

**HOME HEALTH AGENCY QUALITY MEASURES:
LOGISTIC REGRESSION MODELS FOR RISK ADJUSTMENT**

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Home Health Agency Quality Measures: Logistic Regression Models For Risk Adjustment

The purpose of this document is to provide descriptions of the prediction models used to risk adjust outcome rates presented in home health agency outcome-based quality improvement (OBQI) reports. These prediction models replace the prediction models used to risk adjust outcomes based on the OASIS-B1 assessment instrument. Home health agencies began using the new OASIS-C assessment instrument on January 1, 2010. The models presented in this document were developed using OASIS national repository data from assessments submitted between January 1, 2010 and September 30, 2010. A logistic regression model was created to predict outcome results for three utilization outcomes, 22 functional improvement outcomes, 11 functional stabilization outcomes, and 12 potentially avoidable events. Nine of these outcomes (i.e., one utilization, seven functional improvement, and one potentially avoidable event) are publicly reported on Home Health Compare.

Model Development Process

Using the assessment data from January 1, 2010 through September 30, 2010, nearly three million episodes of care were created. This was done by linking the start of care (SOC) or resumption of care (ROC) assessment for a patient with that patient's last assessment (i.e., transfer, discharge, or death). The 48 outcomes were computed based on the episode of care information for each patient. Case mix results for each patient that are reported in the Agency Patient-related Characteristics Report were calculated using these data. Finally, additional risk factors based on each response option level for each OASIS-C item were computed. From this analytic file, two developmental samples of 250,000 episodes of care were randomly selected, along with a validation sample of 1,000,000 episodes of care. Models, with the exception of the Increase in Number of Pressure Ulcers potentially avoidable event which is publicly reported, were created using one of the two developmental samples and validated using the validation sample. Due to the very low incidence rate of the Increase in Number of Pressure Ulcers and the potential for over-fitting the model that would be used for a publicly reported outcome if a smaller sample was used, the validation sample was used to develop this model. Another validation sample was created to provide validation statistics for the Increase in Number of Pressure Ulcers model.

A structured approach was used to develop the initial prediction model for each outcome. Because there were a large number of possible risk factors that needed to be considered for each outcome, the following process was used to identify unique contributing risk factors to the prediction model:

1. The risk factors were divided into six groups with approximately the same number in each group and similar content focus (e.g., ICD9-based conditions)
2. Separate logistic regressions were computed on each of these six risk factor groups and any risk factor with probability $<.200$ was identified for further review.
3. Risk factors with probability $<.200$ from the first three groups were aggregated into a new set of risk factors, as were risk factors with probability <0.200 from the second three groups.

4. An ordinary least squares (OLS) step-wise analysis for each of these two new groups was computed. Those risk factors that were statistically significant at probability <0.01 were combined into a single group.
5. The list of risk factors that achieved the probability <0.01 level were reviewed. If one response option level of an OASIS-C item was on the list, then risk factors representing the other response option levels of that OASIS-C item were added to the list. For example, if response option levels 1 and 2 for M1800 Grooming were statistically significant at probability <0.01 for a particular outcome, then response option level 3 for M1800 Grooming was added to the list.¹
6. A fixed logistic regression was computed on the list of risk factors that had achieved probability <0.01 and the risk factors that were added to the list because they were other response options for OASIS-C items represented on the list. Risk factors were removed if they failed to reach the probability <0.01 level, unless they were a response option for an OASIS-C item where a different response option for the same OASIS-C item did meet the probability<0.01 criterion. This step was repeated until only risk factors that met the criterion remained.
7. Goodness of fit statistics (r^2 , C-statistic, and/or Hosmer-Lemeshow) as well as bivariate correlations between the risk factor and the outcome were computed for how well the predicted values generated by the prediction model were related to the actual outcomes.
8. The initial models for each of the 48 outcome measures were reviewed by a team of at least three experienced home health clinicians. Each risk factor was reviewed for its clinical plausibility in being related to the outcome measure in the direction indicated by the coefficient in the prediction equation and its bivariate relationship. Risk factors that were not clinically plausible were identified for elimination.
9. The risk factors that were deemed not clinically plausible were removed from the prediction model and steps 6 and 7 in this process were repeated. The resulting logistic regression equation was designated as the prediction model for the outcome.
10. The prediction model was applied to the validation sample and goodness of fit statistics were computed. If these statistics were similar to the goodness of fit statistics computed with the development sample, the model become a final model. If the statistics were not similar, then alternative approaches to model building were considered.

Use of Risk Models in Risk-Adjusted Outcome Reports

The risk-adjusted outcome report provided for home health agency outcome-based quality improvement (OBQI) includes, for each outcome measure, the agency's observed (actual) outcome rate and a risk-adjusted national reference rate. The observed agency outcome rate is simply the number of patients who achieved a particular outcome (e.g., improvement in ambulation) divided by the number of patients eligible² for that outcome, for patients whose episode of care ended during the previous 12 months. The national reference rate³ is calculated based on the observed national outcome rate (for the same time period as the agency observed outcome rate), adjusted to reflect case mix differences between the agency's patients and home health patients nationally.

The method used to calculate the national reference rate for a given outcome for each home health agency is as follows:

- A predicted outcome probability is calculated for each patient in the agency, based on the patient's health status and other attributes at admission to home health care, using a statistical model specific to that outcome, as described later in this document.
- Predicted outcome probabilities are averaged across all of the agency's patients eligible for that particular outcome to yield an agency-specific predicted outcome rate.
- Predicted outcome probabilities are averaged across all home health patients in the nation eligible for that particular outcome to yield a national predicted outcome rate.

The National Reference Rate for a specific agency is calculated as:

- $\text{National Observed Rate} + (\text{Agency-Specific Predicted Rate} - \text{National Predicted Rate})$

This method of calculating a risk-adjusted reference rate for home health agencies takes into account variations between agencies in patient case mix, and it provides a means for all agencies to measure their outcomes against a risk-adjusted standard that reflects current national outcome performance.

Reading the Prediction Model Tables

Each table contains the following information:

- **Table Title:** The title identifies the name of the outcome measure model being presented.
- **Risk Factor Measured at SOC/ROC:** This column lists the risk factors included in the prediction model. All risk factors pertain to Start of Care (SOC) or Resumption of Care after inpatient stay (ROC). If applicable, the number of values in the measurement scale for each risk factor is displayed in parentheses. For risk factors that take on the value 0 and 1, the value 1 denotes the presence of the attribute and 0 denotes its absence. For risk factors that pertain to health or functional status and are defined using a scale that takes on more than two values, higher values of the scale typically indicate greater impairment or severity of illness. The meaning associated with specific numeric values for most risk factors can be determined by examining the related OASIS data item(s).
- **Coefficient:** This column is the coefficient for the risk factor in the logistic regression model for the outcome measure. Coefficients are considered significant at probability < 0.05 because of the very large developmental sample used to create the models. Using this significance level and large developmental sample results in more stable models whose performance is superior under cross validation.
- **Odds Ratio:** For a 0-1 risk factor, the odds ratio is the likelihood of the outcome when the risk factor is present divided by the likelihood of the outcome when the risk factor is not present. In general, the odds ratio indicates the strength of relationship between a risk factor and the outcome measure. The larger or smaller an odds ratio is for a

particular risk factor (i.e., >1.00 or <1.00), the more influence the risk factor has on the outcome measure, in a positive or negative direction.

- **95% CI:** These are the 95% confidence limits of the odds ratios in the previous column.
- **Number of Risk Factors:** This is the number of unique risk factors that are used in the logistic regression model for predicting the outcome measure.
- **R²:** The R² value is the squared correlation between predicted and observed values for all patients in the developmental or validation samples. The developmental sample size for all outcomes is 250,000, with some variation in this number depending on patient eligibility for the outcome measure. The validation sample is 1,000,000 for all models. These sample sizes pertain to both R² and the C-statistic.
- **C:** The C-statistic is the area under the Receiver Operating Characteristic curve. Intuitively, it is defined as follows: Let Y=1 denote outcome attainment, Y=0 denote nonattainment, and \hat{p} denote the predicted probability that Y=1. Enumerate all possible pairs of sample patients for whom Y=1 for the first patient and Y=0 for the second patient. C is the proportion of such pairs where \hat{p} for the patient with Y=1 is larger than \hat{p} for the patient with Y=0.
- **Hosmer-Lemeshow:** The Hosmer-Lemeshow statistic is used for low frequency outcomes (i.e., the potentially avoidable events) to assess the quality of the prediction model. For low frequency events, the R² statistics is not a good indicator of model fit. The Hosmer-Lemeshow statistic divides the predicted values into 10 equal size groups and then identifies the frequency of observed outcomes in each of these 10 groups. Using a Chi-Square test, the statistic tests the hypothesis of an equal frequency across the 10 groups. If the frequencies are not evenly distributed—as would be expected if the prediction model generated higher predicted values that were more associated with the outcome occurring and lower predicted values that were associated with the outcome not occurring, then the Chi-Square value would be statistically significant—and the prediction model would be judged to be useful in predicting the outcome.

Utility of Specific Risk Models

The predictive models for outcomes demonstrated the wide range of strength of relationship (i.e., the amount of variance in the observed outcomes predicted by the variance in the independent variables used to create the predictive model for the observed values) between the predictive models and their associated observed outcome values. Similarly, the predictive power of a model, as measured by the C-statistic, also varied by outcome. Predictive models that met either or both of the following criteria — R² ≥ 0.10 ; C-stat ≥ 0.70 — were deemed to have adequate risk adjustment when applied to their outcome measures. For all of the potentially avoidable event outcomes, the C-statistic and the Hosmer-Lemeshow statistic either met the criterion or were statistically significant.

Notes:

- ¹ A. Agresti discusses the question about how to treat categorical variables. His guidance regarding how to treat categorical variables in stepwise model selection is very clear. Basically, Agresti emphasizes the importance of including or excluding entire categorical variables at each stage of model selection rather than just individual indicator variables. The relevant section is 5.1.3 on pages 139 and 140. Agresti, Alan. An Introduction to Categorical Analysis, Second Edition, John Wiley & Sons, Inc., 2007.
- ² Patients are eligible for an outcome measuring 'improvement' if the patient was not fully independent on the baseline variable at the Start or Resumption of Care. Patients are eligible for an outcome measuring 'stabilization' if the patient was not fully dependent on the baseline variable at the Start or Resumption of Care.
- ³ The method used currently to calculate an agency-specific national reference rate for OBQI reports differs from the method used during the national OBQI demonstration, which is described in the body of the paper for which this document is an appendix. For the demonstration, models were estimated using a reference sample of patient episodes from the same time period as that covered by agency reports, and the agency's predicted outcome rate was reported as the agency-specific reference rate. The current method takes into account any differences in case mix or outcome performance that may exist between the sample used to estimate risk model parameters and the current national population of home health patients. This was not necessary during the demonstration because the reference population and the sample used for risk model estimation were essentially one and the same.

Table 1: Improvement in Ambulation / Locomotion

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Acute condition: Urinary incontinence	-0.246	0.782	(0.735-0.832)
Acute condition: Oxygen therapy	-0.181	0.835	(0.802-0.869)
Acute condition: Open wound/lesion	-0.157	0.855	(0.802-0.911)
Anxiety: Less often than daily	0.026 ^b	1.027	(0.996-1.058)
Anxiety: Daily, but not constantly	0.108	1.114	(1.074-1.156)
Anxiety: All of the time	0.202	1.223	(1.096-1.365)
Bathing: With the use of devices in shower/tub	-0.110 ^a	0.896	(0.822-0.976)
Bathing: With intermittent assistance in shower/tub	-0.138	0.871	(0.799-0.949)
Bathing: Participates with supervision in shower/tub	-0.314	0.731	(0.669-0.799)
Bathing: Independent at sink, in chair, or on commode	-0.226	0.798	(0.727-0.876)
Bathing: Participates with assist at sink, in chair, or commode	-0.331	0.718	(0.653-0.790)
Bathing: Unable to participate; bathed totally by another	-0.439	0.645	(0.572-0.727)
Chronic Conditions: Chronic patient with caregiver	-0.074	0.929	(0.897-0.961)
Chronic Conditions: Urinary incontinence or catheter	-0.300	0.741	(0.699-0.785)
Chronic Conditions: Impaired ambulation/mobility	0.180	1.197	(1.140-1.257)
Start of Care-Further visits planned	0.133	1.142	(1.091-1.195)
Patient is male	-0.164	0.849	(0.825-0.873)
Home Care Diagnosis: Digestive system diseases	0.099	1.104	(1.060-1.151)
Home Care Diagnosis: Endocrine/nutritional/metabolic	-0.053	0.949	(0.923-0.975)
Home Care Diagnosis: Genitourinary system diseases	-0.087	0.917	(0.879-0.957)
Home Care Diagnosis: Ill-defined conditions	-0.100	0.905	(0.880-0.930)
Home Care Diagnosis: Neoplasms	-0.094	0.911	(0.862-0.962)
Home Care Diagnosis: Nervous system diseases	-0.122	0.885	(0.856-0.916)
Home Care Diagnosis: Skin/subcutaneous diseases	-0.241	0.786	(0.742-0.832)
Hearing: Mildly to moderately impaired	-0.086	0.918	(0.892-0.945)
Hearing: Severely impaired	-0.096 ^b	0.908	(0.813-1.015)
Discharged from inpatient setting within past 14 days	0.327	1.387	(1.343-1.432)
Discharged from long-term nursing facility (NF) past 14 days	-0.211	0.810	(0.726-0.903)
Ability to Dress Lower Body: Needs clothing/shoes laid out	0.142	1.153	(1.102-1.206)
Ability to Dress Lower Body: Assist needed putting on clothing	0.059 ^a	1.061	(1.013-1.111)
Ability to Dress Lower Body: Entirely dependent upon someone else	0.004 ^c	1.004	(0.934-1.080)
Lives in congregate situation with around the clock assistance	-0.340	0.712	(0.673-0.753)
Lives with other person(s) with around the clock assistance	0.086	1.089	(1.055-1.125)
Lives with other person(s) with occasional/short term assistance	0.085 ^a	1.089	(1.002-1.183)
Medication Assistance: Caregiver training/support needed	0.215	1.240	(1.175-1.309)
Meal prep: Unable to plan/prepare light meals	0.114	1.121	(1.081-1.163)
Meal prep: Unable to reheat delivered meals	0.038 ^c	1.039	(0.992-1.088)
Change in medical or treatment regimen in past 14 days	0.193	1.212	(1.162-1.264)
Ambulation/Locomotion: Two-handed device/human assist on steps	0.554	1.740	(1.670-1.814)
Ambulation/Locomotion: Walks only with supervision or assist	2.452	11.607	(10.978-12.273)

Table 1: Improvement in Ambulation / Locomotion (continued)

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Ambulation/Locomotion: Chairfast or bedfast	1.925	6.855	(6.348-7.403)
Frequency of Disruptive Behavior: Once a month or less	0.119	1.127	(1.037-1.224)
Frequency of Disruptive Behavior: Several times a month	0.035 ^c	1.035	(0.948-1.130)
Frequency of Disruptive Behavior: Several times a week	0.120	1.127	(1.050-1.209)
Frequency of Disruptive Behavior: At least once daily	0.096	1.101	(1.048-1.156)
Dyspnea: Walking more than 20 feet, climbing stairs	0.118	1.125	(1.088-1.164)
Dyspnea: Moderate exertion	0.147	1.159	(1.118-1.201)
Dyspnea: Minimal to no exertion	0.200	1.221	(1.164-1.281)
Eating: Requires set up, intermittent assist or modified consistency	0.050	1.051	(1.020-1.084)
Eating: Unable to feed self and must be assisted throughout meal	-0.033 ^c	0.968	(0.885-1.058)
Eating: Requires tube feedings, or no nutrients orally or via tube	-0.038 ^c	0.963	(0.815-1.137)
Urinary Incontinence: Occasional stress incontinence	0.135	1.145	(1.074-1.220)
Urinary Incontinence: Day or night	0.130	1.139	(1.045-1.241)
Urinary Incontinence: Day and night	0.011 ^c	1.011	(0.954-1.071)
Difficulty in Speech: Minimal	-0.067	0.935	(0.905-0.967)
Difficulty in Speech: Moderate	-0.038 ^c	0.963	(0.903-1.027)
Difficulty in Speech: Severe to nonresponsive	-0.134	0.874	(0.793-0.964)
Toilet Transferring: To/from/on/off toilet with human assist	0.201	1.223	(1.179-1.268)
Toilet Transferring: Able to self-transfer to bedside commode	0.209	1.232	(1.154-1.316)
Toilet Transferring: Unable to transfer to/from toilet or commode	0.167	1.182	(1.071-1.304)
Transferring: With minimal human assist or with device	-0.345	0.708	(0.679-0.738)
Transferring: Bears weight and pivots only	-0.334	0.716	(0.672-0.763)
Transferring: Unable or bedfast	-0.314	0.731	(0.661-0.807)
Patient Overall Status: Temporary high health risk	0.101	1.107	(1.069-1.145)
Patient Overall Status: Fragile health	-0.049 ^a	0.952	(0.913-0.993)
Patient Overall Status: Serious progressive conditions	-0.239	0.788	(0.729-0.851)
Management of Oral Meds: Advance dose prep/chart needed	-0.021 ^c	0.979	(0.942-1.018)
Management of Oral Meds: Reminders needed	-0.049 ^b	0.952	(0.902-1.004)
Management of Oral Meds: Unable	-0.232	0.793	(0.743-0.846)
Prior Functioning: Needed assistance with ambulation	-0.366	0.693	(0.667-0.720)
Prior Functioning: Needed assistance with household tasks	-0.223	0.800	(0.781-0.819)
Prior Management of Oral Meds: Needed assistance	-0.094	0.911	(0.884-0.938)
Use of Telephone: Able to use specially adapted telephone	0.009 ^c	1.009	(0.961-1.060)
Use of Telephone: Able to answer but difficulty placing calls	-0.067 ^a	0.935	(0.887-0.986)
Use of Telephone: Limited ability to answer or converse	-0.017 ^c	0.983	(0.927-1.043)
Use of Telephone: Unable to answer but listens with assistance	-0.258	0.773	(0.710-0.841)
Use of Telephone: Totally unable	-0.304	0.738	(0.675-0.807)
Pressure ulcer assessment indicates risk	-0.290	0.748	(0.723-0.774)
Pressure Ulcer Present: Total Number Stage II or higher	-0.066 ^a	0.936	(0.887-0.988)

Table 1: Improvement in Ambulation / Locomotion (continued)

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Risk for Hospitalization: History of falls	-0.169	0.844	(0.820-0.869)
Risk for Hospitalization: Two or more hospitalizations past year	-0.088	0.916	(0.888-0.945)
Supervision and Safety Assistance: None needed	-0.107	0.899	(0.851-0.950)
Supervision and Safety Assistance: Caregiver currently provides	-0.099	0.905	(0.860-0.953)
Status of Surgical Wound: Fully granulating	0.288	1.334	(1.254-1.418)
Status of Surgical Wound: Early/partial granulation	0.578	1.783	(1.709-1.860)
Status of Surgical Wound: Not healing	0.657	1.929	(1.802-2.066)
Number of therapy visits: 1-2	0.021 ^c	1.021	(0.969-1.075)
Number of therapy visits: 3-4	-0.052 ^c	0.949	(0.886-1.018)
Number of therapy visits: 5-6	0.047 ^a	1.049	(1.001-1.099)
Number of therapy visits: 7-8	0.106	1.112	(1.062-1.164)
Number of therapy visits: 9-10	0.125	1.133	(1.082-1.187)
Number of therapy visits: 11-12	0.169	1.184	(1.127-1.244)
Number of therapy visits: 13-14	0.167	1.182	(1.121-1.246)
Number of therapy visits: 15-16	0.130	1.139	(1.072-1.210)
Number of therapy visits: 17-18	0.176	1.193	(1.108-1.283)
Number of therapy visits: 19-20	0.140	1.150	(1.058-1.251)
Episode Timing: Early	0.261	1.298	(1.233-1.367)
Toilet Hygiene Assistance: Needs supplies laid out	0.089	1.093	(1.053-1.134)
Toilet Hygiene Assistance: Needs assistance	-0.037 ^c	0.964	(0.917-1.013)
Toilet Hygiene Assistance: Entirely dependent	-0.202	0.817	(0.739-0.903)
Vision: Partially impaired	-0.071	0.931	(0.901-0.962)
Vision: Severely impaired	-0.168	0.845	(0.763-0.936)
Constant	-0.359	0.698	

Number of Risk Factors: 59

Developmental Sample R² = 0.069

Developmental Sample C-statistic = 0.651

Validation Sample R² = 0.066

Validation Sample C-statistic = 0.648

¹ SOC = Start of Care, ROC = Resumption of Care after inpatient stay. Risk factors values are based on SOC/ROC assessment values for the episode of care.

² Most risk factors take on the values 0 and 1; 1 denotes the presence of the attribute and 0 denotes its absence. In virtually all cases, each response option for an OASIS item is a risk factor. In a small number of cases (e.g., number of pressure ulcers at Stage III), the actual number provided in the assessment is used.

³ Because all response option values for an OASIS item are included as risk factors in a model even if only one option value is statistically significant, the following superscripts are used to denote the statistical significance for each risk factor coefficient:

- Blank = significant at probability<.01
- a = significant at 0.01<probability<.05
- b = significant at 0.05<probability<.10
- c = not significant, probability>.10

Table 2: Improvement in Anxiety Level

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Acute condition: Cardiac/peripheral vascular	0.097	1.102	(1.062-1.143)
Acute condition: Oxygen therapy	-0.217	0.805	(0.766-0.845)
Acute condition: Orthopedic	0.043 ^a	1.044	(1.003-1.088)
Anxiety: Daily, but not constantly	0.823	2.278	(2.192-2.367)
Anxiety: All of the time	1.754	5.780	(5.108-6.541)
Frequency of ADL /IADL Assistance: At least daily	0.120 ^a	1.128	(1.020-1.247)
Frequency of ADL /IADL Assistance: Three or more times per week	0.048 ^c	1.049	(0.937-1.174)
Frequency of ADL/IADL Assistance: One or two times per week	0.027 ^c	1.028	(0.909-1.162)
Frequency of ADL /IADL Assistance: Received less than weekly	0.056 ^c	1.057	(0.904-1.237)
Chronic Conditions: Dependence in medication administration	-0.117	0.889	(0.852-0.929)
Patient is male	-0.176	0.839	(0.807-0.872)
Home Care Diagnosis: Mental diseases	-0.191	0.826	(0.790-0.864)
Discharged from inpatient setting within past 14 days	0.087	1.091	(1.046-1.138)
Ability to Dress Lower Body: Needs clothing/shoes laid out	0.092	1.097	(1.032-1.166)
Ability to Dress Lower Body: Assist needed putting on clothing	0.085	1.089	(1.025-1.156)
Ability to Dress Lower Body: Entirely dependent upon someone else	0.091 ^a	1.096	(1.001-1.199)
Lives in congregate situation with around the clock assistance	-0.11	0.896	(0.841-0.955)
Urinary incontinence/catheter: Incontinent	-0.025 ^c	0.976	(0.938-1.015)
Urinary incontinence/catheter: Catheter	-0.115 ^a	0.891	(0.801-0.991)
Medication Assistance: Caregiver training/support needed	0.183	1.201	(1.128-1.278)
Ambulation/Locomotion: One-handed device on all surfaces	0.102 ^a	1.107	(1.019-1.203)
Ambulation/Locomotion: Two-handed device/human assist on steps	0.103 ^a	1.108	(1.021-1.203)
Ambulation/Locomotion: Walks only with supervision or assist	0.034 ^c	1.035	(0.943-1.135)
Ambulation/Locomotion: Chairfast or bedfast	-0.137 ^a	0.872	(0.773-0.984)
Frequency of Disruptive Behavior: Once a month or less	-0.022 ^c	0.979	(0.892-1.074)
Frequency of Disruptive Behavior: Several times a month	-0.099 ^a	0.906	(0.821-1.000)
Frequency of Disruptive Behavior: Several times a week	-0.036 ^c	0.965	(0.889-1.046)
Frequency of Disruptive Behavior: At least once daily	-0.083	0.921	(0.867-0.978)
Confused: In new or complex situations	-0.152	0.859	(0.822-0.898)
Confused: Sometimes	-0.224	0.800	(0.747-0.856)
Confused: Constantly	-0.335	0.715	(0.627-0.816)
Difficulty in Speech: Minimal	-0.107	0.898	(0.860-0.938)
Difficulty in Speech: Moderate	-0.161	0.851	(0.787-0.921)
Difficulty in Speech: Severe to nonresponsive	-0.353	0.703	(0.620-0.796)
Toilet Transferring: To/from/on/off toilet with human assist	0.123	1.131	(1.079-1.186)
Toilet Transferring: Able to self-transfer to bedside commode	0.141	1.152	(1.058-1.254)
Toilet Transferring: Unable to transfer to/from toilet or commode	0.033 ^c	1.034	(0.916-1.166)
Transferring: With minimal human assist or with device	-0.010 ^c	0.990	(0.931-1.053)
Transferring: Bears weight and pivots only	0.093 ^a	1.097	(1.006-1.197)

Table 2: Improvement in Anxiety Level (continued)

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Patient Overall Status: Temporary high health risk	0.152	1.164	(1.104-1.228)
Transferring: Unable or bedfast	0.158 ^a	1.171	(1.023-1.339)
Patient Overall Status: Fragile health	0.082	1.085	(1.022-1.153)
Patient Overall Status: Serious progressive conditions	-0.125 ^a	0.883	(0.802-0.972)
Prior Functioning: Needed assistance with household tasks	-0.076	0.927	(0.900-0.954)
Conditions Prior to Treatment: Impaired decision making	-0.085	0.919	(0.874-0.966)
Frequency of Pain: Pain does not interfere with activity	0.029 ^c	1.029	(0.961-1.103)
Frequency of Pain: Less often than daily	-0.022 ^c	0.978	(0.916-1.045)
Frequency of Pain: Daily, but not constant	-0.09	0.914	(0.871-0.960)
Frequency of Pain: Constant	-0.227	0.797	(0.747-0.850)
PHQ-2 Depression: Several days in past 2 weeks	-0.188	0.828	(0.794-0.864)
PHQ-2 Depression: More than half of days in past 2 weeks	-0.259	0.771	(0.713-0.834)
PHQ-2 Depression: Nearly every day in past 2 weeks	-0.382	0.682	(0.626-0.744)
Surgical Wound Present	0.179	1.196	(1.106-1.294)
Status of Surgical Wound: Fully granulating	-0.029 ^c	0.971	(0.867-1.088)
Status of Surgical Wound: Early/partial granulation	0.118	1.125	(1.029-1.231)
Status of Surgical Wound: Not healing	0.088 ^c	1.092	(0.976-1.222)
Therapy Amounts: Low	0.102	1.108	(1.041-1.179)
Therapy Amounts: Medium	0.236	1.266	(1.208-1.327)
Therapy Amounts: High	0.221	1.247	(1.180-1.318)
Constant	-0.094 ^c	0.910	

Number of Risk Factors: 59

Developmental Sample R² = 0.069

Developmental Sample C-statistic = 0.651

Validation Sample R² = 0.066

Validation Sample C-statistic = 0.648

¹ SOC = Start of Care, ROC = Resumption of Care after inpatient stay. Risk factors values are based on SOC/ROC assessment values for the episode of care.

² Most risk factors take on the values 0 and 1; 1 denotes the presence of the attribute and 0 denotes its absence. In virtually all cases, each response option for an OASIS item is a risk factor. In a small number of cases (e.g., number of pressure ulcers at Stage III), the actual number provided in the assessment is used.

³ Because all response option values for an OASIS item are included as risk factors in a model even if only one option value is statistically significant, the following superscripts are used to denote the statistical significance for each risk factor coefficient:

Blank = significant at probability<.01

a = significant at 0.01<probability<.05

b = significant at 0.05<probability<.10

c = not significant, probability>.10

Table 3: Improvement in Bathing

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Acute condition: Cardiac/peripheral vascular	0.054	1.055	(1.024-1.087)
Acute condition: Urinary incontinence	-0.164	0.849	(0.794-0.906)
Acute condition: Oxygen therapy	-0.205	0.815	(0.777-0.854)
Acute condition: Orthopedic	0.091	1.095	(1.061-1.131)
Acute condition: Open wound/lesion	-0.072 ^a	0.930	(0.869-0.996)
ADL Assistance: Caregiver provides	-0.076	0.926	(0.894-0.960)
Anxiety: Less often than daily	-0.006 ^c	0.994	(0.961-1.029)
Anxiety: Daily, but not constantly	0.030 ^c	1.031	(0.990-1.074)
Anxiety: All of the time	0.205	1.228	(1.090-1.382)
Bathing: With intermittent assistance in shower/tub	1.396	4.040	(3.855-4.233)
Bathing: Participates with supervision in shower/tub	2.209	9.107	(8.583-9.663)
Bathing: Independent at sink, in chair, or on commode	2.373	10.730	(10.008-11.504)
Bathing: Participates with assist at sink, in chair, or commode	3.020	20.482	(18.993-22.087)
Bathing: Unable to participate; bathed totally by another	3.648	38.387	(34.184-43.107)
Chronic Conditions: Chronic patient with caregiver	-0.129	0.879	(0.849-0.910)
Chronic Conditions: Urinary incontinence or catheter	-0.186	0.830	(0.780-0.883)
Chronic Conditions: Dependence in living skills	-0.099	0.906	(0.847-0.968)
Chronic Conditions: Chronic Pain	0.068	1.071	(1.020-1.124)
Chronic Conditions: Dependence in personal care	-0.193	0.825	(0.785-0.866)
Start of Care-Further visits planned	0.168	1.182	(1.129-1.239)
Management of Equipment: Caregiver currently provides	-0.050 ^a	0.952	(0.912-0.992)
Assessment indicates risk for falls	-0.119	0.887	(0.855-0.921)
Patient is male	-0.093	0.911	(0.884-0.939)
Grooming: Grooming utensils must be placed within reach	0.015 ^c	1.015	(0.970-1.062)
Grooming: Assistance needed	-0.023 ^c	0.977	(0.921-1.037)
Grooming: Entirely dependent upon someone else	-0.130 ^a	0.878	(0.778-0.990)
Home Care Diagnosis: Genitourinary system diseases	-0.073	0.929	(0.888-0.972)
Home Care Diagnosis: Nervous system diseases	-0.148	0.862	(0.831-0.894)
Home Care Diagnosis: Skin/subcutaneous diseases	-0.173	0.841	(0.790-0.895)
IADL Assistance: None needed	0.191	1.211	(1.109-1.321)
Discharged from inpatient setting within past 14 days	0.286	1.332	(1.287-1.378)
Ability to Dress Lower Body: Needs clothing/shoes laid out	0.162	1.175	(1.102-1.254)
Ability to Dress Lower Body: Assist needed putting on clothing	0.123	1.131	(1.062-1.205)
Ability to Dress Lower Body: Entirely dependent upon someone else	0.108 ^a	1.114	(1.013-1.224)
Lives in congregate situation with around the clock assistance	-0.156	0.855	(0.812-0.902)
Medication Assistance: Caregiver training/support needed	0.221	1.247	(1.173-1.327)
Meal prep: Unable to plan/prepare light meals	-0.012 ^c	0.988	(0.948-1.029)
Meal prep: Unable to reheat delivered meals	-0.097	0.907	(0.845-0.974)
Behavioral: Memory deficit	0.091	1.095	(1.043-1.150)
Age: 18-64	-0.079	0.924	(0.879-0.972)

Table 3: Improvement in Bathing (continued)

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Age: 75-84	-0.119	0.887	(0.855-0.921)
Age: 85 and over	-0.331	0.718	(0.689-0.748)
Ambulation/Locomotion: One-handed device on all surfaces	-0.158	0.854	(0.795-0.917)
Ambulation/Locomotion: Two-handed device/human assist on steps	-0.376	0.686	(0.639-0.737)
Ambulation/Locomotion: Walks only with supervision or assist	-0.407	0.666	(0.615-0.721)
Ambulation/Locomotion: Chairfast or bedfast	-1.126	0.324	(0.293-0.359)
Bowel Incontinence Frequency: Less than once a week	-0.044 ^c	0.957	(0.892-1.026)
Bowel Incontinence Frequency: One to three times a week	-0.036 ^c	0.965	(0.899-1.035)
Bowel Incontinence Frequency: Four to six times a week or more	-0.136	0.873	(0.808-0.944)
Confused: In new or complex situations	-0.044 ^a	0.957	(0.923-0.992)
Confused: Sometimes	-0.172	0.842	(0.793-0.893)
Confused: Constantly	-0.388	0.678	(0.608-0.756)
Dyspnea: Walking more than 20 feet, climbing stairs	0.039 ^a	1.040	(1.002-1.080)
Dyspnea: Moderate exertion	0.107	1.113	(1.070-1.157)
Dyspnea: Minimal to no exertion	0.133	1.142	(1.084-1.203)
Eating: Requires set up, intermittent assist or modified consistency	0.058	1.060	(1.025-1.096)
Eating: Unable to feed self and must be assisted throughout meal	-0.048 ^c	0.953	(0.866-1.049)
Eating: Requires tube feedings, or no nutrients orally or via tube	-0.218 ^a	0.804	(0.675-0.958)
Urinary Incontinence: Occasional stress incontinence	0.096	1.101	(1.028-1.179)
Urinary Incontinence: Day or night	0.077 ^b	1.081	(0.985-1.185)
Urinary Incontinence: Day and night	-0.042 ^c	0.959	(0.901-1.020)
Difficulty in Speech: Minimal	-0.075	0.927	(0.894-0.962)
Difficulty in Speech: Moderate	-0.044 ^c	0.957	(0.894-1.024)
Difficulty in Speech: Severe to nonresponsive	-0.234	0.791	(0.712-0.879)
Toilet Transferring: To/from/on/off toilet with human assist	0.155	1.167	(1.121-1.215)
Toilet Transferring: Able to self-transfer to bedside commode	0.148	1.160	(1.079-1.246)
Toilet Transferring: Unable to transfer to/from toilet or commode	0.093 ^b	1.098	(0.984-1.224)
Transferring: With minimal human assist or with device	-0.052 ^a	0.949	(0.906-0.995)
Transferring: Bears weight and pivots only	0.002 ^c	1.002	(0.935-1.074)
Transferring: Unable or bedfast	-0.103 ^b	0.902	(0.810-1.004)
Patient Overall Status: Temporary high health risk	0.124	1.132	(1.090-1.176)
Patient Overall Status: Fragile health	-0.095	0.910	(0.869-0.952)
Patient Overall Status: Serious progressive conditions	-0.386	0.680	(0.628-0.736)
Management of Oral Meds: Advance dose prep/chart needed	-0.022 ^c	0.978	(0.937-1.022)
Management of Oral Meds: Reminders needed	-0.106	0.899	(0.848-0.953)
Management of Oral Meds: Unable	-0.280	0.756	(0.705-0.811)
Prior Functioning: Needed assistance with ambulation	-0.178	0.837	(0.812-0.862)
Conditions Prior to Treatment: Severe memory loss	-0.105	0.900	(0.853-0.950)
Prior Management of Oral Meds: Needed assistance	-0.190	0.827	(0.801-0.854)
Frequency of Pain: Pain does not interfere with activity	0.063 ^a	1.065	(1.012-1.120)

Table 3: Improvement in Bathing (continued)

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Frequency of Pain: Less often than daily	0.048 ^b	1.050	(0.998-1.104)
Frequency of Pain: Daily, but not constant	0.102	1.107	(1.067-1.149)
Frequency of Pain: Constant	0.012 ^c	1.012	(0.956-1.071)
Payment Source: All Medicaid	-0.143	0.867	(0.815-0.923)
Use of Telephone: Able to use specially adapted telephone	0.044 ^b	1.045	(0.992-1.101)
Use of Telephone: Able to answer but difficulty placing calls	-0.104	0.902	(0.854-0.952)
Use of Telephone: Limited ability to answer or converse	-0.121	0.886	(0.830-0.946)
Use of Telephone: Unable to answer but listens with assistance	-0.352	0.704	(0.643-0.770)
Use of Telephone: Totally unable	-0.388	0.679	(0.617-0.746)
Pressure Ulcer Present: Total Number Stage II or higher	-0.152	0.859	(0.809-0.912)
Supervision and Safety Assistance: Caregiver training needed	0.089 ^a	1.093	(1.019-1.172)
Status of Surgical Wound (0-3)	0.183	1.201	(1.169-1.234)
Status of Surgical Wound: Fully granulating	0.174	1.190	(1.104-1.283)
Status of Surgical Wound: Early/partial granulation	0.185	1.203	(1.123-1.289)
Status of Stasis Ulcer: Fully granulating	-0.310 ^c	0.733	(0.452-1.191)
Status of Stasis Ulcer: Early/partial granulation	-0.278	0.757	(0.624-0.919)
Status of Stasis Ulcer: Not healing	-0.112 ^c	0.894	(0.758-1.054)
Number of therapy visits: 1-2	-0.064 ^a	0.938	(0.887-0.992)
Number of therapy visits: 3-4	-0.015 ^c	0.985	(0.913-1.063)
Number of therapy visits: 5-6	0.124	1.131	(1.074-1.192)
Number of therapy visits: 7-8	0.263	1.301	(1.236-1.370)
Number of therapy visits: 9-10	0.272	1.313	(1.245-1.383)
Number of therapy visits: 11-12	0.304	1.355	(1.282-1.433)
Number of therapy visits: 13-14	0.346	1.414	(1.332-1.501)
Number of therapy visits: 15-16	0.324	1.382	(1.292-1.480)
Number of therapy visits: 17-18	0.287	1.332	(1.228-1.445)
Number of therapy visits: 19-20	0.332	1.394	(1.271-1.529)
Episode Timing: Early	0.197	1.218	(1.153-1.287)
Toilet Hygiene Assistance: Needs supplies laid out	0.075	1.078	(1.033-1.124)
Toilet Hygiene Assistance: Needs assistance	-0.099	0.906	(0.857-0.957)
Toilet Hygiene Assistance: Entirely dependent	-0.305	0.737	(0.659-0.825)
Ability to Dress Upper Body: Needs clothing laid out	-0.039 ^c	0.962	(0.905-1.022)
Ability to Dress Upper Body: Needs assistance putting on clothing	-0.177	0.838	(0.782-0.897)
Ability to Dress Upper Body: Entirely dependent upon someone else	-0.283	0.754	(0.662-0.859)
Constant	-0.579	0.560	

Number of Risk Factors: 99
 Developmental Sample R² = 0.211
 Developmental Sample C-statistic = 0.757

Validation Sample R² = 0.208
 Validation Sample C-statistic = 0.773

Table 3: Improvement in Bathing (continued)

¹ SOC = Start of Care, ROC = Resumption of Care after inpatient stay. Risk factors values are based on SOC/ROC assessment values for the episode of care.

² Most risk factors take on the values 0 and 1; 1 denotes the presence of the attribute and 0 denotes its absence. In virtually all cases, each response option for an OASIS item is a risk factor. In a small number of cases (e.g., number of pressure ulcers at Stage III), the actual number provided in the assessment is used.

³ Because all response option values for an OASIS item are included as risk factors in a model even if only one option value is statistically significant, the following superscripts are used to denote the statistical significance for each risk factor coefficient:

- Blank = significant at probability<.01
- a = significant at 0.01<probability<.05
- b = significant at 0.05<probability<.10
- c = not significant, probability>.10

Table 4: Improvement in Bed Transferring

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Acute condition: Urinary incontinence	-0.158	0.854	(0.799-0.913)
Acute condition: Oxygen therapy	-0.081	0.922	(0.885-0.960)
Acute condition: Orthopedic	0.058	1.060	(1.027-1.094)
Acute condition: Open wound/lesion	-0.155	0.856	(0.797-0.919)
ADL Assistance: Caregiver training/support needed	0.092	1.096	(1.046-1.149)
Anxiety: Less often than daily	0.019 ^c	1.019	(0.986-1.054)
Anxiety: Daily, but not constantly	0.118	1.125	(1.080-1.172)
Anxiety: All of the time	0.164	1.178	(1.043-1.330)
Bathing: With the use of devices in shower/tub	-0.135 ^a	0.873	(0.771-0.989)
Bathing: With intermittent assistance in shower/tub	-0.113 ^b	0.893	(0.789-1.011)
Bathing: Participates with supervision in shower/tub	-0.180	0.835	(0.736-0.947)
Bathing: Independent at sink, in chair, or on commode	-0.101 ^c	0.904	(0.794-1.029)
Bathing: Participates with assist at sink, in chair, or commode	-0.142 ^a	0.868	(0.761-0.989)
Bathing: Unable to participate; bathed totally by another	-0.341	0.711	(0.607-0.832)
Chronic Conditions: Urinary incontinence or catheter	-0.253	0.776	(0.730-0.826)
Chronic Conditions: Dependence in medication administration	-0.137	0.872	(0.834-0.911)
Chronic Conditions: Impaired ambulation/mobility	-0.128	0.880	(0.845-0.916)
Start of Care-Further visits planned	0.263	1.301	(1.239-1.365)
Home Care Diagnosis: Circulatory system diseases	-0.034 ^a	0.967	(0.937-0.997)
Home Care Diagnosis: Endocrine/nutritional/metabolic	-0.059	0.943	(0.915-0.972)
Home Care Diagnosis: Genitourinary system diseases	-0.062	0.940	(0.898-0.985)
Home Care Diagnosis: Nervous system diseases	-0.148	0.863	(0.831-0.896)
Home Care Diagnosis: Skin/subcutaneous diseases	-0.154	0.858	(0.804-0.915)
Hearing: Mildly to moderately impaired	-0.055	0.947	(0.918-0.977)
Hearing: Severely impaired	-0.200	0.819	(0.724-0.927)
Discharged from inpatient setting within past 14 days	0.299	1.349	(1.303-1.396)
Ability to Dress Lower Body: Needs clothing/shoes laid out	0.099	1.104	(1.033-1.180)
Ability to Dress Lower Body: Assist needed putting on clothing	-0.014 ^c	0.986	(0.925-1.052)
Ability to Dress Lower Body: Entirely dependent upon someone else	-0.081 ^b	0.922	(0.840-1.013)
Lives in congregate situation with around the clock assistance	-0.107	0.899	(0.850-0.950)
Meal prep: Unable to plan/prepare light meals	0.058	1.060	(1.018-1.103)
Meal prep: Unable to reheat delivered meals	0.032 ^c	1.032	(0.983-1.084)
Change in medical or treatment regimen in past 14 days	0.193	1.213	(1.157-1.272)
Ambulation/Locomotion: One-handed device on all surfaces	-0.531	0.588	(0.519-0.666)
Ambulation/Locomotion: Two-handed device/human assist on steps	-0.796	0.451	(0.398-0.512)
Ambulation/Locomotion: Walks only with supervision or assist	-0.713	0.490	(0.430-0.558)
Ambulation/Locomotion: Chairfast or bedfast	-1.598	0.202	(0.175-0.234)
Frequency of Disruptive Behavior: Once a month or less	-0.008 ^c	0.992	(0.907-1.086)
Frequency of Disruptive Behavior: Several times a month	-0.113 ^a	0.893	(0.813-0.981)
Frequency of Disruptive Behavior: Several times a week	0.031 ^c	1.032	(0.957-1.113)

Table 4: Improvement in Bed Transferring (continued)

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Frequency of Disruptive Behavior: At least once daily	0.026 ^c	1.026	(0.973-1.082)
Urinary Incontinence: Occasional stress incontinence	0.094	1.099	(1.026-1.177)
Urinary Incontinence: Day or night	0.086 ^b	1.090	(0.993-1.196)
Urinary Incontinence: Day and night	-0.052 ^c	0.949	(0.891-1.011)
Difficulty in Speech: Minimal	-0.081	0.922	(0.890-0.955)
Difficulty in Speech: Moderate	-0.032 ^c	0.969	(0.903-1.039)
Difficulty in Speech: Severe to nonresponsive	-0.003 ^c	0.997	(0.889-1.119)
Toilet Transferring: To/from/on/off toilet with human assist	0.074	1.077	(1.038-1.118)
Toilet Transferring: Able to self-transfer to bedside commode	-0.062 ^b	0.940	(0.875-1.009)
Toilet Transferring: Unable to transfer to/from toilet or commode	-0.358	0.699	(0.625-0.782)
Transferring: Bears weight and pivots only	2.483	11.972	(11.264-12.724)
Transferring: Unable to bear weight	3.095	22.091	(19.632-24.858)
Transferring: Bedfast, but able to reposition in bed	3.244	25.643	(20.361-32.296)
Transferring: Bedfast	3.342	28.276	(23.220-34.434)
Patient Overall Status: Temporary high health risk	0.051	1.052	(1.013-1.093)
Patient Overall Status: Fragile health	-0.038 ^c	0.963	(0.919-1.008)
Patient Overall Status: Serious progressive conditions	-0.244	0.783	(0.721-0.852)
Management of Oral Meds: Advance dose prep/chart needed	0.014 ^c	1.014	(0.969-1.061)
Management of Oral Meds: Reminders needed	-0.008 ^c	0.992	(0.935-1.052)
Management of Oral Meds: Unable	-0.111	0.895	(0.840-0.954)
Prior Functioning: Needed assistance with household tasks	-0.147	0.864	(0.840-0.887)
Prior Functioning: Needed assistance with self care	-0.181	0.834	(0.805-0.864)
Payment Source: Any other	0.076 ^a	1.079	(1.017-1.144)
Use of Telephone: Able to use specially adapted telephone	-0.086	0.917	(0.871-0.966)
Use of Telephone: Able to answer but difficulty placing calls	-0.124	0.883	(0.835-0.934)
Use of Telephone: Limited ability to answer or converse	-0.057 ^b	0.944	(0.887-1.005)
Use of Telephone: Unable to answer but listens with assistance	-0.299	0.742	(0.676-0.814)
Use of Telephone: Totally unable	-0.254	0.776	(0.702-0.858)
PHQ-2 Loss of Interest: Several days in past 2 weeks	-0.050 ^a	0.951	(0.914-0.991)
PHQ-2 Loss of Interest: More than half of days in past 2 weeks	-0.009 ^c	0.991	(0.914-1.075)
PHQ-2 Loss of Interest: Nearly every day in past 2 weeks	-0.051 ^c	0.951	(0.870-1.039)
Pressure ulcer assessment indicates risk	-0.260	0.771	(0.743-0.799)
Pressure Ulcer Present: Total Number Stage II or higher	-0.093	0.911	(0.857-0.968)
Risk for Hospitalization: History of falls	-0.081	0.922	(0.893-0.952)
Risk Factors: None of the listed factors	0.097	1.102	(1.039-1.169)
Status of Surgical Wound: Fully granulating	0.247	1.280	(1.197-1.369)
Status of Surgical Wound: Early/partial granulation	0.410	1.507	(1.441-1.576)
Status of Surgical Wound: Not healing	0.451	1.570	(1.463-1.685)
Stasis Ulcer Present	-0.242	0.785	(0.693-0.889)
Number of therapy visits: 1-2	0.047 ^c	1.048	(0.990-1.110)

Table 4: Improvement in Bed Transferring (continued)

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Number of therapy visits: 3-4	0.128	1.136	(1.052-1.228)
Number of therapy visits: 5-6	0.245	1.277	(1.213-1.344)
Number of therapy visits: 7-8	0.290	1.336	(1.271-1.404)
Number of therapy visits: 9-10	0.307	1.360	(1.292-1.430)
Number of therapy visits: 11-12	0.365	1.440	(1.365-1.521)
Number of therapy visits: 13-14	0.296	1.344	(1.269-1.424)
Number of therapy visits: 15-16	0.259	1.296	(1.214-1.384)
Number of therapy visits: 17-18	0.363	1.438	(1.329-1.556)
Number of therapy visits: 19-20	0.185	1.203	(1.100-1.316)
Toilet Hygiene Assistance: Needs supplies laid out	-0.049 ^a	0.953	(0.916-0.990)
Toilet Hygiene Assistance: Needs assistance	-0.200	0.819	(0.777-0.863)
Toilet Hygiene Assistance: Entirely dependent	-0.490	0.613	(0.547-0.687)
Ability to Dress Upper Body: Needs clothing laid out	-0.049 ^b	0.953	(0.901-1.007)
Ability to Dress Upper Body: Needs assistance putting on clothing	-0.096	0.908	(0.853-0.966)
Ability to Dress Upper Body: Entirely dependent upon someone else	-0.145 ^a	0.865	(0.770-0.970)
Vision: Partially impaired	-0.114	0.892	(0.861-0.925)
Vision: Severely impaired	0.033 ^c	1.033	(0.922-1.159)
Constant	0.698	2.010	

Number of Risk Factors: 99

Developmental Sample R² = 0.165

Developmental Sample C-statistic = 0.733

Validation Sample R² = 0.164

Validation Sample C-statistic = 0.733

¹ SOC = Start of Care, ROC = Resumption of Care after inpatient stay. Risk factors values are based on SOC/ROC assessment values for the episode of care.

² Most risk factors take on the values 0 and 1; 1 denotes the presence of the attribute and 0 denotes its absence. In virtually all cases, each response option for an OASIS item is a risk factor. In a small number of cases (e.g., number of pressure ulcers at Stage III), the actual number provided in the assessment is used.

³ Because all response option values for an OASIS item are included as risk factors in a model even if only one option value is statistically significant, the following superscripts are used to denote the statistical significance for each risk factor coefficient:

- Blank = significant at probability<.01
- a = significant at 0.01<probability<.05
- b = significant at 0.05<probability<.10
- c = not significant, probability>.10

Table 5: Improvement in Behavior Problem Frequency

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Bathing: With the use of devices in shower/tub	0.128 ^c	1.137	(0.927-1.395)
Bathing: With intermittent assistance in shower/tub	0.246 ^a	1.280	(1.055-1.552)
Bathing: Participates with supervision in shower/tub	0.223 ^a	1.249	(1.028-1.519)
Bathing: Independent at sink, in chair, or on commode	0.339	1.403	(1.128-1.745)
Bathing: Participates with assist at sink, in chair, or commode	0.262 ^a	1.299	(1.054-1.602)
Bathing: Unable to participate; bathed totally by another	0.290 ^a	1.336	(1.064-1.677)
Chronic Conditions: Cognitive/mental/behavioral	-0.288	0.750	(0.703-0.801)
Grooming: Grooming utensils must be placed within reach	0.093 ^a	1.098	(1.001-1.204)
Grooming: Assistance needed	0.123 ^a	1.131	(1.017-1.257)
Grooming: Entirely dependent upon someone else	-0.015 ^c	0.985	(0.846-1.148)
Urinary incontinence/catheter: Incontinent	-0.152	0.859	(0.805-0.917)
Urinary incontinence/catheter: Catheter	-0.309	0.734	(0.619-0.870)
Frequency of Disruptive Behavior: Once a month	0.227	1.255	(1.060-1.485)
Frequency of Disruptive Behavior: Several times each month	-0.12	0.887	(0.815-0.965)
Frequency of Disruptive Behavior: Several times a week	0.154	1.166	(1.086-1.252)
Cognitive Functioning: Requires prompting under stress	-0.102 ^b	0.903	(0.815-1.001)
Cognitive Functioning: Requires assist in special circumstances	-0.277	0.758	(0.672-0.855)
Cognitive Function: Requires considerable assist/totally dependent	-0.322	0.725	(0.620-0.847)
Confused: In new or complex situations	-0.219	0.803	(0.719-0.897)
Confused: Sometimes	-0.315	0.729	(0.643-0.828)
Confused: Constantly	-0.452	0.636	(0.540-0.751)
Dyspnea: Walking more than 20 feet, climbing stairs	0.036 ^c	1.036	(0.956-1.124)
Dyspnea: Moderate exertion	0.066 ^b	1.068	(0.989-1.154)
Dyspnea: Minimal to no exertion	0.159	1.173	(1.070-1.286)
Eating: Requires set up, intermittent assist or modified consistency	0.072 ^a	1.075	(1.003-1.151)
Eating: Unable to feed self and must be assisted throughout meal	0.035 ^c	1.036	(0.908-1.182)
Eating: Requires tube feedings, or no nutrients orally or via tube	0.171 ^c	1.187	(0.859-1.640)
Patient Overall Status: Temporary high health risk	0.119 ^a	1.127	(1.027-1.236)
Patient Overall Status: Fragile health	0.023 ^c	1.023	(0.928-1.127)
Patient Overall Status: Serious progressive conditions	-0.125 ^b	0.882	(0.770-1.012)
Management of Oral Meds: Advance dose prep/chart needed	-0.036 ^c	0.964	(0.855-1.088)
Management of Oral Meds: Reminders needed	-0.045 ^c	0.956	(0.835-1.094)
Management of Oral Meds: Unable	-0.192 ^a	0.825	(0.713-0.955)
Prior Management of Oral Meds: Needed assistance	-0.205	0.814	(0.771-0.861)
Use of Telephone: Able to use specially adapted telephone	0.049 ^c	1.050	(0.950-1.161)
Use of Telephone: Able to answer but difficulty placing calls	-0.021 ^c	0.979	(0.892-1.076)
Use of Telephone: Limited ability to answer or converse	-0.036 ^c	0.965	(0.874-1.064)
Use of Telephone: Unable to answer but listens with assistance	-0.158 ^a	0.854	(0.750-0.972)
Use of Telephone: Totally unable	-0.228	0.796	(0.698-0.908)
Surgical Wound Present	0.253	1.288	(1.186-1.398)

Table 5: Improvement in Behavior Problem Frequency (continued)

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Therapy Amounts: Low	0.177	1.194	(1.086-1.312)
Therapy Amounts: Medium	0.255	1.290	(1.205-1.382)
Therapy Amounts: High	0.336	1.400	(1.290-1.519)
Verbal Understanding: Most of the time	-0.084 ^a	0.920	(0.854-0.990)
Verbal Understanding: Sometimes	-0.071 ^c	0.932	(0.843-1.029)
Constant	0.99	2.691	(0.000-0.000)

Number of Risk Factors: 45

Developmental Sample R² = 0.074

Developmental Sample C-statistic = 0.662

Validation Sample R² = 0.069

Validation Sample C-statistic = 0.656

¹ SOC = Start of Care, ROC = Resumption of Care after inpatient stay. Risk factors values are based on SOC/ROC assessment values for the episode of care.

² Most risk factors take on the values 0 and 1; 1 denotes the presence of the attribute and 0 denotes its absence. In virtually all cases, each response option for an OASIS item is a risk factor. In a small number of cases (e.g., number of pressure ulcers at Stage III), the actual number provided in the assessment is used.

³ Because all response option values for an OASIS item are included as risk factors in a model even if only one option value is statistically significant, the following superscripts are used to denote the statistical significance for each risk factor coefficient:

Blank = significant at probability < .01

a = significant at 0.01 < probability < .05

b = significant at 0.05 < probability < .10

c = not significant, probability > .10

Table 6: Improvement in Bowel Incontinence

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Acute condition: Open wound/lesion	-0.156	0.856	(0.760-0.963)
Bowel Incontinence Frequency: 1-3 times a week	0.244	1.276	(1.169-1.393)
Bowel Incontinence Frequency: 4-6 times a week or more	0.538	1.712	(1.512-1.939)
Bowel Incontinence Frequency: On a daily basis	0.349	1.418	(1.270-1.583)
Bowel Incontinence Frequency: More often than once daily	1.305	3.688	(2.979-4.567)
Chronic Conditions: Chronic Pain	-0.156	0.855	(0.765-0.956)
IADL Assistance: Caregiver training/support needed	0.209	1.232	(1.063-1.429)
Urinary incontinence/catheter	-0.299	0.741	(0.609-0.902)
Discharged from inpatient setting within past 14 days	0.181	1.199	(1.112-1.293)
Ambulation/Locomotion: One-handed device on all surfaces	0.169 ^c	1.184	(0.915-1.532)
Ambulation/Locomotion: Two-handed device/human assist on steps	0.125 ^c	1.134	(0.889-1.445)
Ambulation/Locomotion: Walks only with supervision or assist	0.063 ^c	1.065	(0.830-1.366)
Ambulation/Locomotion: Chairfast or bedfast	-0.408	0.665	(0.513-0.861)
Confused: In new or complex situations	-0.054 ^c	0.947	(0.856-1.048)
Confused: Sometimes	-0.251	0.778	(0.691-0.876)
Confused: Constantly	-0.432	0.649	(0.559-0.754)
Dyspnea: Walking more than 20 feet, climbing stairs	0.057 ^c	1.059	(0.949-1.181)
Dyspnea: Moderate exertion	0.093 ^b	1.097	(0.998-1.206)
Dyspnea: Minimal to no exertion	0.164	1.178	(1.056-1.314)
Urinary Incontinence: Occasional stress incontinence	0.158 ^c	1.171	(0.960-1.427)
Urinary Incontinence: Day or night	0.046 ^c	1.047	(0.829-1.321)
Urinary Incontinence: Day and night	-0.196 ^a	0.822	(0.700-0.966)
Patient Overall Status: Temporary high health risk	0.271	1.312	(1.168-1.473)
Patient Overall Status: Fragile health	0.142 ^a	1.152	(1.022-1.299)
Patient Overall Status: Serious progressive conditions	-0.054 ^c	0.947	(0.803-1.117)
Frequency of Pain: Pain does not interfere with activity	0.202	1.224	(1.075-1.393)
Frequency of Pain: Less often than daily	0.103 ^b	1.109	(0.982-1.252)
Frequency of Pain: Daily, but not constant	0.125	1.133	(1.032-1.244)
Frequency of Pain: Constant	0.253	1.288	(1.107-1.499)
Use of Telephone: Able to use specially adapted telephone	0.089 ^c	1.093	(0.955-1.251)
Use of Telephone: Able to answer but difficulty placing calls	-0.136 ^a	0.872	(0.768-0.991)
Use of Telephone: Limited ability to answer or converse	-0.222	0.801	(0.705-0.909)
Use of Telephone: Unable to answer but listens with assistance	-0.459	0.632	(0.549-0.727)
Use of Telephone: Totally unable	-0.571	0.565	(0.492-0.649)
Pressure ulcer assessment indicates risk	-0.105 ^a	0.901	(0.830-0.977)
Risk for Hospitalization: Recent mental/emotional decline	0.14	1.150	(1.059-1.250)
Surgical Wound Present	0.194	1.215	(1.086-1.358)
Therapy Amounts: Low	0.179	1.196	(1.058-1.352)
Therapy Amounts: Medium	0.293	1.340	(1.227-1.464)

Table 6: Improvement in Bowel Incontinence (continued)

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Therapy Amounts: High	0.388	1.474	(1.333-1.629)
Toilet Hygiene Assistance: Needs supplies laid out	-0.020 ^c	0.980	(0.857-1.121)
Toilet Hygiene Assistance: Needs assistance	-0.121 ^b	0.886	(0.770-1.020)
Toilet Hygiene Assistance: Entirely dependent	-0.519	0.595	(0.501-0.706)
Constant	0.692	1.997	

Number of Risk Factors: 43

Developmental Sample R² = 0.130

Developmental Sample C-statistic = 0.711

Validation Sample R² = 0.120

Validation Sample C-statistic = 0.702

¹ SOC = Start of Care, ROC = Resumption of Care after inpatient stay. Risk factors values are based on SOC/ROC assessment values for the episode of care.

² Most risk factors take on the values 0 and 1; 1 denotes the presence of the attribute and 0 denotes its absence. In virtually all cases, each response option for an OASIS item is a risk factor. In a small number of cases (e.g., number of pressure ulcers at Stage III), the actual number provided in the assessment is used.

³ Because all response option values for an OASIS item are included as risk factors in a model even if only one option value is statistically significant, the following superscripts are used to denote the statistical significance for each risk factor coefficient:

Blank = significant at probability<.01

a = significant at 0.01<probability<.05

b = significant at 0.05<probability<.10

c = not significant, probability>.10

Table 7: Improvement in Confusion Frequency

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Acute condition: Cardiac/peripheral vascular	0.074	1.076	(1.038-1.116)
Acute condition: Diabetes mellitus	0.082	1.085	(1.031-1.142)
Acute condition: Neurologic	0.063 ^a	1.065	(1.012-1.120)
Behavioral: Physical aggression to self/others	-0.284	0.753	(0.626-0.906)
Confusion: In new or complex situations only	1.623	5.067	(4.548-5.645)
Confusion: On awakening or at night only	1.332	3.789	(3.568-4.024)
Confusion: During the day and evening, but not constantly	2.05	7.771	(6.937-8.706)
Grooming: Grooming utensils must be placed within reach	0.088	1.092	(1.040-1.147)
Grooming: Assistance needed	0.086	1.089	(1.026-1.157)
Grooming: Entirely dependent upon someone else	-0.114 ^a	0.892	(0.804-0.990)
Home Care Diagnosis: Mental diseases	-0.229	0.795	(0.760-0.831)
Home Care Diagnosis: Nervous system diseases	-0.131	0.877	(0.837-0.918)
Discharged from inpatient setting within past 14 days	0.213	1.237	(1.187-1.289)
Discharged from inpatient rehab hospital/unit (IRF) past 14 days	0.083 ^a	1.086	(1.013-1.165)
Urinary incontinence/catheter: Incontinent	-0.227	0.797	(0.741-0.857)
Medication Assistance: Caregiver training/support needed	0.156	1.169	(1.101-1.242)
Behavioral: Memory deficit	-0.145	0.865	(0.825-0.906)
Age: 18-64	-0.012 ^c	0.988	(0.925-1.055)
Age: 75-84	-0.153	0.858	(0.818-0.900)
Age: 85 and over	-0.309	0.734	(0.697-0.773)
Ambulation/Locomotion: One-handed device on all surfaces	0.052 ^c	1.054	(0.964-1.152)
Ambulation/Locomotion: Two-handed device/human assist on steps	0.055 ^c	1.056	(0.967-1.154)
Ambulation/Locomotion: Walks only with supervision or assist	-0.025 ^c	0.975	(0.885-1.074)
Ambulation/Locomotion: Chairfast or bedfast	-0.139 ^a	0.870	(0.769-0.984)
Cognitive Functioning: Requires prompting under stress	-0.22	0.803	(0.766-0.841)
Cognitive Functioning: Requires assist in special circumstances	-0.387	0.679	(0.631-0.730)
Cognitive Function: Requires considerable assist/totally dependent	-0.614	0.541	(0.482-0.608)
Depression screen indicates need for further evaluation	0.070 ^a	1.072	(1.009-1.139)
Dyspnea: Walking more than 20 feet, climbing stairs	-0.002 ^c	0.998	(0.950-1.048)
Dyspnea: Moderate exertion	-0.011 ^c	0.989	(0.942-1.039)
Dyspnea: Minimal to no exertion	0.103	1.108	(1.044-1.176)
Urinary Incontinence: Occasional stress incontinence	0.161	1.174	(1.082-1.274)
Urinary Incontinence: Day or night	0.189	1.208	(1.083-1.347)
Urinary Incontinence: Day and night	0.044 ^c	1.045	(0.971-1.125)
Difficulty in Speech: Minimal	-0.194	0.823	(0.786-0.862)
Difficulty in Speech: Moderate	-0.229	0.795	(0.734-0.861)
Difficulty in Speech: Severe to nonresponsive	-0.354	0.702	(0.620-0.794)
Toilet Transferring: To/from/on/off toilet with human assist	0.09	1.094	(1.043-1.147)
Toilet Transferring: Able to self-transfer to bedside commode	0.253	1.288	(1.187-1.397)
Toilet Transferring: Unable to transfer to/from toilet or commode	0.114 ^a	1.120	(1.002-1.253)

Table 7: Improvement in Confusion Frequency (continued)

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Transferring: With minimal human assist or with device	0.044 ^c	1.045	(0.981-1.114)
Transferring: Bears weight and pivots only	0.131	1.140	(1.047-1.242)
Transferring: Unable or bedfast	0.189	1.208	(1.065-1.370)
Patient Overall Status: Temporary high health risk	0.116	1.123	(1.065-1.184)
Patient Overall Status: Fragile health	0.081	1.084	(1.021-1.151)
Patient Overall Status: Serious progressive conditions	0.020 ^c	1.020	(0.927-1.123)
Management of Oral Meds: Advance dose prep/chart needed	-0.054 ^b	0.947	(0.894-1.004)
Management of Oral Meds: Reminders needed	-0.178	0.837	(0.780-0.899)
Management of Oral Meds: Unable	-0.301	0.740	(0.682-0.803)
Prior Functioning: Needed assistance with household tasks	-0.109	0.896	(0.870-0.923)
Conditions Prior to Treatment: Impaired decision making	-0.177	0.838	(0.802-0.875)
Prior Management of Oral Meds: Needed assistance	-0.211	0.810	(0.781-0.840)
Frequency of Pain: Pain does not interfere with activity	0.069 ^a	1.071	(1.005-1.142)
Frequency of Pain: Less often than daily	0.067 ^a	1.069	(1.005-1.137)
Frequency of Pain: Daily, but not constant	0.101	1.107	(1.058-1.157)
Frequency of Pain: Constant	0.101	1.106	(1.034-1.182)
Payment Source: Medicare, Medicaid, or Private HMO	-0.074	0.928	(0.884-0.976)
Use of Telephone: Able to use specially adapted telephone	0.088	1.092	(1.028-1.160)
Use of Telephone: Able to answer but difficulty placing calls	-0.09	0.914	(0.860-0.970)
Use of Telephone: Limited ability to answer or converse	-0.157	0.855	(0.799-0.914)
Use of Telephone: Unable to answer but listens with assistance	-0.317	0.728	(0.662-0.801)
Use of Telephone: Totally unable	-0.383	0.682	(0.616-0.754)
Assistance with Medical treatments: Caregiver provides	0.127	1.135	(1.086-1.186)
Assistance with Medical treatments: Needs training/support	0.129	1.138	(1.062-1.219)
Risk for Hospitalization: Taking five or more medications	0.128	1.136	(1.085-1.190)
Risk for Hospitalization: Presence of frailty indicators	0.048 ^a	1.050	(1.009-1.092)
Risk Factors: Obesity	0.068	1.070	(1.021-1.122)
Risk for Hospitalization: Other unlisted risk factors	-0.115	0.892	(0.843-0.943)
Supervision and Safety Assistance: None needed	0.127	1.135	(1.083-1.190)
Surgical Wound Present	0.238	1.269	(1.210-1.331)
Therapy Amounts: Low	0.136	1.145	(1.077-1.218)
Therapy Amounts: Medium	0.239	1.270	(1.215-1.328)
Therapy Amounts: High	0.298	1.348	(1.279-1.420)
Episode Timing: Later	-0.164	0.849	(0.788-0.914)
Verbal Understanding: Most of the time	-0.052 ^a	0.950	(0.907-0.995)
Verbal Understanding: Sometimes	-0.146	0.864	(0.795-0.940)
Verbal Understanding: Rarely or never	-0.456	0.634	(0.497-0.809)
Constant	-0.238	0.788	

Table 7: Improvement in Confusion Frequency (continued)

Number of Risk Factors: 77

Developmental Sample $R^2 = 0.106$

Developmental Sample C-statistic = 0.687

Validation Sample $R^2 = 0.102$

Validation Sample C-statistic = 0.683

- ¹ SOC = Start of Care, ROC = Resumption of Care after inpatient stay. Risk factors values are based on SOC/ROC assessment values for the episode of care.
- ² Most risk factors take on the values 0 and 1; 1 denotes the presence of the attribute and 0 denotes its absence. In virtually all cases, each response option for an OASIS item is a risk factor. In a small number of cases (e.g., number of pressure ulcers at Stage III), the actual number provided in the assessment is used.
- ³ Because all response option values for an OASIS item are included as risk factors in a model even if only one option value is statistically significant, the following superscripts are used to denote the statistical significance for each risk factor coefficient:
 - Blank = significant at probability < .01
 - a = significant at .01 < probability < .05
 - b = significant at .05 < probability < .10
 - c = not significant, probability > .10

Table 8: Improvement in Dyspnea

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Acute condition: Oxygen therapy	-0.857	0.425	(0.404-0.446)
Acute condition: Orthopedic	0.146	1.158	(1.117-1.200)
Anxiety: Less often than daily	-0.056	0.945	(0.912-0.980)
Anxiety: Daily, but not constantly	-0.018 ^c	0.982	(0.940-1.026)
Anxiety: All of the time	-0.075 ^c	0.928	(0.819-1.051)
Bathing: With the use of devices in shower/tub	-0.039 ^c	0.962	(0.880-1.052)
Bathing: With intermittent assistance in shower/tub	-0.022 ^c	0.978	(0.894-1.069)
Bathing: Participates with supervision in shower/tub	0.007 ^c	1.007	(0.917-1.105)
Bathing: Independent at sink, in chair, or on commode	0.104 ^a	1.110	(1.004-1.227)
Bathing: Participates with assist at sink, in chair, or commode	0.049 ^c	1.050	(0.948-1.163)
Bathing: Unable to participate; bathed totally by another	-0.041 ^c	0.960	(0.832-1.107)
Chronic Conditions: Dependence in living skills	-0.094	0.910	(0.851-0.974)
Chronic Conditions: Dependence in medication administration	-0.158	0.854	(0.814-0.895)
Start of Care-Further visits planned	0.226	1.253	(1.193-1.316)
Management of Equipment: None needed	-0.106	0.900	(0.836-0.968)
Management of Equipment: Caregiver currently provides	-0.157	0.854	(0.789-0.925)
Home Care Diagnosis: Endocrine/nutritional/metabolic	-0.073	0.930	(0.900-0.960)
Home Care Diagnosis: Fractures	0.148	1.160	(1.083-1.242)
Home Care Diagnosis: Other injury	-0.079 ^a	0.924	(0.854-0.999)
Home Care Diagnosis: Neoplasms	-0.219	0.803	(0.755-0.854)
Home Care Diagnosis: Skin/subcutaneous diseases	-0.182	0.834	(0.787-0.883)
Discharged from inpatient setting within past 14 days	0.269	1.309	(1.260-1.359)
Medication Assistance: Caregiver training/support needed	0.162	1.176	(1.109-1.247)
Meal prep: Unable to plan/prepare light meals	0.136	1.145	(1.097-1.196)
Meal prep: Unable to reheat delivered meals	0.223	1.250	(1.161-1.347)
Age: 18-64	-0.104	0.902	(0.856-0.949)
Age: 75-84	0.024 ^c	1.024	(0.984-1.066)
Age: 85 and over	0.030 ^c	1.030	(0.985-1.077)
Ambulation/Locomotion: One-handed device on all surfaces	-0.093 ^a	0.912	(0.846-0.982)
Ambulation/Locomotion: Two-handed device/human assist on steps	-0.078 ^a	0.925	(0.858-0.996)
Ambulation/Locomotion: Walks only with supervision or assist	0.025 ^c	1.026	(0.943-1.115)
Ambulation/Locomotion: Chairfast or bedfast	-0.292	0.746	(0.666-0.837)
Dyspnea: Moderate exertion	1.109	3.033	(2.928-3.141)
Dyspnea: Minimal exertion	1.758	5.799	(5.496-6.118)
Dyspnea: At rest	2.103	8.193	(7.395-9.078)
Urinary Incontinence: Occasional stress incontinence	-0.067	0.935	(0.892-0.980)
Urinary Incontinence: Day or night	0.043 ^c	1.044	(0.958-1.138)
Urinary Incontinence: Day and night	-0.185	0.831	(0.800-0.864)
Difficulty in Speech: Minimal	-0.134	0.875	(0.843-0.908)
Difficulty in Speech: Moderate	-0.053 ^c	0.949	(0.881-1.022)

Table 8: Improvement in Dyspnea (continued)

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Difficulty in Speech: Severe to nonresponsive	0.044 ^c	1.045	(0.919-1.188)
Toilet Transferring: To/from/on/off toilet with human assist	0.185	1.203	(1.152-1.257)
Toilet Transferring: Able to self-transfer to bedside commode	0.124	1.132	(1.047-1.223)
Toilet Transferring: Unable to transfer to/from toilet or commode	-0.031 ^c	0.970	(0.855-1.100)
Transferring: With minimal human assist or with device	-0.086	0.917	(0.870-0.967)
Transferring: Bears weight and pivots only	-0.023 ^c	0.978	(0.905-1.056)
Transferring: Unable or bedfast	0.032 ^c	1.033	(0.911-1.171)
Patient Overall Status: Temporary high health risk	0.140	1.150	(1.100-1.203)
Patient Overall Status: Fragile health	-0.057 ^a	0.944	(0.896-0.995)
Patient Overall Status: Serious progressive conditions	-0.378	0.685	(0.628-0.747)
Management of Oral Meds: Advance dose prep/chart needed	0.088	1.092	(1.039-1.148)
Management of Oral Meds: Reminders needed	0.145	1.156	(1.083-1.233)
Management of Oral Meds: Unable	0.138	1.148	(1.072-1.230)
Prior Functioning: Needed assistance with ambulation	-0.154	0.857	(0.830-0.885)
Conditions Prior to Treatment: Impaired decision making	-0.045 ^a	0.956	(0.914-1.000)
Frequency of Pain: Pain does not interfere with activity	0.050 ^b	1.051	(0.994-1.111)
Frequency of Pain: Less often than daily	-0.027 ^c	0.973	(0.923-1.026)
Frequency of Pain: Daily, but not constant	-0.090	0.914	(0.882-0.946)
PHQ-2 Loss of Interest: Several days in past 2 weeks	-0.098	0.907	(0.869-0.947)
PHQ-2 Loss of Interest: More than half of days in past 2 weeks	-0.042 ^c	0.958	(0.880-1.044)
PHQ-2 Loss of Interest: Nearly every day in past 2 weeks	-0.096 ^a	0.908	(0.827-0.998)
Assistance with Medical treatments: Caregiver provides	0.089	1.093	(1.048-1.140)
Status of Surgical Wound: Fully granulating	0.264	1.302	(1.202-1.410)
Status of Surgical Wound: Early/partial granulation	0.425	1.529	(1.450-1.612)
Status of Surgical Wound: Not healing	0.463	1.589	(1.465-1.723)
Number of therapy visits: 1-2	0.103	1.108	(1.042-1.178)
Number of therapy visits: 3-4	0.167	1.182	(1.084-1.288)
Number of therapy visits: 5-6	0.354	1.425	(1.343-1.511)
Number of therapy visits: 7-8	0.392	1.480	(1.397-1.568)
Number of therapy visits: 9-10	0.373	1.452	(1.369-1.541)
Number of therapy visits: 11-12	0.305	1.356	(1.274-1.443)
Number of therapy visits: 13-14	0.137	1.146	(1.075-1.223)
Number of therapy visits: 15-16	0.258	1.294	(1.200-1.396)
Number of therapy visits: 17-18	0.312	1.366	(1.245-1.499)
Number of therapy visits: 19-20	0.241	1.273	(1.149-1.410)
Toilet Hygiene Assistance: Needs supplies laid out	-0.038 ^b	0.963	(0.921-1.007)
Toilet Hygiene Assistance: Needs assistance	-0.064 ^a	0.938	(0.884-0.995)
Toilet Hygiene Assistance: Entirely dependent	0.037 ^c	1.038	(0.914-1.179)
Ability to Dress Upper Body: Needs clothing laid out	-0.002 ^c	0.998	(0.951-1.047)
Ability to Dress Upper Body: Needs assistance putting on clothing	-0.137	0.872	(0.822-0.925)

Table 8: Improvement in Dyspnea (continued)

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Ability to Dress Upper Body: Entirely dependent upon someone else	-0.148 ^a	0.863	(0.771-0.966)
Vision: Partially impaired	-0.185	0.831	(0.800-0.863)
Vision: Severely impaired	-0.054 ^c	0.948	(0.835-1.076)
Constant	-0.325	0.723	

Number of Risk Factors: 83

Developmental Sample R² = 0.117

Developmental Sample C-statistic = 0.703

Validation Sample R² = 0.114

Validation Sample C-statistic = 0.700

¹ SOC = Start of Care, ROC = Resumption of Care after inpatient stay. Risk factors values are based on SOC/ROC assessment values for the episode of care.

² Most risk factors take on the values 0 and 1; 1 denotes the presence of the attribute and 0 denotes its absence. In virtually all cases, each response option for an OASIS item is a risk factor. In a small number of cases (e.g., number of pressure ulcers at Stage III), the actual number provided in the assessment is used.

³ Because all response option values for an OASIS item are included as risk factors in a model even if only one option value is statistically significant, the following superscripts are used to denote the statistical significance for each risk factor coefficient:

Blank = significant at probability < .01

a = significant at .01 < probability < .05

b = significant at .05 < probability < .10

c = not significant, probability > .10

Table 9: Improvement in Eating

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Acute condition: Enteral/parenteral nutrition	-0.701	0.496	(0.379-0.650)
Acute condition: Orthopedic	0.068	1.071	(1.020-1.124)
Advocacy Assistance: None Needed	0.182	1.199	(1.083-1.329)
Anxiety: Less often than daily	0.041 ^c	1.042	(0.991-1.094)
Anxiety: Daily, but not constantly	0.112	1.119	(1.055-1.187)
Anxiety: All of the time	0.288	1.334	(1.127-1.579)
Frequency of ADL /IADL Assistance: At least daily	0.002 ^c	1.002	(0.827-1.215)
Frequency of ADL /IADL Assistance: Three or more times per week	0.157 ^c	1.170	(0.947-1.444)
Frequency of ADL/IADL Assistance: One or two times per week	0.298 ^a	1.348	(1.064-1.706)
Frequency of ADL /IADL Assistance: Received less than weekly	0.144 ^c	1.155	(0.855-1.560)
Chronic Conditions: Dependence in living skills	-0.135	0.874	(0.802-0.952)
Chronic Conditions: Dependence in medication administration	-0.171	0.843	(0.768-0.924)
Eating: Unable to feed self and must be assisted throughout meal	1.802	6.060	(5.419-6.777)
Eating: Receives nutrients orally and through tube	0.748	2.114	(1.491-2.996)
Eating: Only receives nutrients through tube	0.67	1.954	(1.368-2.792)
Eating: Unable to take nutrients orally or by tube	2.846	17.212	(7.659-38.681)
Patient is male	0.093	1.098	(1.050-1.147)
Grooming: Grooming utensils must be placed within reach	-0.085 ^a	0.918	(0.852-0.990)
Grooming: Assistance needed	-0.2	0.819	(0.753-0.890)
Grooming: Entirely dependent upon someone else	-0.418	0.658	(0.578-0.749)
Home Care Diagnosis: Circulatory system diseases	0.059 ^a	1.060	(1.012-1.112)
Home Care Diagnosis: Fractures	0.096 ^a	1.101	(1.010-1.200)
Home Care Diagnosis: Mental diseases	-0.064 ^a	0.938	(0.886-0.993)
Home Care Diagnosis: Neoplasms	-0.267	0.766	(0.704-0.833)
Home Care Diagnosis: Nervous system diseases	-0.15	0.860	(0.816-0.907)
Discharged from inpatient setting within past 14 days	0.167	1.182	(1.074-1.300)
Discharged from inpatient rehab hospital/unit (IRF) past 14 days	0.167	1.181	(1.062-1.314)
Discharged from skilled nursing facility (SNF / TCU) past 14 days	0.163	1.177	(1.072-1.292)
Discharged from Short-stay acute hospital (IPP S) past 14 days	0.173	1.189	(1.089-1.297)
Lives alone with round the clock assistance	0.238	1.269	(1.175-1.370)
Lives in congregate situation with around the clock assistance	-0.261	0.770	(0.715-0.830)
Lives alone with occasional/short term assistance	0.191	1.211	(1.102-1.331)
Urinary incontinence/catheter: Incontinent	-0.109	0.897	(0.855-0.940)
Urinary incontinence/catheter: Catheter	-0.104 ^b	0.901	(0.802-1.013)
Medication Assistance: Caregiver training/support needed	0.108	1.114	(1.042-1.190)
Meal prep: Unable to plan/prepare light meals	-0.106 ^a	0.899	(0.819-0.987)
Meal prep: Unable to reheat delivered meals	-0.142 ^a	0.867	(0.770-0.977)
Change in medical or treatment regimen in past 14 days	0.175	1.191	(1.077-1.318)
Age: 18-64	-0.095 ^a	0.909	(0.843-0.981)

Table 9: Improvement in Eating (continued)

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Age: 75-84	-0.041 ^c	0.959	(0.906-1.016)
Age: 85 and over	-0.157	0.854	(0.803-0.909)
Ambulation/Locomotion: One-handed device on all surfaces	0.079 ^c	1.082	(0.933-1.256)
Ambulation/Locomotion: Two-handed device/human assist on steps	0.013 ^c	1.013	(0.875-1.173)
Ambulation/Locomotion: Walks only with supervision or assist	0.017 ^c	1.017	(0.873-1.184)
Ambulation/Locomotion: Chairfast or bedfast	-0.45	0.638	(0.536-0.758)
Difficulty in Speech: Minimal	-0.119	0.888	(0.844-0.933)
Difficulty in Speech: Moderate	-0.165	0.848	(0.779-0.923)
Difficulty in Speech: Severe to nonresponsive	-0.234	0.792	(0.693-0.904)
Transferring: With minimal human assist or with device	-0.111 ^a	0.895	(0.807-0.993)
Transferring: Bears weight and pivots only	-0.120 ^a	0.887	(0.788-0.999)
Transferring: Unable or bedfast	-0.303	0.739	(0.635-0.858)
Patient Overall Status: Temporary high health risk	0.079 ^a	1.083	(1.015-1.155)
Patient Overall Status: Fragile health	0.006 ^c	1.006	(0.935-1.083)
Patient Overall Status: Serious progressive conditions	-0.193	0.825	(0.737-0.923)
Management of Oral Meds: Advance dose prep/chart needed	-0.048 ^c	0.953	(0.879-1.034)
Management of Oral Meds: Reminders needed	-0.124 ^a	0.883	(0.804-0.971)
Management of Oral Meds: Unable	-0.292	0.747	(0.674-0.827)
Prior Functioning: Needed assistance with ambulation	-0.103	0.902	(0.857-0.950)
Conditions Prior to Treatment: Impaired decision making	-0.063 ^a	0.939	(0.889-0.990)
Prior Management of Oral Meds: Needed assistance	-0.09	0.914	(0.861-0.969)
Prior Functioning: Needed assistance with self care	-0.229	0.796	(0.754-0.839)
Frequency of Pain: Pain does not interfere with activity	0.034 ^c	1.034	(0.954-1.121)
Frequency of Pain: Less often than daily	0.035 ^c	1.035	(0.960-1.117)
Frequency of Pain: Daily, but not constant	-0.012 ^c	0.988	(0.935-1.045)
Frequency of Pain: Constant	0.153	1.166	(1.075-1.264)
Payment Source: All Medicaid	-0.28	0.756	(0.692-0.826)
Use of Telephone: Able to use specially adapted telephone	-0.183	0.833	(0.779-0.890)
Use of Telephone: Able to answer but difficulty placing calls	-0.219	0.803	(0.749-0.861)
Use of Telephone: Limited ability to answer or converse	-0.207	0.813	(0.750-0.881)
Use of Telephone: Unable to answer but listens with assistance	-0.452	0.637	(0.571-0.710)
Use of Telephone: Totally unable	-0.552	0.576	(0.511-0.649)
PHQ-2 Loss of Interest: Several days in past 2 weeks	-0.127	0.881	(0.832-0.932)
PHQ-2 Loss of Interest: More than half of days in past 2 weeks	-0.084 ^c	0.919	(0.825-1.024)
PHQ-2 Loss of Interest: Nearly every day in past 2 weeks	-0.194	0.824	(0.729-0.931)
Pressure ulcer assessment indicates risk	-0.118	0.888	(0.846-0.933)
Pressure Ulcer: None present	0.15	1.162	(1.045-1.292)
Risk for Hospitalization: Taking five or more medications	0.064 ^a	1.066	(1.008-1.128)
Risk for Hospitalization: Presence of frailty indicators	0.084	1.088	(1.037-1.141)
Risk for Hospitalization: History of falls	0.050 ^a	1.051	(1.003-1.102)

Table 9: Improvement in Eating (continued)

Risk Factor Measured at SOC/ROC ^{1,2}	Coefficient ³	Odds ratio ³	(95% CI)
Risk Factors: Obesity	0.109	1.115	(1.055-1.179)
Surgical Wound Present	0.287	1.333	(1.213-1.465)
Status of Surgical Wound: Fully granulating	0.008 ^c	1.008	(0.877-1.159)
Status of Surgical Wound: Early/partial granulation	0.325	1.384	(1.238-1.547)
Status of Surgical Wound: Not healing	0.347	1.414	(1.224-1.633)
Therapy Amounts: Low	0.137	1.146	(1.064-1.235)
Therapy Amounts: Medium	0.399	1.491	(1.409-1.577)
Therapy Amounts: High	0.383	1.467	(1.375-1.564)
Episode Timing: Early	0.288	1.333	(1.234-1.441)
Toilet Hygiene Assistance: Needs supplies laid out	0.022 ^c	1.022	(0.958-1.091)
Toilet Hygiene Assistance: Needs assistance	-0.103	0.902	(0.836-0.973)
Toilet Hygiene Assistance: Entirely dependent	-0.271	0.763	(0.673-0.865)
Vision: Partially impaired	-0.213	0.808	(0.770-0.848)
Vision: Severely impaired	-0.354	0.702	(0.611-0.806)
Constant	0.526	1.692	

Number of Risk Factors: 93

Developmental Sample R² = 0.201

Developmental Sample C-statistic = 0.764

Validation Sample R² = 0.199

Validation Sample C-statistic = 0.763

¹ SOC = Start of Care, ROC = Resumption of Care after inpatient stay. Risk factors values are based on SOC/ROC assessment values for the episode of care.

² Most risk factors take on the values 0 and 1; 1 denotes the presence of the attribute and 0 denotes its absence. In virtually all cases, each response option for an OASIS item is a risk factor. In a small number of cases (e.g., number of pressure ulcers at Stage III), the actual number provided in the assessment is used.

³ Because all response option values for an OASIS item are included as risk factors in a model even if only one option value is statistically significant, the following superscripts are used to denote the statistical significance for each risk factor coefficient:

Blank = significant at probability<.01

a = significant at .01<probability<.05

b = significant at .05<probability<.10

c = not significant, probability>.10

Table 10: Improvement in Grooming

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Acute condition: Orthopedic	0.091	1.095	(1.052-1.141)
Acute condition: Open wound/lesion	-0.136	0.873	(0.806-0.946)
ADL Assistance: Caregiver provides	-0.107	0.898	(0.851-0.948)
Anxiety: Less often than daily	0.015 ^c	1.015	(0.973-1.059)
Anxiety: Daily, but not constantly	0.117	1.124	(1.068-1.184)
Anxiety: All of the time	0.318	1.374	(1.182-1.597)
Chronic Conditions: Dependence in personal care	-0.089	0.915	(0.869-0.963)
Start of Care-Further visits planned	0.153	1.166	(1.099-1.237)
Grooming: Grooming utensils must be placed within reach	-2.398	0.091	(0.080-0.103)
Grooming: Assistance needed	-1.191	0.304	(0.270-0.343)
Home Care Diagnosis: Intracranial injury	0.400 ^a	1.492	(1.049-2.122)
Home Care Diagnosis: Mental diseases	-0.104	0.902	(0.859-0.946)
Home Care Diagnosis: Neoplasms	-0.335	0.715	(0.665-0.769)
Home Care Diagnosis: Nervous system diseases	-0.13	0.878	(0.840-0.917)
Hearing: Mildly to moderately impaired	0.088	1.092	(1.049-1.137)
Hearing: Severely impaired	0.052 ^c	1.053	(0.919-1.207)
IADL Assistance: Caregiver currently provides	0.128	1.137	(1.057-1.223)
Urinary incontinence/catheter	-0.128	0.880	(0.816-0.949)
Discharged from inpatient setting within past 14 days	0.121	1.129	(1.040-1.225)
Discharged from inpatient rehab hospital/unit (IRF) past 14 days	0.171	1.186	(1.081-1.302)
Discharged from skilled nursing facility (SNF / TCU) past 14 days	0.138	1.148	(1.059-1.245)
Discharged from Short-stay acute hospital (IPP S) past 14 days	0.22	1.246	(1.155-1.344)
Lives alone with round the clock assistance	0.18	1.197	(1.129-1.271)
Lives alone with occasional/short term assistance	0.205	1.227	(1.142-1.318)
Lives alone with no assistance	0.436	1.547	(1.161-2.062)
Medication Assistance: Caregiver training/support needed	0.232	1.261	(1.179-1.349)
Meal prep: Unable to plan/prepare light meals	-0.021 ^c	0.979	(0.917-1.044)
Meal prep: Unable to reheat delivered meals	-0.117	0.890	(0.828-0.956)
Change in medical or treatment regimen in past 14 days	0.24	1.271	(1.199-1.347)
Age: 18-64	-0.194	0.824	(0.774-0.878)
Age: 75-84	-0.010 ^c	0.990	(0.943-1.039)
Age: 85 and over	-0.164	0.849	(0.805-0.895)
Ambulation/Locomotion: One-handed device on all surfaces	-0.124 ^a	0.883	(0.781-0.999)
Ambulation/Locomotion: Two-handed device/human assist on steps	-0.214	0.807	(0.716-0.910)
Ambulation/Locomotion: Walks only with supervision or assist	-0.248	0.781	(0.690-0.883)
Ambulation/Locomotion: Chairfast or bedfast	-0.849	0.428	(0.373-0.491)
Confused: In new or complex situations	-0.064	0.938	(0.896-0.982)
Confused: Sometimes	-0.184	0.832	(0.777-0.890)
Confused: Constantly	-0.476	0.621	(0.549-0.703)
Dyspnea: Walking more than 20 feet, climbing stairs	0.097	1.102	(1.048-1.159)

Table 10: Improvement in Grooming (continued)

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Dyspnea: Moderate exertion	0.084	1.088	(1.035-1.143)
Dyspnea: Minimal to no exertion	0.142	1.152	(1.082-1.227)
Eating: Requires set up, intermittent assist or modified consistency	-0.065	0.937	(0.901-0.975)
Eating: Unable to feed self and must be assisted throughout meal	-0.21	0.810	(0.730-0.899)
Eating: Requires tube feedings, or no nutrients orally or via tube	-0.325	0.723	(0.591-0.884)
Urinary Incontinence: Occasional stress incontinence	0.036 ^c	1.037	(0.952-1.129)
Urinary Incontinence: Day or night	0.116 ^a	1.122	(1.003-1.256)
Urinary Incontinence: Day and night	-0.091 ^a	0.913	(0.846-0.985)
Difficulty in Speech: Minimal	-0.085	0.919	(0.878-0.961)
Difficulty in Speech: Moderate	-0.142	0.868	(0.804-0.937)
Difficulty in Speech: Severe to nonresponsive	-0.343	0.710	(0.629-0.802)
Patient Overall Status: Temporary high health risk	0.075	1.078	(1.024-1.136)
Patient Overall Status: Fragile health	-0.089	0.915	(0.862-0.972)
Patient Overall Status: Serious progressive conditions	-0.347	0.707	(0.642-0.779)
Management of Oral Meds: Advance dose prep/chart needed	-0.083	0.920	(0.868-0.976)
Management of Oral Meds: Reminders needed	-0.159	0.853	(0.793-0.917)
Management of Oral Meds: Unable	-0.369	0.691	(0.635-0.752)
Respiratory Treatments: Oxygen	-0.201	0.818	(0.776-0.862)
Prior Functioning: Needed assistance with ambulation	-0.069	0.934	(0.894-0.975)
Prior Functioning: Needed assistance with household tasks	-0.094	0.910	(0.878-0.944)
Prior Management of Oral Meds: Needed assistance	-0.142	0.867	(0.834-0.902)
Prior Functioning: Needed assistance with self care	-0.281	0.755	(0.717-0.796)
Frequency of Pain: Pain does not interfere with activity	0.098	1.103	(1.031-1.179)
Frequency of Pain: Less often than daily	0.079 ^a	1.082	(1.016-1.153)
Frequency of Pain: Daily, but not constant	0.121	1.128	(1.077-1.182)
Frequency of Pain: Constant	0.109	1.115	(1.043-1.193)
Payment Source: All Medicaid	-0.119	0.887	(0.821-0.959)
Use of Telephone: Able to use specially adapted telephone	-0.088	0.916	(0.863-0.972)
Use of Telephone: Able to answer but difficulty placing calls	-0.211	0.810	(0.762-0.860)
Use of Telephone: Limited ability to answer or converse	-0.227	0.797	(0.745-0.852)
Use of Telephone: Unable to answer but listens with assistance	-0.433	0.648	(0.590-0.713)
Use of Telephone: Totally unable	-0.592	0.553	(0.499-0.614)
PHQ-2 Depression: Several days in past 2 weeks	-0.093	0.911	(0.870-0.955)
PHQ-2 Depression: More than half of days in past 2 weeks	-0.059 ^c	0.943	(0.860-1.034)
PHQ-2 Depression: Nearly every day in past 2 weeks	-0.064 ^c	0.938	(0.845-1.042)
Assistance with Medical treatments: Needs training/support	0.081 ^a	1.085	(1.010-1.165)
Pressure ulcer assessment indicates risk	-0.225	0.798	(0.766-0.832)
Pressure Ulcer Present: Total Number Stage II or higher	-0.105	0.901	(0.845-0.960)
Risk for Hospitalization: Taking five or more medications	0.08	1.084	(1.034-1.136)
Risk for Hospitalization: Presence of frailty indicators	0.053 ^a	1.055	(1.012-1.099)

Table 10: Improvement in Grooming (continued)

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Risk for Hospitalization: Recent mental/emotional decline	0.059 ^a	1.061	(1.008-1.117)
Surgical Wound Present	0.26	1.297	(1.196-1.406)
Status of Surgical Wound: Fully granulating	0.042 ^c	1.043	(0.925-1.176)
Status of Surgical Wound: Early/partial granulation	0.404	1.499	(1.361-1.650)
Status of Surgical Wound: Not healing	0.393	1.481	(1.307-1.678)
Stasis Ulcer Present	-0.206	0.814	(0.706-0.939)
Therapy Amounts: Low	0.128	1.136	(1.068-1.209)
Therapy Amounts: Medium	0.463	1.589	(1.515-1.667)
Therapy Amounts: High	0.472	1.604	(1.520-1.693)
Episode Timing: Later	-0.181	0.835	(0.776-0.898)
Toilet Hygiene Assistance: Needs supplies laid out	-0.134	0.875	(0.832-0.919)
Toilet Hygiene Assistance: Needs assistance	-0.335	0.715	(0.673-0.760)
Toilet Hygiene Assistance: Entirely dependent	-0.682	0.506	(0.453-0.564)
Ability to Dress Upper Body: Needs clothing laid out	-0.139	0.871	(0.784-0.966)
Ability to Dress Upper Body: Needs assistance putting on clothing	-0.357	0.700	(0.627-0.782)
Ability to Dress Upper Body: Entirely dependent upon someone else	-0.484	0.616	(0.529-0.718)
Behavioral: Verbally disruptive/inappropriate	-0.26	0.771	(0.664-0.895)
Vision: Partially impaired	-0.064	0.938	(0.899-0.978)
Vision: Severely impaired	-0.224	0.799	(0.707-0.903)
Constant	3.475	32.304	

Number of Risk Factors: 99

Developmental Sample R² = 0.189

Developmental Sample C-statistic = 0.764

Validation Sample R² = 0.187

Validation Sample C-statistic = 0.76

¹ SOC = Start of Care, ROC = Resumption of Care after inpatient stay. Risk factors values are based on SOC/ROC assessment values for the episode of care.

² Most risk factors take on the values 0 and 1; 1 denotes the presence of the attribute and 0 denotes its absence. In virtually all cases, each response option for an OASIS item is a risk factor. In a small number of cases (e.g., number of pressure ulcers at Stage III), the actual number provided in the assessment is used.

³ Because all response option values for an OASIS item are included as risk factors in a model even if only one option value is statistically significant, the following superscripts are used to denote the statistical significance for each risk factor coefficient:

Blank = significant at probability<.01

a = significant at .01<probability<.05

b = significant at .05<probability<.10

c = not significant, probability>.10

Table 11: Improvement in Light Meal Preparation

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Acute condition: Enteral/parenteral nutrition	-0.263 ^a	0.769	(0.607-0.975)
Acute condition: Oxygen therapy	-0.205	0.814	(0.773-0.857)
Acute condition: Orthopedic	0.057	1.058	(1.019-1.099)
ADL Assistance: Caregiver provides	-0.143	0.867	(0.817-0.920)
ADL Assistance: Caregiver training/support needed	-0.108	0.898	(0.831-0.971)
Anxiety: Less often than daily	0.045 ^a	1.046	(1.005-1.088)
Anxiety: Daily, but not constantly	0.152	1.164	(1.110-1.221)
Anxiety: All of the time	0.321	1.378	(1.202-1.580)
Frequency of ADL /IADL Assistance: At least daily	0.044 ^c	1.045	(0.910-1.201)
Frequency of ADL /IADL Assistance: Three or more times per week	0.216	1.241	(1.069-1.441)
Frequency of ADL/IADL Assistance: One or two times per week	0.24	1.271	(1.079-1.498)
Frequency of ADL /IADL Assistance: Received less than weekly	0.039 ^c	1.039	(0.843-1.282)
Chronic Conditions: Chronic patient with caregiver	-0.086	0.917	(0.873-0.964)
Home Care Diagnosis: Circulatory system diseases	0.042 ^a	1.043	(1.005-1.082)
Home Care Diagnosis: Mental diseases	-0.088	0.916	(0.874-0.960)
Home Care Diagnosis: Neoplasms	-0.32	0.726	(0.680-0.775)
Home Care Diagnosis: Nervous system diseases	-0.142	0.868	(0.831-0.906)
Home Care Diagnosis: Respiratory system diseases	0.056 ^a	1.057	(1.010-1.107)
Urinary incontinence/catheter	-0.109	0.897	(0.836-0.961)
Discharged from inpatient setting within past 14 days	0.238	1.269	(1.179-1.367)
Discharged from inpatient rehab hospital/unit (IRF) past 14 days	0.13	1.138	(1.051-1.233)
Discharged from skilled nursing facility (SNF / TCU) past 14 days	0.095	1.099	(1.024-1.179)
Discharged from Short-stay acute hospital (IPP S) past 14 days	0.122	1.130	(1.057-1.208)
Ability to Dress Lower Body: Needs clothing/shoes laid out	0.109 ^a	1.116	(1.022-1.217)
Ability to Dress Lower Body: Assist needed putting on clothing	0.114	1.121	(1.030-1.220)
Ability to Dress Lower Body: Entirely dependent upon someone else	0.088 ^c	1.092	(0.976-1.221)
Lives alone with round the clock assistance	0.368	1.445	(1.364-1.531)
Lives in congregate situation with around the clock assistance	-0.659	0.518	(0.486-0.551)
Lives in congregate situation with regular daytime assistance	-0.879	0.415	(0.284-0.606)
Lives in congregate situation-occasional/short term assistance	-0.659	0.517	(0.403-0.663)
Lives alone with regular daytime assistance	0.24	1.271	(1.139-1.419)
Lives alone with occasional/short term assistance	0.359	1.433	(1.325-1.549)
Lives with other person(s) with regular nighttime assistance	0.137	1.147	(1.053-1.249)
Medication Assistance: Caregiver currently provides	-0.066 ^a	0.936	(0.882-0.993)
Medication Assistance: Caregiver training/support needed	0.173	1.189	(1.096-1.289)
Meal prep: Unable to reheat delivered meals	1.07	2.917	(2.801-3.037)
Change in medical or treatment regimen in past 14 days	0.096 ^a	1.101	(1.018-1.190)
Age: 18-64	-0.129	0.879	(0.830-0.931)
Age: 75-84	-0.066	0.936	(0.896-0.977)
Age: 85 and over	-0.312	0.732	(0.698-0.768)

Table 11: Improvement in Light Meal Preparation (continued)

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Ambulation/Locomotion: One-handed device on all surfaces	-0.083 ^b	0.920	(0.842-1.005)
Ambulation/Locomotion: Two-handed device/human assist on steps	-0.222	0.801	(0.736-0.872)
Ambulation/Locomotion: Walks only with supervision or assist	-0.255	0.775	(0.707-0.850)
Ambulation/Locomotion: Chairfast or bedfast	-0.778	0.459	(0.410-0.514)
Confused: In new or complex situations	-0.07	0.933	(0.895-0.972)
Confused: Sometimes	-0.153	0.859	(0.803-0.918)
Confused: Constantly	-0.43	0.651	(0.563-0.752)
Dyspnea: Walking more than 20 feet, climbing stairs	0.098	1.103	(1.055-1.154)
Dyspnea: Moderate exertion	0.068	1.070	(1.022-1.121)
Dyspnea: Minimal to no exertion	0.189	1.208	(1.137-1.284)
Eating: Requires set up, intermittent assist or modified consistency	-0.053	0.949	(0.915-0.983)
Eating: Unable to feed self and must be assisted throughout meal	0.013 ^c	1.014	(0.901-1.140)
Eating: Requires tube feedings, or no nutrients orally or via tube	-0.207 ^c	0.813	(0.613-1.079)
Urinary Incontinence: Occasional stress incontinence	0.116	1.123	(1.037-1.216)
Urinary Incontinence: Day or night	0.036 ^c	1.036	(0.931-1.153)
Urinary Incontinence: Day and night	0.048 ^c	1.049	(0.977-1.128)
Difficulty in Speech: Minimal	-0.087	0.916	(0.879-0.955)
Difficulty in Speech: Moderate	-0.135	0.873	(0.808-0.944)
Difficulty in Speech: Severe to nonresponsive	-0.3	0.741	(0.644-0.852)
Toilet Transferring: To/from/on/off toilet with human assist	0.087	1.091	(1.044-1.141)
Toilet Transferring: Able to self-transfer to bedside commode	0.055 ^c	1.056	(0.981-1.137)
Toilet Transferring: Unable to transfer to/from toilet or commode	-0.094 ^c	0.911	(0.808-1.026)
Patient Overall Status: Temporary high health risk	0.085	1.088	(1.039-1.140)
Patient Overall Status: Fragile health	-0.046 ^b	0.955	(0.904-1.009)
Patient Overall Status: Serious progressive conditions	-0.209	0.811	(0.740-0.890)
Management of Oral Meds: Advance dose prep/chart needed	-0.126	0.881	(0.828-0.938)
Management of Oral Meds: Reminders needed	-0.273	0.761	(0.707-0.819)
Management of Oral Meds: Unable	-0.497	0.608	(0.560-0.661)
Prior Functioning: Needed assistance with household tasks	-0.266	0.767	(0.743-0.791)
Prior Management of Injectable Meds: Not applicable	0.083	1.086	(1.043-1.132)
Conditions Prior to Treatment: Severe memory loss	-0.138	0.871	(0.824-0.921)
Prior Management of Oral Meds: Needed assistance	-0.176	0.838	(0.809-0.869)
Prior Functioning: Needed assistance with self care	-0.122	0.885	(0.852-0.920)
Frequency of Pain: Pain does not interfere with activity	0.119	1.127	(1.060-1.198)
Frequency of Pain: Less often than daily	0.056 ^b	1.057	(0.996-1.122)
Frequency of Pain: Daily, but not constant	0.101	1.106	(1.059-1.155)
Frequency of Pain: Constant	0.178	1.194	(1.123-1.270)
Payment Source: All Medicaid	-0.35	0.705	(0.656-0.757)
Use of Telephone: Able to use specially adapted telephone	-0.053 ^b	0.949	(0.896-1.005)
Use of Telephone: Able to answer but difficulty placing calls	-0.182	0.834	(0.786-0.884)

Table 11: Improvement in Light Meal Preparation (continued)

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Use of Telephone: Limited ability to answer or converse	-0.215	0.806	(0.755-0.861)
Use of Telephone: Unable to answer but listens with assistance	-0.549	0.577	(0.520-0.641)
Use of Telephone: Totally unable	-0.487	0.614	(0.549-0.688)
PHQ-2 Loss of Interest: Several days in past 2 weeks	-0.058 ^a	0.944	(0.901-0.989)
PHQ-2 Loss of Interest: More than half of days in past 2 weeks	-0.015 ^c	0.985	(0.899-1.080)
PHQ-2 Loss of Interest: Nearly every day in past 2 weeks	-0.149	0.862	(0.780-0.952)
Pressure ulcer assessment indicates risk	-0.164	0.849	(0.816-0.884)
Pressure Ulcer Present: Total Number Stage II or higher	-0.126	0.882	(0.827-0.939)
Risk for Hospitalization: Taking five or more medications	0.046 ^a	1.047	(1.002-1.093)
Supervision and Safety Assistance: Caregiver currently provides	-0.131	0.877	(0.845-0.911)
Surgical Wound Present	0.302	1.352	(1.262-1.449)
Status of Surgical Wound: Fully granulating	0.092 ^b	1.096	(0.991-1.213)
Status of Surgical Wound: Early/partial granulation	0.341	1.406	(1.298-1.523)
Status of Surgical Wound: Not healing	0.322	1.379	(1.244-1.530)
Status of Stasis Ulcer: Fully granulating	0.028 ^c	1.028	(0.582-1.817)
Status of Stasis Ulcer: Early/partial granulation	-0.325	0.722	(0.574-0.909)
Status of Stasis Ulcer: Not healing	-0.275	0.759	(0.626-0.921)
Therapy Amounts: Low	0.086	1.089	(1.028-1.154)
Therapy Amounts: Medium	0.287	1.333	(1.275-1.393)
Therapy Amounts: High	0.347	1.414	(1.343-1.490)
Episode Timing: Later	-0.292	0.746	(0.693-0.804)
Toilet Hygiene Assistance: Needs supplies laid out	0.013 ^c	1.013	(0.967-1.061)
Toilet Hygiene Assistance: Needs assistance	-0.146	0.864	(0.815-0.917)
Toilet Hygiene Assistance: Entirely dependent	-0.474	0.623	(0.550-0.705)
Ability to Dress Upper Body: Needs clothing laid out	-0.137	0.872	(0.811-0.937)
Ability to Dress Upper Body: Needs assistance putting on clothing	-0.311	0.733	(0.678-0.792)
Ability to Dress Upper Body: Entirely dependent upon someone else	-0.444	0.641	(0.563-0.731)
Behavioral: Verbally disruptive/inappropriate	-0.259	0.772	(0.657-0.906)
Vision: Partially impaired	-0.161	0.851	(0.818-0.886)
Vision: Severely impaired	-0.335	0.716	(0.631-0.812)
Constant	0.833	2.301	

Number of Risk Factors: 110

Developmental Sample R² = 0.244

Developmental Sample C-statistic = 0.788

Validation Sample R² = 0.788

Validation Sample C-statistic = 0.786

Table 11: Improvement in Light Meal Preparation (continued)

¹ SOC = Start of Care, ROC = Resumption of Care after inpatient stay. Risk factors values are based on SOC/ROC assessment values for the episode of care.

² Most risk factors take on the values 0 and 1; 1 denotes the presence of the attribute and 0 denotes its absence. In virtually all cases, each response option for an OASIS item is a risk factor. In a small number of cases (e.g., number of pressure ulcers at Stage III), the actual number provided in the assessment is used.

³ Because all response option values for an OASIS item are included as risk factors in a model even if only one option value is statistically significant, the following superscripts are used to denote the statistical significance for each risk factor coefficient:

Blank = significant at probability < .01

a = significant at .01 < probability < .05

b = significant at .05 < probability < .10

c = not significant, probability > .10

Table 12: Improvement in Lower Body Dressing

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Acute condition: Cardiac/peripheral vascular	0.042 ^a	1.042	(1.005-1.081)
Acute condition: Orthopedic	0.043 ^a	1.044	(1.005-1.084)
ADL Assistance: Caregiver provides	-0.168	0.845	(0.796-0.899)
ADL Assistance: Caregiver training/support needed	-0.166	0.847	(0.783-0.917)
Anxiety: Less often than daily	0.023 ^c	1.023	(0.984-1.063)
Anxiety: Daily, but not constantly	0.115	1.122	(1.070-1.176)
Anxiety: All of the time	0.295	1.343	(1.170-1.542)
Bathing: With the use of devices in shower/tub	-0.088 ^c	0.916	(0.719-1.167)
Bathing: With intermittent assistance in shower/tub	-0.048 ^c	0.953	(0.751-1.210)
Bathing: Participates with supervision in shower/tub	-0.166 ^c	0.847	(0.666-1.077)
Bathing: Independent at sink, in chair, or on commode	0.019 ^c	1.020	(0.798-1.302)
Bathing: Participates with assist at sink, in chair, or commode	-0.233 ^b	0.793	(0.621-1.011)
Bathing: Unable to participate; bathed totally by another	-0.43	0.651	(0.502-0.843)
Frequency of ADL /IADL Assistance: At least daily	0.041 ^c	1.042	(0.915-1.185)
Frequency of ADL /IADL Assistance: Three or more times per week	0.256	1.292	(1.125-1.484)
Frequency of ADL/IADL Assistance: One or two times per week	0.277	1.319	(1.135-1.532)
Frequency of ADL /IADL Assistance: Received less than weekly	0.226 ^a	1.254	(1.033-1.522)
Chronic Conditions: Chronic patient with caregiver	-0.105	0.900	(0.859-0.943)
Start of Care-Further visits planned	0.092	1.096	(1.038-1.158)
Management of Equipment: Caregiver currently provides	-0.069	0.934	(0.891-0.978)
Patient is male	0.046	1.047	(1.012-1.084)
Grooming: Grooming utensils must be placed within reach	-0.027 ^c	0.973	(0.926-1.023)
Grooming: Assistance needed	-0.052 ^c	0.950	(0.892-1.011)
Grooming: Entirely dependent upon someone else	-0.226	0.798	(0.702-0.907)
Home Care Diagnosis: Circulatory system diseases	0.042 ^a	1.043	(1.005-1.082)
Home Care Diagnosis: Intracranial injury	0.434 ^a	1.543	(1.108-2.148)
Home Care Diagnosis: Fractures	0.102	1.107	(1.037-1.183)
Home Care Diagnosis: Mental diseases	-0.073	0.929	(0.888-0.972)
Home Care Diagnosis: Neoplasms	-0.172	0.842	(0.788-0.901)
Home Care Diagnosis: Nervous system diseases	-0.142	0.868	(0.833-0.904)
Home Care Diagnosis: Respiratory system diseases	0.103	1.108	(1.059-1.160)
Home Care Diagnosis: Skin/subcutaneous diseases	-0.073 ^a	0.930	(0.866-0.998)
Urinary incontinence/catheter	-0.183	0.833	(0.778-0.892)
Management of Injectable Medications: None prescribed	0.13	1.139	(1.095-1.185)
Discharged from inpatient setting within past 14 days	0.168	1.183	(1.090-1.283)
Discharged from long-term care hospital (LTCH) past 14 days	0.157 ^a	1.169	(1.001-1.366)
Discharged from inpatient rehab hospital/unit (IRF) past 14 days	0.122	1.130	(1.035-1.233)
Discharged from skilled nursing facility (SNF / TCU) past 14 days	0.088 ^a	1.092	(1.010-1.181)
Discharged from Short-stay acute hospital (IPP S) past 14 days	0.155	1.167	(1.082-1.259)
Receiving intravenous or infusion therapy	0.139 ^a	1.150	(1.028-1.286)

Table 12: Improvement in Lower Body Dressing (continued)

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Ability to Dress Lower Body: Assist needed putting on clothing	0.618	1.855	(1.774-1.940)
Ability to Dress Lower Body: Entirely dependent upon someone else	2.365	10.644	(9.646-11.746)
Lives alone with round the clock assistance	0.258	1.295	(1.225-1.369)
Lives in congregate situation with around the clock assistance	0.078	1.082	(1.020-1.147)
Lives alone with occasional/short term assistance	0.235	1.265	(1.174-1.364)
Medication Assistance: Caregiver training/support needed	0.232	1.262	(1.183-1.346)
Meal prep: Unable to plan/prepare light meals	0.027 ^c	1.027	(0.975-1.083)
Meal prep: Unable to reheat delivered meals	-0.111	0.895	(0.842-0.950)
Change in medical or treatment regimen in past 14 days	0.207	1.231	(1.166-1.298)
Age: 18-64	-0.115	0.892	(0.843-0.943)
Age: 75-84	0.002 ^c	1.002	(0.960-1.046)
Age: 85 and over	-0.126	0.881	(0.840-0.924)
Ambulation/Locomotion: One-handed device on all surfaces	-0.155	0.856	(0.769-0.953)
Ambulation/Locomotion: Two-handed device/human assist on steps	-0.281	0.755	(0.679-0.840)
Ambulation/Locomotion: Walks only with supervision or assist	-0.347	0.707	(0.632-0.790)
Ambulation/Locomotion: Chairfast or bedfast	-1.039	0.354	(0.311-0.403)
Bowel Incontinence Frequency: Less than once a week	-0.030 ^c	0.971	(0.901-1.046)
Bowel Incontinence Frequency: One to three times a week	-0.027 ^c	0.973	(0.903-1.049)
Bowel Incontinence Frequency: Four to six times a week or more	-0.126	0.882	(0.810-0.960)
Confused: In new or complex situations	0.019 ^c	1.019	(0.979-1.062)
Confused: Sometimes	-0.032 ^c	0.969	(0.910-1.031)
Confused: Constantly	-0.212	0.809	(0.718-0.913)
Urinary Incontinence: Occasional stress incontinence	0.099 ^a	1.104	(1.022-1.192)
Urinary Incontinence: Day or night	0.090 ^b	1.094	(0.987-1.212)
Urinary Incontinence: Day and night	-0.027 ^c	0.973	(0.908-1.043)
Difficulty in Speech: Minimal	-0.059	0.942	(0.905-0.982)
Difficulty in Speech: Moderate	-0.072 ^b	0.931	(0.865-1.002)
Difficulty in Speech: Severe to nonresponsive	-0.141 ^a	0.869	(0.771-0.978)
Toilet Transferring: To/from/on/off toilet with human assist	0.074	1.077	(1.031-1.125)
Toilet Transferring: Able to self-transfer to bedside commode	0.13	1.139	(1.058-1.227)
Toilet Transferring: Unable to transfer to/from toilet or commode	-0.058 ^c	0.943	(0.841-1.058)
Transferring: With minimal human assist or with device	-0.1	0.905	(0.847-0.966)
Transferring: Bears weight and pivots only	-0.144	0.866	(0.797-0.941)
Transferring: Unable or bedfast	-0.261	0.770	(0.683-0.868)
Patient Overall Status: Temporary high health risk	0.115	1.122	(1.072-1.173)
Patient Overall Status: Fragile health	-0.028 ^c	0.972	(0.922-1.026)
Patient Overall Status: Serious progressive conditions	-0.283	0.754	(0.689-0.825)
Management of Oral Meds: Advance dose prep/chart needed	0.019 ^c	1.019	(0.969-1.072)
Management of Oral Meds: Reminders needed	-0.028 ^c	0.973	(0.911-1.038)

Table 12: Improvement in Lower Body Dressing (continued)

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Management of Oral Meds: Unable	-0.209	0.811	(0.751-0.876)
Respiratory Treatments: Oxygen	-0.133	0.876	(0.829-0.925)
Prior Functioning: Needed assistance with ambulation	-0.074	0.929	(0.893-0.966)
Prior Functioning: Needed assistance with household tasks	-0.103	0.902	(0.873-0.931)
Prior Management of Oral Meds: Needed assistance	-0.142	0.868	(0.837-0.900)
Prior Functioning: Needed assistance with self care	-0.268	0.765	(0.732-0.799)
Frequency of Pain: Pain does not interfere with activity	0.049 ^c	1.051	(0.989-1.116)
Frequency of Pain: Less often than daily	0.037 ^c	1.037	(0.979-1.100)
Frequency of Pain: Daily, but not constant	0.078	1.081	(1.036-1.128)
Frequency of Pain: Constant	0.034 ^c	1.034	(0.973-1.099)
Payment Source: All Medicaid	-0.109	0.897	(0.835-0.962)
Use of Telephone: Able to use specially adapted telephone	-0.033 ^c	0.967	(0.914-1.023)
Use of Telephone: Able to answer but difficulty placing calls	-0.112	0.894	(0.844-0.947)
Use of Telephone: Limited ability to answer or converse	-0.079 ^a	0.924	(0.867-0.986)
Use of Telephone: Unable to answer but listens with assistance	-0.366	0.693	(0.632-0.761)
Use of Telephone: Totally unable	-0.338	0.713	(0.645-0.789)
PHQ-2 Depression: Several days in past 2 weeks	-0.064	0.938	(0.898-0.979)
PHQ-2 Depression: More than half of days in past 2 weeks	-0.061 ^c	0.941	(0.863-1.024)
PHQ-2 Depression: Nearly every day in past 2 weeks	0.007 ^c	1.007	(0.914-1.109)
Pressure ulcer present: Stage II or higher	-0.245	0.783	(0.710-0.863)
Pressure ulcer assessment indicates risk	-0.203	0.816	(0.785-0.849)
Risk for Hospitalization: Presence of frailty indicators	0.067	1.069	(1.030-1.111)
Surgical Wound Present	0.174	1.190	(1.108-1.278)
Status of Surgical Wound: Fully granulating	0.057 ^c	1.059	(0.953-1.176)
Status of Surgical Wound: Early/partial granulation	0.222	1.249	(1.150-1.356)
Status of Surgical Wound: Not healing	0.316	1.372	(1.231-1.530)
Stasis Ulcer Present	-0.387	0.679	(0.595-0.775)
Therapy Amounts: Low	0.106	1.112	(1.050-1.177)
Therapy Amounts: Medium	0.361	1.435	(1.373-1.498)
Therapy Amounts: High	0.481	1.618	(1.539-1.701)
Episode Timing: Later	-0.299	0.741	(0.692-0.794)
Toilet Hygiene Assistance: Needs supplies laid out	-0.039 ^b	0.962	(0.919-1.006)
Toilet Hygiene Assistance: Needs assistance	-0.277	0.758	(0.716-0.803)
Toilet Hygiene Assistance: Entirely dependent	-0.504	0.604	(0.536-0.681)
Ability to Dress Upper Body: Needs clothing laid out	-0.013 ^c	0.987	(0.921-1.058)
Ability to Dress Upper Body: Needs assistance putting on clothing	-0.23	0.795	(0.736-0.859)
Ability to Dress Upper Body: Entirely dependent upon someone else	-0.356	0.700	(0.606-0.808)
Vision: Partially impaired	-0.08	0.923	(0.889-0.960)
Vision: Severely impaired	-0.120 ^a	0.887	(0.788-0.998)
Constant	0.979	2.661	

Table 12: Improvement in Lower Body Dressing (continued)

Number of Risk Factors: 118

Developmental Sample $R^2 = 0.181$

Developmental Sample C-statistic = 0.754

Validation Sample $R^2 = 0.180$

Validation Sample C-statistic = 0.753

- ¹ SOC = Start of Care, ROC = Resumption of Care after inpatient stay. Risk factors values are based on SOC/ROC assessment values for the episode of care.
- ² Most risk factors take on the values 0 and 1; 1 denotes the presence of the attribute and 0 denotes its absence. In virtually all cases, each response option for an OASIS item is a risk factor. In a small number of cases (e.g., number of pressure ulcers at Stage III), the actual number provided in the assessment is used.
- ³ Because all response option values for an OASIS item are included as risk factors in a model even if only one option value is statistically significant, the following superscripts are used to denote the statistical significance for each risk factor coefficient:

Blank = significant at probability < .01

a = significant at .01 < probability < .05

b = significant at .05 < probability < .10

c = not significant, probability > .10

Table 13: Improvement in Management of Oral Medications

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Acute condition: Cardiac/peripheral vascular	0.079	1.082	(1.045-1.120)
Acute condition: Enteral/parenteral nutrition	-0.352	0.704	(0.544-0.909)
Acute condition: Oxygen therapy	-0.215	0.806	(0.765-0.850)
Acute condition: Orthopedic	0.079	1.082	(1.041-1.125)
Acute condition: Open wound/lesion	-0.106	0.900	(0.831-0.974)
Advocacy Assistance: Uncertain/unlikely to be provided	-0.275	0.760	(0.650-0.888)
Anxiety: Less often than daily	0.050 ^a	1.051	(1.010-1.094)
Anxiety: Daily, but not constantly	0.172	1.188	(1.131-1.247)
Anxiety: All of the time	0.296	1.345	(1.173-1.542)
Bathing: With the use of devices in shower/tub	0.209	1.232	(1.117-1.359)
Bathing: With intermittent assistance in shower/tub	0.086 ^b	1.090	(0.997-1.193)
Bathing: Participates with supervision in shower/tub	0.085 ^b	1.089	(1.000-1.187)
Bathing: Independent at sink, in chair, or on commode	0.323	1.382	(1.250-1.527)
Bathing: Participates with assist at sink, in chair, or commode	0.162	1.176	(1.073-1.288)
Frequency of ADL /IADL Assistance: At least daily	-0.326	0.721	(0.624-0.834)
Frequency of ADL /IADL Assistance: Three or more times per week	-0.189 ^a	0.828	(0.709-0.967)
Frequency of ADL/IADL Assistance: One or two times per week	0.001 ^c	1.001	(0.846-1.184)
Frequency of ADL /IADL Assistance: Received less than weekly	0.051 ^c	1.052	(0.847-1.307)
Chronic Conditions: Dependence in living skills	-0.157	0.854	(0.818-0.893)
Chronic Conditions: Dependence in medication administration	-0.322	0.725	(0.674-0.779)
Chronic Conditions: Impaired ambulation/mobility	0.124	1.132	(1.076-1.190)
Chronic Conditions: Dependence in personal care	-0.082 ^a	0.921	(0.863-0.984)
Start of Care-Further visits planned	0.091	1.096	(1.040-1.155)
Grooming: Grooming utensils must be placed within reach	0.037 ^c	1.038	(0.980-1.098)
Grooming: Assistance needed	0.097	1.101	(1.027-1.182)
Grooming: Entirely dependent upon someone else	-0.092 ^c	0.912	(0.792-1.051)
Home Care Diagnosis: Blood diseases	0.072 ^a	1.075	(1.008-1.146)
Home Care Diagnosis: Digestive system diseases	0.062 ^a	1.064	(1.009-1.121)
Home Care Diagnosis: Fractures	0.119	1.127	(1.053-1.206)
Home Care Diagnosis: Mental diseases	-0.200	0.819	(0.781-0.858)
Home Care Diagnosis: Nervous system diseases	-0.156	0.856	(0.819-0.895)
Home Care Diagnosis: Respiratory system diseases	0.066	1.068	(1.020-1.119)
Behavioral: Disruptive/inappropriate behavior	-0.327	0.721	(0.576-0.903)
Ability to Dress Lower Body: Needs clothing/shoes laid out	0.155	1.167	(1.068-1.277)
Ability to Dress Lower Body: Assist needed putting on clothing	0.194	1.214	(1.112-1.325)
Ability to Dress Lower Body: Entirely dependent upon someone else	0.284	1.329	(1.184-1.492)
Lives alone with round the clock assistance	0.142	1.153	(1.089-1.220)
Lives in congregate situation with around the clock assistance	-1.054	0.349	(0.326-0.373)
Lives in congregate situation with regular daytime assistance	-0.652	0.521	(0.354-0.767)

Table 13: Improvement in Management of Oral Medications (continued)

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Lives in congregate situation-occasional/short term assistance	-0.627	0.534	(0.416-0.687)
Lives alone with occasional/short term assistance	0.139	1.149	(1.075-1.227)
Urinary incontinence/catheter: Incontinent	-0.099	0.906	(0.844-0.973)
Medication Assistance: None needed	0.228	1.256	(1.148-1.374)
Medication Assistance: Caregiver currently provides	-0.293	0.746	(0.707-0.788)
Medication Assistance: Uncertain/unlikely to be provided	0.130 ^a	1.139	(1.001-1.296)
Age: 18-64	-0.036 ^c	0.965	(0.906-1.027)
Age: 75-84	-0.210	0.811	(0.775-0.848)
Age: 85 and over	-0.439	0.645	(0.614-0.677)
Ambulation/Locomotion: One-handed device on all surfaces	-0.067 ^c	0.935	(0.858-1.019)
Ambulation/Locomotion: Two-handed device/human assist on steps	-0.179	0.836	(0.767-0.912)
Ambulation/Locomotion: Walks only with supervision or assist	-0.213	0.808	(0.735-0.888)
Ambulation/Locomotion: Chairfast or bedfast	-0.601	0.548	(0.487-0.617)
Cognitive Functioning: Requires prompting under stress	-0.120	0.887	(0.844-0.932)
Cognitive Functioning: Requires assist in special circumstances	-0.141	0.868	(0.804-0.938)
Cognitive Function: Requires considerable assist/totally dependent	-0.101 ^c	0.904	(0.784-1.042)
Confused: In new or complex situations	-0.157	0.855	(0.815-0.896)
Confused: Sometimes	-0.427	0.652	(0.607-0.701)
Confused: Constantly	-0.559	0.572	(0.489-0.668)
Dyspnea: Walking more than 20 feet, climbing stairs	0.046 ^b	1.047	(0.999-1.097)
Dyspnea: Moderate exertion	0.084	1.087	(1.036-1.141)
Dyspnea: Minimal to no exertion	0.269	1.309	(1.230-1.393)
Eating: Requires set up, intermittent assist or modified consistency	0.098	1.102	(1.061-1.146)
Eating: Unable to feed self and must be assisted throughout meal	0.098 ^c	1.103	(0.980-1.240)
Eating: Requires tube feedings, or no nutrients orally or via tube	-0.370 ^a	0.691	(0.514-0.929)
Urinary Incontinence: Occasional stress incontinence	0.106 ^a	1.112	(1.026-1.207)
Urinary Incontinence: Day or night	-0.018 ^c	0.982	(0.881-1.095)
Urinary Incontinence: Day and night	-0.019 ^c	0.982	(0.912-1.057)
Difficulty in Speech: Minimal	-0.134	0.875	(0.838-0.913)
Difficulty in Speech: Moderate	-0.217	0.805	(0.742-0.873)
Difficulty in Speech: Severe to nonresponsive	-0.449	0.639	(0.552-0.738)
Toilet Transferring: To/from/on/off toilet with human assist	0.102	1.107	(1.056-1.162)
Toilet Transferring: Able to self-transfer to bedside commode	0.213	1.237	(1.144-1.339)
Toilet Transferring: Unable to transfer to/from toilet or commode	0.115 ^b	1.122	(0.992-1.269)
Patient Overall Status: Temporary high health risk	0.174	1.190	(1.132-1.252)
Patient Overall Status: Fragile health	0.071 ^a	1.073	(1.013-1.138)
Patient Overall Status: Serious progressive conditions	-0.197	0.821	(0.746-0.904)
Management of Oral Meds: Reminders needed	1.255	3.507	(3.343-3.680)
Management of Oral Meds: Unable	1.449	4.258	(4.007-4.525)
Conditions Prior to Treatment: Severe memory loss	-0.210	0.810	(0.767-0.856)

Table 13: Improvement in Management of Oral Medications (continued)

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Prior Management of Oral Meds: Needed assistance	-0.369	0.691	(0.657-0.728)
Prior Functioning: Needed assistance with self care	-0.081	0.922	(0.879-0.968)
Frequency of Pain: Pain does not interfere with activity	0.085	1.089	(1.024-1.158)
Frequency of Pain: Less often than daily	0.120	1.127	(1.061-1.197)
Frequency of Pain: Daily, but not constant	0.179	1.196	(1.145-1.250)
Frequency of Pain: Constant	0.285	1.329	(1.246-1.419)
Use of Telephone: Able to use specially adapted telephone	-0.115	0.892	(0.842-0.944)
Use of Telephone: Able to answer but difficulty placing calls	-0.283	0.753	(0.711-0.799)
Use of Telephone: Limited ability to answer or converse	-0.295	0.745	(0.695-0.797)
Use of Telephone: Unable to answer but listens with assistance	-0.649	0.523	(0.470-0.581)
Use of Telephone: Totally unable	-0.587	0.556	(0.495-0.624)
PHQ-2 Loss of Interest: Several days in past 2 weeks	-0.058 ^a	0.944	(0.900-0.989)
PHQ-2 Loss of Interest: More than half of days in past 2 weeks	-0.062 ^c	0.940	(0.858-1.029)
PHQ-2 Loss of Interest: Nearly every day in past 2 weeks	-0.097 ^b	0.908	(0.819-1.007)
Assistance with Medical treatments: None needed	-0.109	0.897	(0.862-0.932)
Pressure ulcer assessment indicates risk	-0.064	0.938	(0.900-0.978)
Pressure Ulcer: Stage II ulcer(s) present	-0.214	0.807	(0.722-0.902)
Risk for Hospitalization: Presence of frailty indicators	0.056	1.058	(1.017-1.100)
Supervision and Safety Assistance: Caregiver currently provides	-0.123	0.884	(0.851-0.918)
Status of Surgical Wound: Fully granulating	0.362	1.436	(1.316-1.566)
Status of Surgical Wound: Early/partial granulation	0.610	1.840	(1.732-1.954)
Status of Surgical Wound: Not healing	0.525	1.691	(1.538-1.860)
Number of therapy visits: 1-2	0.019 ^c	1.019	(0.953-1.089)
Number of therapy visits: 3-4	-0.004 ^c	0.996	(0.907-1.092)
Number of therapy visits: 5-6	0.055 ^b	1.057	(0.993-1.125)
Number of therapy visits: 7-8	0.079 ^a	1.082	(1.018-1.150)
Number of therapy visits: 9-10	0.152	1.164	(1.095-1.238)
Number of therapy visits: 11-12	0.061 ^b	1.063	(0.995-1.136)
Number of therapy visits: 13-14	0.017 ^c	1.017	(0.947-1.093)
Number of therapy visits: 15-16	0.096 ^a	1.101	(1.015-1.194)
Number of therapy visits: 17-18	0.049 ^c	1.050	(0.952-1.157)
Number of therapy visits: 19-20	0.085 ^c	1.088	(0.979-1.210)
Toilet Hygiene Assistance: Needs supplies laid out	0.067 ^a	1.069	(1.016-1.124)
Toilet Hygiene Assistance: Needs assistance	-0.045 ^c	0.956	(0.898-1.019)
Toilet Hygiene Assistance: Entirely dependent	-0.384	0.681	(0.599-0.775)
Ability to Dress Upper Body: Needs clothing laid out	-0.051 ^c	0.951	(0.875-1.032)
Ability to Dress Upper Body: Needs assistance putting on clothing	-0.214	0.807	(0.738-0.883)
Ability to Dress Upper Body: Entirely dependent upon someone else	-0.262	0.770	(0.661-0.897)
Vision: Partially impaired	-0.099	0.906	(0.870-0.942)
Vision: Severely impaired	-0.344	0.709	(0.626-0.802)
Constant	0.831	2.296	

Table 13: Improvement in Management of Oral Medications (continued)

Number of Risk Factors: 99

Developmental Sample $R^2 = 0.196$

Developmental Sample C-statistic = 0.755

Validation Sample $R^2 = 0.192$

Validation Sample C-statistic = 0.752

¹ SOC = Start of Care, ROC = Resumption of Care after inpatient stay. Risk factors values are based on SOC/ROC assessment values for the episode of care.

² Most risk factors take on the values 0 and 1; 1 denotes the presence of the attribute and 0 denotes its absence. In virtually all cases, each response option for an OASIS item is a risk factor. In a small number of cases (e.g., number of pressure ulcers at Stage III), the actual number provided in the assessment is used.

³ Because all response option values for an OASIS item are included as risk factors in a model even if only one option value is statistically significant, the following superscripts are used to denote the statistical significance for each risk factor coefficient:

Blank = significant at probability < .01

a = significant at .01 < probability < .05

b = significant at .05 < probability < .10

c = not significant, probability > .10

Table 14: Improvement in Pain Interfering with Activity

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Acute condition: Cardiac/peripheral vascular	0.066	1.068	(1.036-1.102)
Acute condition: Gastrointestinal disorder	0.089	1.094	(1.045-1.144)
Acute condition: Neurologic	0.056 ^a	1.058	(1.009-1.110)
Acute condition: Oxygen therapy	-0.165	0.848	(0.814-0.884)
Anxiety: Less often than daily	-0.094	0.910	(0.881-0.941)
Anxiety: Daily, but not constantly	-0.137	0.872	(0.838-0.908)
Anxiety: All of the time	-0.166	0.847	(0.755-0.949)
Chronic Conditions: Chronic patient with caregiver	-0.073	0.930	(0.900-0.960)
Chronic Conditions: Impaired ambulation/mobility	-0.059	0.943	(0.907-0.980)
Chronic Conditions: Chronic Pain	-0.280	0.756	(0.728-0.785)
Chronic Conditions: Dependence in personal care	-0.128	0.880	(0.847-0.914)
Start of Care-Further visits planned	0.250	1.285	(1.226-1.345)
Home Care Diagnosis: Circulatory system diseases	0.035 ^a	1.036	(1.004-1.068)
Home Care Diagnosis: Intracranial injury	0.349 ^a	1.418	(1.055-1.907)
Home Care Diagnosis: Ill-defined conditions	-0.063	0.939	(0.911-0.968)
Home Care Diagnosis: Musculoskeletal system diseases	-0.153	0.858	(0.833-0.884)
Home Care Diagnosis: Nervous system diseases	-0.117	0.889	(0.855-0.925)
Lives in congregate situation with around the clock assistance	0.210	1.234	(1.162-1.310)
Age: 18-64	-0.290	0.748	(0.720-0.778)
Ambulation/Locomotion: One-handed device on all surfaces	-0.206	0.814	(0.766-0.866)
Ambulation/Locomotion: Two-handed device/human assist on steps	-0.332	0.718	(0.675-0.762)
Ambulation/Locomotion: Walks only with supervision or assist	-0.291	0.748	(0.698-0.801)
Ambulation/Locomotion: Chairfast or bedfast	-0.507	0.602	(0.551-0.658)
Eating: Requires set up, intermittent assist or modified consistency	0.054	1.056	(1.022-1.091)
Eating: Unable to feed self and must be assisted throughout meal	0.046 ^c	1.047	(0.941-1.165)
Eating: Requires tube feedings, or no nutrients orally or via tube	-0.231 ^a	0.793	(0.661-0.952)
Difficulty in Speech: Minimal	-0.031 ^b	0.970	(0.937-1.005)
Difficulty in Speech: Moderate	0.101	1.106	(1.027-1.192)
Difficulty in Speech: Severe to nonresponsive	0.238	1.268	(1.110-1.449)
Toilet Transferring: To/from/on/off toilet with human assist	0.110	1.116	(1.073-1.160)
Toilet Transferring: Able to self-transfer to bedside commode	0.074 ^a	1.077	(1.008-1.150)
Toilet Transferring: Unable to transfer to/from toilet or commode	0.075 ^c	1.078	(0.969-1.199)
Patient Overall Status: Temporary high health risk	0.109	1.115	(1.076-1.156)
Patient Overall Status: Fragile health	-0.060	0.942	(0.900-0.985)
Patient Overall Status: Serious progressive conditions	-0.291	0.747	(0.689-0.810)
Management of Oral Meds: Advance dose prep/chart needed	0.145	1.156	(1.116-1.198)
Management of Oral Meds: Reminders needed	0.153	1.165	(1.108-1.225)
Management of Oral Meds: Unable	0.084	1.088	(1.029-1.150)
Frequency of Pain: Less often than daily	0.664	1.943	(1.847-2.044)
Frequency of Pain: Daily, but not constant	0.724	2.062	(1.981-2.146)

Table 14: Improvement in Pain Interfering with Activity (continued)

Risk Factor Measured at SOC/ROC ^{1,2}	Coefficient ³	Odds ratio ³	(95% CI)
Frequency of Pain: Constant	1.693	5.434	(5.126-5.761)
Use of Telephone: Able to use specially adapted telephone	0.149	1.161	(1.100-1.225)
Use of Telephone: Able to answer but difficulty placing calls	0.131	1.140	(1.075-1.209)
Use of Telephone: Limited ability to answer or converse	0.174	1.190	(1.113-1.272)
Use of Telephone: Unable to answer but listens with assistance	0.242	1.273	(1.150-1.410)
Use of Telephone: Totally unable	0.372	1.451	(1.296-1.625)
PHQ-2 Depression: Several days in past 2 weeks	-0.133	0.876	(0.844-0.909)
PHQ-2 Depression: More than half of days in past 2 weeks	-0.182	0.834	(0.774-0.898)
PHQ-2 Depression: Nearly every day in past 2 weeks	-0.341	0.711	(0.655-0.772)
Status of Surgical Wound (0-3)	0.098	1.103	(1.086-1.120)
Status of Stasis Ulcer: Fully granulating	-0.170 ^c	0.843	(0.502-1.416)
Status of Stasis Ulcer: Early/partial granulation	-0.289	0.749	(0.622-0.902)
Status of Stasis Ulcer: Not healing	-0.223	0.800	(0.682-0.938)
Number of therapy visits: 1-2	-0.048 ^c	0.953	(0.900-1.010)
Number of therapy visits: 3-4	-0.052 ^c	0.950	(0.878-1.027)
Number of therapy visits: 5-6	0.003 ^c	1.003	(0.953-1.056)
Number of therapy visits: 7--8	0.061 ^a	1.063	(1.011-1.117)
Number of therapy visits: 9-10	0.104	1.110	(1.054-1.168)
Number of therapy visits: 11-12	0.116	1.123	(1.064-1.186)
Number of therapy visits: 13-14	0.229	1.257	(1.186-1.332)
Number of therapy visits: 15-16	0.210	1.234	(1.154-1.320)
Number of therapy visits: 17-18	0.129	1.138	(1.050-1.233)
Number of therapy visits: 19-20	0.101 ^a	1.106	(1.008-1.213)
Toilet Hygiene Assistance: Needs supplies laid out	0.066	1.068	(1.026-1.112)
Toilet Hygiene Assistance: Needs assistance	0.076	1.079	(1.023-1.137)
Toilet Hygiene Assistance: Entirely dependent	0.011 ^c	1.011	(0.904-1.131)
Ability to Dress Upper Body: Needs clothing laid out	0.067	1.069	(1.027-1.113)
Ability to Dress Upper Body: Needs assistance putting on clothing	0.010 ^c	1.010	(0.961-1.061)
Ability to Dress Upper Body: Entirely dependent upon someone else	-0.108 ^a	0.898	(0.814-0.990)
Constant	-0.017 ^c	0.983	

Number of Risk Factors: 69

Developmental Sample R² = 0.053

Validation Sample R² = 0.054

Developmental Sample C-statistic = 0.638

Validation Sample C-statistic = 0.639

¹ SOC = Start of Care, ROC = Resumption of Care after inpatient stay. Risk factors values are based on SOC/ROC assessment values for the episode of care.

² Most risk factors take on the values 0 and 1; 1 denotes the presence of the attribute and 0 denotes its absence. In virtually all cases, each response option for an OASIS item is a risk factor. In a small number of cases (e.g., number of pressure ulcers at Stage III), the actual number provided in the assessment is used.

³ Because all response option values for an OASIS item are included as risk factors in a model even if only one option value is statistically significant, the following superscripts are used to denote the statistical significance for each risk factor coefficient:

Blank = significant at probability<.01
a = significant at .01<probability<.05
b = significant at .05<probability<.10
c = not significant, probability>.10

Table 15: Improvement in Phone Use

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Acute condition: Enteral/parenteral nutrition	-0.236 ^a	0.789	(0.634-0.983)
Advocacy Assistance: Caregiver training/support needed	0.188	1.207	(1.075-1.355)
Behavioral: Physical aggression to self/others	-0.401	0.670	(0.519-0.865)
Anxiety: Less often than daily	0.038 ^c	1.038	(0.980-1.100)
Anxiety: Daily, but not constantly	0.22	1.246	(1.164-1.335)
Anxiety: All of the time	0.474	1.607	(1.316-1.961)
Frequency of ADL /IADL Assistance: At least daily	-0.312 ^a	0.732	(0.574-0.933)
Frequency of ADL /IADL Assistance: Three or more times per week	-0.222 ^b	0.801	(0.615-1.042)
Frequency of ADL/IADL Assistance: One or two times per week	-0.166 ^c	0.847	(0.639-1.123)
Frequency of ADL /IADL Assistance: Received less than weekly	-0.071 ^c	0.931	(0.649-1.336)
Chronic Conditions: Dependence in living skills	-0.121	0.886	(0.826-0.951)
Depression screen indicates need for further evaluation	0.087 ^a	1.091	(1.003-1.187)
Grooming: Grooming utensils must be placed within reach	-0.023 ^c	0.977	(0.891-1.072)
Grooming: Assistance needed	-0.072 ^c	0.931	(0.841-1.030)
Grooming: Entirely dependent upon someone else	-0.307	0.736	(0.640-0.846)
Home Care Diagnosis: Circulatory system diseases	0.11	1.116	(1.056-1.180)
Home Care Diagnosis: Fractures	0.158	1.171	(1.058-1.297)
Home Care Diagnosis: Mental diseases	-0.106	0.899	(0.846-0.956)
Home Care Diagnosis: Nervous system diseases	-0.085	0.918	(0.867-0.973)
Hearing: Mildly to moderately impaired	0.046 ^c	1.047	(0.990-1.107)
Hearing: Severely impaired	-0.339	0.713	(0.616-0.825)
Discharged from psychiatric hospital/unit past 14 days	0.349 ^a	1.418	(1.024-1.964)
Discharged from inpatient rehab hospital/unit (IRF) past 14 days	0.372	1.451	(1.307-1.610)
Discharged from skilled nursing facility (SNF / TCU) past 14 days	0.283	1.327	(1.233-1.427)
Discharged from Short-stay acute hospital (IPP S) past 14 days	0.323	1.382	(1.308-1.460)
Lives in congregate situation with around the clock assistance	-0.135	0.874	(0.811-0.941)
Behavioral: Memory deficit	-0.104	0.901	(0.848-0.957)
Age: 18-64	-0.101 ^b	0.904	(0.814-1.004)
Age: 75-84	-0.082 ^a	0.921	(0.856-0.991)
Age: 85 and over	-0.229	0.795	(0.737-0.858)
Ambulation/Locomotion: One-handed device on all surfaces	0.117 ^c	1.124	(0.956-1.322)
Ambulation/Locomotion: Two-handed device/human assist on steps	0.094 ^c	1.099	(0.939-1.286)
Ambulation/Locomotion: Walks only with supervision or assist	0.043 ^c	1.044	(0.886-1.230)
Ambulation/Locomotion: Chairfast or bedfast	-0.207 ^a	0.813	(0.676-0.977)
Confused: In new or complex situations	-0.074 ^a	0.929	(0.865-0.998)
Confused: Sometimes	-0.263	0.769	(0.701-0.843)
Confused: Constantly	-0.421	0.656	(0.569-0.758)
Dyspnea: Walking more than 20 feet, climbing stairs	0.043 ^c	1.044	(0.973-1.120)
Dyspnea: Moderate exertion	0.028 ^c	1.028	(0.960-1.101)
Dyspnea: Minimal to no exertion	0.186	1.205	(1.108-1.310)

Table 15: Improvement in Phone Use (continued)

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Urinary Incontinence: Occasional stress incontinence	-0.002 ^c	0.998	(0.916-1.088)
Urinary Incontinence: Day or night	-0.110 ^b	0.896	(0.791-1.014)
Urinary Incontinence: Day and night	-0.103	0.902	(0.840-0.968)
Difficulty in Speech: Minimal	-0.169	0.844	(0.788-0.905)
Difficulty in Speech: Moderate	-0.357	0.700	(0.636-0.771)
Difficulty in Speech: Severe to nonresponsive	-0.729	0.482	(0.420-0.554)
Toilet Transferring: To/from/on/off toilet with human assist	0.168	1.182	(1.094-1.278)
Toilet Transferring: Able to self-transfer to bedside commode	0.203	1.225	(1.099-1.367)
Toilet Transferring: Unable to transfer to/from toilet or commode	0.189	1.208	(1.049-1.391)
Patient Overall Status: Temporary high health risk	0.106	1.112	(1.029-1.203)
Patient Overall Status: Fragile health	0.095 ^a	1.099	(1.008-1.199)
Patient Overall Status: Serious progressive conditions	-0.021 ^c	0.979	(0.861-1.113)
Management of Oral Meds: Advance dose prep/chart needed	-0.126 ^a	0.882	(0.783-0.994)
Management of Oral Meds: Reminders needed	-0.255	0.775	(0.680-0.883)
Management of Oral Meds: Unable	-0.441	0.643	(0.559-0.740)
Conditions Prior to Treatment: Disruptive behavior	-0.301	0.740	(0.628-0.873)
Prior Functioning: Needed assistance with household tasks	-0.131	0.877	(0.835-0.921)
Conditions Prior to Treatment: Impaired decision making	-0.069 ^a	0.934	(0.880-0.990)
Conditions Prior to Treatment: Intractable pain	0.098 ^a	1.103	(1.014-1.199)
Prior Management of Oral Meds: Needed assistance	-0.204	0.816	(0.775-0.858)
Conditions Prior to Treatment: Urinary incontinence	-0.076 ^a	0.927	(0.869-0.988)
Frequency of Pain: Pain does not interfere with activity	0.110 ^a	1.117	(1.023-1.219)
Frequency of Pain: Less often than daily	0.078 ^b	1.081	(0.994-1.176)
Frequency of Pain: Daily, but not constant	0.060 ^b	1.062	(0.996-1.132)
Frequency of Pain: Constant	0.269	1.309	(1.175-1.457)
Payment Source: All Medicaid	-0.283	0.754	(0.677-0.839)
Use of Telephone: Able to answer but difficulty placing calls	0.354	1.425	(1.331-1.525)
Use of Telephone: Limited ability to answer or converse	0.778	2.176	(2.007-2.359)
Use of Telephone: Unable to answer but listens with assistance	0.927	2.526	(2.274-2.806)
Use of Telephone: Totally unable	1.212	3.360	(2.999-3.765)
Pressure ulcer assessment indicates risk	-0.089	0.915	(0.865-0.968)
Pressure Ulcer Present: Total Number Stage II or higher	-0.088 ^a	0.916	(0.845-0.992)
Risk for Hospitalization: Presence of frailty indicators	0.087	1.091	(1.033-1.153)
Risk for Hospitalization: History of falls	0.056 ^a	1.058	(1.002-1.116)
Risk Factors: Obesity	0.16	1.173	(1.093-1.260)
Risk for Hospitalization: Other unlisted risk factors	-0.123	0.884	(0.814-0.960)
Risk for Hospitalization: Recent mental/emotional decline	0.113	1.119	(1.052-1.190)
Surgical Wound Present	0.324	1.383	(1.283-1.490)
Therapy Amounts: Low	0.149	1.160	(1.064-1.266)
Therapy Amounts: Medium	0.335	1.398	(1.311-1.491)

Table 15: Improvement in Phone Use (continued)

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Therapy Amounts: High	0.38	1.463	(1.360-1.572)
Toilet Hygiene Assistance: Needs supplies laid out	0.091 ^a	1.095	(1.004-1.194)
Toilet Hygiene Assistance: Needs assistance	-0.002 ^c	0.998	(0.905-1.101)
Toilet Hygiene Assistance: Entirely dependent	-0.273	0.761	(0.658-0.880)
Verbal Understanding: Most of the time	-0.138	0.871	(0.812-0.936)
Verbal Understanding: Sometimes	-0.115 ^a	0.892	(0.804-0.989)
Verbal Understanding: Rarely or never	-0.289 ^c	0.749	(0.531-1.058)
Vision: Partially impaired	-0.147	0.863	(0.819-0.910)
Vision: Severely impaired	-0.433	0.649	(0.571-0.737)
Skin Lesion or Open Wound	0.081 ^a	1.085	(1.016-1.158)
Constant	0.558	1.748	

Number of Risk Factors: 90

Developmental Sample R² = 0.127

Developmental Sample C-statistic = 0.704

Validation Sample R² = 0.119

Validation Sample C-statistic = 0.753

¹ SOC = Start of Care, ROC = Resumption of Care after inpatient stay. Risk factors values are based on SOC/ROC assessment values for the episode of care.

² Most risk factors take on the values 0 and 1; 1 denotes the presence of the attribute and 0 denotes its absence. In virtually all cases, each response option for an OASIS item is a risk factor. In a small number of cases (e.g., number of pressure ulcers at Stage III), the actual number provided in the assessment is used.

³ Because all response option values for an OASIS item are included as risk factors in a model even if only one option value is statistically significant, the following superscripts are used to denote the statistical significance for each risk factor coefficient:

- Blank = significant at probability<.01
- a = significant at .01<probability<.05
- b = significant at .05<probability<.10
- c = not significant, probability>.10

Table 16: Improvement in Speech / Language

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Acute condition: Neurologic	-0.065 ^a	0.937	(0.887-0.990)
Anxiety: Less often than daily	-0.003 ^c	0.997	(0.951-1.045)
Anxiety: Daily, but not constantly	0.104	1.110	(1.052-1.171)
Anxiety: All of the time	0.238	1.269	(1.102-1.460)
Patient is male	0.097	1.102	(1.057-1.149)
Grooming: Grooming utensils must be placed within reach	0.109	1.115	(1.052-1.181)
Grooming: Assistance needed	0.1	1.105	(1.033-1.182)
Grooming: Entirely dependent upon someone else	-0.063 ^c	0.939	(0.847-1.040)
Home Care Diagnosis: Mental diseases	-0.134	0.875	(0.832-0.920)
Home Care Diagnosis: Nervous system diseases	-0.16	0.852	(0.810-0.897)
Home Care Diagnosis: Respiratory system diseases	0.086	1.090	(1.034-1.148)
IADL Assistance: Caregiver currently provides	0.080 ^a	1.084	(1.016-1.155)
Discharged from inpatient setting within past 14 days	0.334	1.396	(1.334-1.461)
Lives in congregate situation with around the clock assistance	-0.197	0.822	(0.770-0.877)
Urinary incontinence/catheter: Incontinent	-0.116	0.890	(0.851-0.931)
Urinary incontinence/catheter: Catheter	-0.094 ^c	0.910	(0.810-1.023)
Medication Assistance: Caregiver training/support needed	0.137	1.146	(1.074-1.224)
Age: 18-64	-0.155	0.856	(0.794-0.924)
Age: 75-84	0.037 ^c	1.038	(0.981-1.098)
Age: 85 and over	-0.008 ^c	0.992	(0.934-1.053)
Cognitive Functioning: Requires prompting under stress	-0.199	0.820	(0.770-0.873)
Cognitive Functioning: Requires assist in special circumstances	-0.336	0.715	(0.657-0.777)
Cognitive Function: Requires considerable assist/totally dependent	-0.436	0.647	(0.572-0.732)
Confused: In new or complex situations	-0.081 ^a	0.922	(0.866-0.983)
Confused: Sometimes	-0.212	0.809	(0.745-0.878)
Confused: Constantly	-0.325	0.723	(0.636-0.822)
Eating: Requires set up, intermittent assist or modified consistency	0.044 ^b	1.045	(0.997-1.095)
Eating: Unable to feed self and must be assisted throughout meal	-0.067 ^c	0.936	(0.845-1.036)
Eating: Requires tube feedings, or no nutrients orally or via tube	-0.36	0.697	(0.571-0.851)
Patient Overall Status: Temporary high health risk	0.232	1.261	(1.182-1.344)
Patient Overall Status: Fragile health	0.25	1.284	(1.198-1.376)
Patient Overall Status: Serious progressive conditions	0.196	1.217	(1.097-1.351)
Management of Oral Meds: Advance dose prep/chart needed	-0.171	0.843	(0.783-0.907)
Management of Oral Meds: Reminders needed	-0.271	0.763	(0.700-0.830)
Management of Oral Meds: Unable	-0.366	0.693	(0.629-0.764)
Prior Functioning: Needed assistance with household tasks	-0.127	0.881	(0.850-0.913)
Conditions Prior to Treatment: Impaired decision making	-0.175	0.839	(0.801-0.879)
Prior Management of Oral Meds: Needed assistance	-0.139	0.870	(0.835-0.907)
Frequency of Pain: Pain does not interfere with activity	0.061 ^b	1.063	(0.989-1.143)
Frequency of Pain: Less often than daily	0.092	1.096	(1.023-1.175)

Table 16: Improvement in Speech / Language (continued)

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Frequency of Pain: Daily, but not constant	0.048 ^b	1.049	(0.997-1.104)
Frequency of Pain: Constant	0.184	1.202	(1.111-1.300)
Payment Source: All Medicaid	-0.181	0.835	(0.764-0.911)
Use of Telephone: Able to use specially adapted telephone	-0.063 ^b	0.939	(0.879-1.004)
Use of Telephone: Able to answer but difficulty placing calls	-0.228	0.796	(0.745-0.850)
Use of Telephone: Limited ability to answer or converse	-0.377	0.686	(0.639-0.736)
Use of Telephone: Unable to answer but listens with assistance	-0.619	0.539	(0.488-0.594)
Use of Telephone: Totally unable	-0.782	0.457	(0.413-0.507)
Risk for Hospitalization: Taking five or more medications	0.094	1.098	(1.042-1.158)
Risk Factors: Obesity	0.095	1.099	(1.041-1.161)
Difficulty in Speech: Moderate	1.098	2.998	(2.800-3.210)
Difficulty in Speech: Severe difficulty	1.29	3.634	(3.247-4.067)
Difficulty in Speech: Unable to express basic needs	1.47	4.349	(3.548-5.332)
Surgical Wound Present	0.317	1.373	(1.298-1.453)
Therapy Amounts: Low	0.175	1.191	(1.110-1.278)
Therapy Amounts: Medium	0.276	1.318	(1.254-1.385)
Therapy Amounts: High	0.204	1.227	(1.158-1.299)
Episode Timing: Later	-0.233	0.792	(0.731-0.858)
Verbal Understanding: Most of the time	-0.088	0.916	(0.868-0.967)
Verbal Understanding: Sometimes	-0.089 ^a	0.915	(0.840-0.997)
Verbal Understanding: Rarely or never	-0.119 ^c	0.888	(0.705-1.118)
Constant	-0.020 ^c	0.980	

Number of Risk Factors: 61

Developmental Sample R² = 0.107

Developmental Sample C-statistic = 0.689

Validation Sample R² = 0.104

Validation Sample C-statistic = 0.686

¹ SOC = Start of Care, ROC = Resumption of Care after inpatient stay. Risk factors values are based on SOC/ROC assessment values for the episode of care.

² Most risk factors take on the values 0 and 1; 1 denotes the presence of the attribute and 0 denotes its absence. In virtually all cases, each response option for an OASIS item is a risk factor. In a small number of cases (e.g., number of pressure ulcers at Stage III), the actual number provided in the assessment is used.

³ Because all response option values for an OASIS item are included as risk factors in a model even if only one option value is statistically significant, the following superscripts are used to denote the statistical significance for each risk factor coefficient:

Blank = significant at probability<.01

a = significant at .01<probability<.05

b = significant at .05<probability<.10

c = not significant, probability>.10

Table 17: Improvement in Status of Surgical Wounds

Submodel 1: Status of Surgical Wound- Fully granulating (M1342 = 1)

Risk Factor Measured at SOC/ROC^{1,2}	Coeff³	Odds ratio³	(95% CI)
ADL Assistance: Caregiver provides	-0.200	0.819	(0.716-0.936)
Bathing: With the use of devices in shower/tub	0.157 ^c	1.170	(0.891-1.536)
Bathing: With intermittent assistance in shower/tub	0.309 ^a	1.362	(1.043-1.779)
Bathing: Participates with supervision in shower/tub	0.166 ^c	1.180	(0.897-1.553)
Bathing: Independent at sink, in chair, or on commode	0.037 ^c	1.038	(0.776-1.388)
Bathing: Participates with assist at sink, in chair, or commode	0.088 ^c	1.091	(0.801-1.487)
Bathing: Unable to participate; bathed totally by another	0.057 ^c	1.059	(0.600-1.869)
Assessment indicates risk for falls	0.157 ^a	1.170	(1.030-1.331)
Home Care Diagnosis: Endocrine/nutritional/metabolic	0.175	1.191	(1.046-1.357)
Home Care Diagnosis: Ill-defined conditions	-0.180	0.835	(0.740-0.942)
Hearing: Mildly to moderately impaired	0.204	1.226	(1.067-1.409)
Hearing: Severely impaired	0.161 ^c	1.174	(0.576-2.393)
Frequency of Disruptive Behavior: Once a month or less	0.821	2.273	(1.236-4.179)
Frequency of Disruptive Behavior: Several times a month	0.162 ^c	1.175	(0.671-2.059)
Frequency of Disruptive Behavior: Several times a week	0.198 ^c	1.219	(0.791-1.877)
Frequency of Disruptive Behavior: At least once daily	-0.120 ^c	0.886	(0.665-1.183)
Transferring: With minimal human assist or with device	0.179 ^a	1.196	(1.019-1.403)
Transferring: Bears weight and pivots only	0.199 ^c	1.220	(0.933-1.594)
Transferring: Unable or bedfast	0.216 ^c	1.241	(0.783-1.966)
Prior Functioning: Needed assistance with transfer	0.142 ^a	1.153	(1.022-1.301)
Number of therapy visits: 1-2	-0.279 ^a	0.757	(0.595-0.963)
Number of therapy visits: 3-4	-0.252 ^b	0.777	(0.582-1.038)
Number of therapy visits: 5-6	-0.180 ^b	0.835	(0.686-1.016)
Number of therapy visits: 7-8	-0.009 ^c	0.991	(0.815-1.206)
Number of therapy visits: 9-10	0.200 ^b	1.221	(0.995-1.499)
Number of therapy visits: 11-12	0.234 ^a	1.264	(1.021-1.566)
Number of therapy visits: 13-14	0.339	1.404	(1.087-1.813)
Number of therapy visits: 15-16	0.457	1.579	(1.168-2.133)
Number of therapy visits: 17-18	0.330 ^b	1.391	(0.970-1.996)
Number of therapy visits: 19+	0.849	2.338	(1.519-3.601)
Toilet Hygiene Assistance: Needs supplies laid out	0.174 ^a	1.190	(1.031-1.373)
Toilet Hygiene Assistance: Needs assistance	0.018 ^c	1.018	(0.836-1.239)
Toilet Hygiene Assistance: Entirely dependent	0.199 ^c	1.220	(0.730-2.041)
Constant	0.595	1.813	

Number of Risk Factors: 33

Table 17: Improvement in Status of Surgical Wounds (continued)

Submodel 2: Status of Surgical Wound- Early/partial granulation (M1342 = 2)

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Acute condition: Cardiac/peripheral vascular	0.170	1.186	(1.078-1.304)
Acute condition: Diabetes mellitus	-0.183	0.832	(0.725-0.956)
Frequency of ADL /IADL Assistance: At least daily	-0.142 ^c	0.868	(0.681-1.106)
Frequency of ADL /IADL Assistance: Three or more times per week	-0.138 ^c	0.871	(0.655-1.159)
Frequency of ADL/IADL Assistance: One or two times per week	-0.046 ^c	0.955	(0.689-1.325)
Frequency of ADL /IADL Assistance: Received less than weekly	-0.576	0.562	(0.379-0.833)
Patient is male	0.110	1.116	(1.028-1.211)
Home Care Diagnosis: Iatrogenic conditions	-0.274	0.760	(0.656-0.881)
Home Care Diagnosis: Skin/subcutaneous diseases	-0.167 ^a	0.846	(0.717-0.999)
Discharged from inpatient setting within past 14 days	0.242	1.274	(1.077-1.508)
Discharged from skilled nursing facility (SNF / TCU) past 14 days	0.191	1.211	(1.056-1.388)
Medication Assistance: None needed	-0.099 ^a	0.906	(0.828-0.991)
Age: 18-64	-0.027 ^c	0.973	(0.867-1.092)
Age: 75-84	0.223	1.250	(1.133-1.379)
Age: 85 and over	0.334	1.397	(1.186-1.645)
Dyspnea: Walking more than 20 feet, climbing stairs	0.094 ^b	1.098	(0.995-1.213)
Dyspnea: Moderate exertion	0.179	1.196	(1.069-1.338)
Dyspnea: Minimal to no exertion	0.135 ^c	1.144	(0.965-1.356)
Transferring: With minimal human assist or with device	0.129 ^a	1.137	(1.028-1.259)
Transferring: Bears weight and pivots only	0.091 ^c	1.095	(0.921-1.302)
Transferring: Unable or bedfast	0.129 ^c	1.138	(0.838-1.546)
Patient Overall Status: Temporary high health risk	-0.011 ^c	0.989	(0.897-1.091)
Patient Overall Status: Fragile health	-0.129 ^b	0.879	(0.757-1.019)
Patient Overall Status: Serious progressive conditions	-0.497	0.608	(0.461-0.803)
Payment Source: All Medicare	0.275	1.316	(1.082-1.601)
Use of Telephone: Able to use specially adapted telephone	0.380	1.462	(1.139-1.876)
Use of Telephone: Able to answer but difficulty placing calls	0.113 ^c	1.119	(0.854-1.466)
Use of Telephone: Limited ability to answer or converse	-0.287 ^a	0.750	(0.583-0.966)
Use of Telephone: Unable to answer but listens with assistance	-0.335 ^b	0.715	(0.483-1.058)
Use of Telephone: Totally unable	0.127 ^c	1.135	(0.741-1.739)
Assistance with Medical treatments: None needed	0.181	1.199	(1.097-1.309)
Risk for Hospitalization: History of falls	0.228	1.256	(1.094-1.441)
Number of therapy visits: 1-2	-0.125 ^c	0.882	(0.747-1.042)
Number of therapy visits: 3-4	-0.471	0.624	(0.521-0.748)
Number of therapy visits: 5-6	0.028 ^c	1.029	(0.900-1.175)
Number of therapy visits: 7-8	0.288	1.334	(1.153-1.543)
Number of therapy visits: 9-10	0.459	1.582	(1.359-1.841)

Table 17: Improvement in Status of Surgical Wounds (continued)

Submodel 2: Status of Surgical Wound- Early/partial granulation (M1342 = 2) (continued)

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Number of therapy visits: 11-12	0.682	1.978	(1.659-2.358)
Number of therapy visits: 13-14	0.976	2.653	(2.088-3.373)
Number of therapy visits: 15-16	1.078	2.939	(2.166-3.987)
Number of therapy visits: 17-18	0.698	2.010	(1.429-2.827)
Number of therapy visits: 19-20	1.189	3.285	(2.056-5.249)
Vision: Partially impaired	0.166 ^a	1.181	(1.018-1.369)
Vision: Severely impaired	-0.151 ^c	0.860	(0.511-1.444)
Constant	0.967	2.631	

Number of Risk Factors: 44

Submodel 3: Status of Surgical Wound- Not healing (M1342 =3)

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Discharged from inpatient setting within past 14 days	0.323 ^a	1.382	(1.040-1.835)
Receiving parenteral nutrition	-1.601	0.202	(0.064-0.636)
Ability to Dress Lower Body: Needs clothing/shoes laid out	0.029 ^c	1.029	(0.757-1.400)
Ability to Dress Lower Body: Assist needed putting on clothing	0.165 ^c	1.179	(0.900-1.546)
Ability to Dress Lower Body: Entirely dependent upon someone else	0.668	1.951	(1.231-3.090)
Ambulation/Locomotion: One-handed device on all surfaces	0.135 ^c	1.145	(0.808-1.621)
Ambulation/Locomotion: Two-handed device/human assist on steps	-0.087 ^c	0.916	(0.670-1.253)
Ambulation/Locomotion: Walks only with supervision or assist	-0.195 ^c	0.823	(0.571-1.185)
Ambulation/Locomotion: Chairfast or bedfast	-0.854	0.426	(0.271-0.668)
Dyspnea: Walking more than 20 feet, climbing stairs	-0.031 ^c	0.970	(0.777-1.211)
Dyspnea: Moderate exertion	0.256 ^a	1.291	(1.000-1.667)
Dyspnea: Minimal to no exertion	-0.154 ^c	0.857	(0.623-1.179)
Eating: Requires set up, intermittent assist or modified consistency	0.094 ^c	1.099	(0.892-1.354)
Eating: Unable to feed self and must be assisted throughout meal	1.331 ^a	3.784	(1.177-12.162)
Eating: Requires tube feedings, or no nutrients orally or via tube	-0.116 ^c	0.891	(0.422-1.880)
Patient Overall Status: Temporary high health risk	-0.111 ^c	0.895	(0.681-1.176)
Patient Overall Status: Fragile health	-0.407 ^a	0.666	(0.483-0.917)
Patient Overall Status: Serious progressive conditions	-1.061	0.346	(0.220-0.544)
Conditions Prior to Treatment: Indwelling/suprapubic catheter	-0.705 ^a	0.494	(0.283-0.862)
Conditions Prior to Treatment: Disruptive behavior	-0.918 ^a	0.399	(0.178-0.896)
Prior Management of Oral Meds: Needed assistance	-0.253	0.777	(0.659-0.915)
Use of Telephone: Able to use specially adapted telephone	0.486 ^b	1.627	(0.955-2.772)
Use of Telephone: Able to answer but difficulty placing calls	0.049 ^c	1.051	(0.634-1.740)
Use of Telephone: Limited ability to answer or converse	0.408 ^c	1.504	(0.818-2.766)

Table 17: Improvement in Status of Surgical Wounds (continued)

Submodel 3: Status of Surgical Wound- Not healing (M1342 =3) (continued)

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Use of Telephone: Unable to answer but listens with assistance	-0.993	0.370	(0.178-0.771)
Use of Telephone: Totally unable	0.100 ^c	1.105	(0.424-2.879)
Number of therapy visits: 1-2	-0.086 ^c	0.917	(0.626-1.345)
Number of therapy visits: 3-4	-0.093 ^c	0.911	(0.563-1.475)
Number of therapy visits: 5-6	-0.071 ^c	0.932	(0.683-1.271)
Number of therapy visits: 7-8	-0.007 ^c	0.993	(0.713-1.384)
Number of therapy visits: 9-10	0.449 ^a	1.567	(1.073-2.290)
Number of therapy visits: 11-12	0.144 ^c	1.155	(0.778-1.715)
Number of therapy visits: 13-14	0.787 ^a	2.196	(1.138-4.237)
Number of therapy visits: 15-16	0.523 ^c	1.687	(0.892-3.193)
Number of therapy visits: 17-18	2.261 ^a	9.596	(1.328-69.354)
Number of therapy visits: 19-20	1.918 ^b	6.806	(0.927-49.970)
Constant	2.280	9.781	

Number of Risk Factors: 37

Number of Unique Risk Factors Across All Models Components: 78

Overall model development sample R² = 0.054

Overall model validation sample R² = 0.047

Overall model development sample C-statistic = 0.683

Overall model validation sample C-statistic = 0.672

¹ SOC = Start of Care, ROC = Resumption of Care after inpatient stay. Risk factors values are based on SOC/ROC assessment values for the episode of care.

² Most risk factors take on the values 0 and 1; 1 denotes the presence of the attribute and 0 denotes its absence. In virtually all cases, each response option for an OASIS item is a risk factor. In a small number of cases (e.g., number of pressure ulcers at Stage III), the actual number provided in the assessment is used.

³ Because all response option values for an OASIS item are included as risk factors in a model even if only one option value is statistically significant, the following superscripts are used to denote the statistical significance for each risk factor coefficient:

Blank = significant at probability<.01

a = significant at .01<probability<.05

b = significant at .05<probability<.10

c = not significant, probability>.10

Table 18: Improvement in Toilet Transferring

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Acute condition: Cardiac/peripheral vascular	0.062	1.064	(1.018-1.111)
Acute condition: Orthopedic	0.089	1.093	(1.043-1.145)
ADL Assistance: Caregiver provides	-0.091	0.913	(0.861-0.967)
Anxiety: Less often than daily	0.053 ^a	1.055	(1.003-1.109)
Anxiety: Daily, but not constantly	0.17	1.186	(1.117-1.259)
Anxiety: All of the time	0.381	1.464	(1.233-1.737)
Chronic Conditions: Dependence in medication administration	-0.168	0.845	(0.789-0.905)
Start of Care-Further visits planned	0.178	1.195	(1.118-1.277)
Grooming: Grooming utensils must be placed within reach	-0.175	0.840	(0.767-0.919)
Grooming: Assistance needed	-0.16	0.852	(0.771-0.942)
Grooming: Entirely dependent upon someone else	-0.172 ^a	0.842	(0.725-0.978)
Home Care Diagnosis: Mental diseases	-0.078	0.925	(0.875-0.979)
Home Care Diagnosis: Neoplasms	-0.378	0.685	(0.629-0.745)
Home Care Diagnosis: Nervous system diseases	-0.125	0.882	(0.838-0.929)
Urinary incontinence/catheter	-0.339	0.712	(0.637-0.796)
Discharged from inpatient rehab hospital/unit (IRF) past 14 days	0.25	1.284	(1.180-1.397)
Discharged from skilled nursing facility (SNF / TCU) past 14 days	0.203	1.226	(1.150-1.306)
Discharged from Short-stay acute hospital (IPP S) past 14 days	0.305	1.357	(1.291-1.426)
Lives alone with occasional/short term assistance	0.357	1.429	(1.298-1.573)
Urinary incontinence/catheter: Incontinent	0.137 ^a	1.147	(1.029-1.278)
Medication Assistance: Caregiver training/support needed	0.177	1.193	(1.108-1.286)
Meal prep: Unable to plan/prepare light meals	-0.068 ^c	0.934	(0.849-1.028)
Meal prep: Unable to reheat delivered meals	-0.182	0.833	(0.754-0.921)
Change in medical or treatment regimen in past 14 days	0.257	1.294	(1.178-1.421)
Age: 18-64	-0.242	0.785	(0.728-0.847)
Age: 75-84	-0.025 ^c	0.975	(0.921-1.033)
Age: 85 and over	-0.155	0.856	(0.806-0.910)
Ambulation/Locomotion: One-handed device on all surfaces	-0.019 ^c	0.981	(0.760-1.265)
Ambulation/Locomotion: Two-handed device/human assist on steps	-0.116 ^c	0.890	(0.693-1.145)
Ambulation/Locomotion: Walks only with supervision or assist	-0.138 ^c	0.871	(0.677-1.121)
Ambulation/Locomotion: Chairfast or bedfast	-0.831	0.436	(0.335-0.567)
Bowel Incontinence Frequency: Less than once a week	-0.066 ^c	0.936	(0.859-1.021)
Bowel Incontinence Frequency: One to three times a week	-0.059 ^c	0.943	(0.867-1.025)
Bowel Incontinence Frequency: Four to six times a week or more	-0.279	0.757	(0.691-0.828)
Confused: In new or complex situations	0.025 ^c	1.025	(0.971-1.083)
Confused: Sometimes	-0.015 ^c	0.985	(0.911-1.066)
Confused: Constantly	-0.154 ^a	0.858	(0.748-0.984)
Dyspnea: Walking more than 20 feet, climbing stairs	0.078 ^a	1.081	(1.017-1.148)
Dyspnea: Moderate exertion	0.093	1.097	(1.036-1.162)

Table 18: Improvement in Toilet Transferring (continued)

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Eating: Requires set up, intermittent assist or modified consistency	-0.081	0.922	(0.879-0.968)
Eating: Unable to feed self and must be assisted throughout meal	-0.219	0.803	(0.720-0.896)
Eating: Requires tube feedings, or no nutrients orally or via tube	-0.264 ^a	0.768	(0.617-0.956)
Difficulty in Speech: Minimal	-0.084	0.919	(0.872-0.969)
Difficulty in Speech: Moderate	-0.045 ^c	0.956	(0.878-1.042)
Difficulty in Speech: Severe to nonresponsive	-0.053 ^c	0.949	(0.831-1.083)
Transferring: With minimal human assist or with device	-0.056 ^c	0.946	(0.798-1.121)
Transferring: Bears weight and pivots only	-0.183 ^a	0.833	(0.697-0.994)
Transferring: Unable or bedfast	-0.427	0.653	(0.535-0.797)
Patient Overall Status: Temporary high health risk	0.091	1.095	(1.027-1.167)
Patient Overall Status: Fragile health	-0.008 ^c	0.992	(0.923-1.066)
Patient Overall Status: Serious progressive conditions	-0.262	0.769	(0.689-0.859)
Management of Oral Meds: Advance dose prep/chart needed	-0.050 ^c	0.951	(0.876-1.033)
Management of Oral Meds: Reminders needed	-0.154	0.857	(0.780-0.942)
Management of Oral Meds: Unable	-0.353	0.702	(0.638-0.774)
Prior Functioning: Needed assistance with ambulation	-0.165	0.848	(0.789-0.910)
Conditions Prior to Treatment: Impaired decision making	-0.08	0.923	(0.875-0.974)
Prior Functioning: Needed assistance with self care	-0.225	0.799	(0.756-0.844)
Prior Functioning: Needed assistance with transfer	-0.096	0.909	(0.847-0.975)
Frequency of Pain: Pain does not interfere with activity	0.069 ^b	1.072	(0.990-1.160)
Frequency of Pain: Less often than daily	0.016 ^c	1.017	(0.944-1.095)
Frequency of Pain: Daily, but not constant	0.121	1.128	(1.068-1.192)
Frequency of Pain: Constant	0.176	1.193	(1.102-1.291)
Payment Source: All Medicaid	-0.142	0.868	(0.793-0.950)
Use of Telephone: Able to use specially adapted telephone	-0.144	0.866	(0.809-0.928)
Use of Telephone: Able to answer but difficulty placing calls	-0.175	0.839	(0.783-0.899)
Use of Telephone: Limited ability to answer or converse	-0.234	0.792	(0.735-0.853)
Use of Telephone: Unable to answer but listens with assistance	-0.453	0.635	(0.574-0.703)
Use of Telephone: Totally unable	-0.385	0.681	(0.609-0.761)
PHQ-2 Loss of Interest: Several days in past 2 weeks	-0.113	0.894	(0.845-0.945)
PHQ-2 Loss of Interest: More than half of days in past 2 weeks	-0.029 ^c	0.972	(0.873-1.082)
PHQ-2 Loss of Interest: Nearly every day in past 2 weeks	-0.186	0.830	(0.737-0.935)
Pressure ulcer assessment indicates risk	-0.233	0.792	(0.756-0.830)
Pressure Ulcer Present: Total Number Stage II or higher	-0.174	0.841	(0.789-0.895)
Risk for Hospitalization: Presence of frailty indicators	0.08	1.083	(1.033-1.135)
Supervision and Safety Assistance: Caregiver currently provides	-0.064 ^a	0.938	(0.892-0.987)
Supervision and Safety Assistance: Uncertain/unlikely to be provided	-0.211 ^a	0.810	(0.679-0.967)
Surgical Wound Present	0.353	1.423	(1.294-1.565)
Status of Surgical Wound: Fully granulating	0.044 ^c	1.045	(0.905-1.207)
Status of Surgical Wound: Early/partial granulation	0.357	1.429	(1.274-1.604)

Table 18: Improvement in Toilet Transferring (continued)

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Status of Surgical Wound: Not healing	0.335	1.398	(1.206-1.622)
Status of Stasis Ulcer: Fully granulating	-0.147 ^c	0.863	(0.404-1.845)
Status of Stasis Ulcer: Early/partial granulation	-0.073 ^c	0.930	(0.688-1.255)
Status of Stasis Ulcer: Not healing	-0.297 ^a	0.743	(0.590-0.936)
Therapy Amounts: High	0.458	1.582	(1.484-1.686)
Therapy Amounts: Low	0.098	1.103	(1.024-1.187)
Therapy Amounts: Medium	0.503	1.653	(1.562-1.750)
Episode Timing: Later	-0.3	0.741	(0.680-0.807)
Toilet Hygiene Assistance: Needs supplies laid out	-0.205	0.814	(0.753-0.881)
Toilet Hygiene Assistance: Needs assistance	-0.431	0.650	(0.597-0.707)
Toilet Hygiene Assistance: Entirely dependent	-0.724	0.485	(0.423-0.555)
Toilet Transferring: Able to self-transfer to bedside commode	1.343	3.832	(3.555-4.130)
Toilet Transferring: Able to use bedpan/urinal independently	1.88	6.554	(5.450-7.883)
Toilet Transferring: Entirely dependent	1.853	6.381	(5.607-7.263)
Ability to Dress Upper Body: Needs clothing laid out	-0.152 ^a	0.859	(0.748-0.987)
Ability to Dress Upper Body: Needs assistance putting on clothing	-0.407	0.666	(0.576-0.769)
Ability to Dress Upper Body: Entirely dependent upon someone else	-0.513	0.599	(0.501-0.716)
Behavioral: Verbally disruptive/inappropriate	-0.179 ^a	0.836	(0.708-0.988)
Vision: Partially impaired	-0.073	0.930	(0.886-0.976)
Vision: Severely impaired	-0.060 ^c	0.942	(0.818-1.085)
Constant	1.858	6.412	

Number of Risk Factors: 100
 Developmental Sample R² = 0.232
 Developmental Sample C-statistic = 0.790

Validation Sample R² = 0.234
 Validation Sample C-statistic = 0.790

¹ SOC = Start of Care, ROC = Resumption of Care after inpatient stay. Risk factors values are based on SOC/ROC assessment values for the episode of care.

² Most risk factors take on the values 0 and 1; 1 denotes the presence of the attribute and 0 denotes its absence. In virtually all cases, each response option for an OASIS item is a risk factor. In a small number of cases (e.g., number of pressure ulcers at Stage III), the actual number provided in the assessment is used.

³ Because all response option values for an OASIS item are included as risk factors in a model even if only one option value is statistically significant, the following superscripts are used to denote the statistical significance for each risk factor coefficient:

Blank = significant at probability<.01
 a = significant at .01<probability<.05
 b = significant at .05<probability<.10
 c = not significant, probability>.10

Table 19: Improvement in Toileting Hygiene

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Acute condition: Oxygen therapy	-0.135	0.874	(0.825-0.926)
Acute condition: Orthopedic	0.111	1.118	(1.072-1.165)
Anxiety: Less often than daily	0.020 ^c	1.020	(0.977-1.066)
Anxiety: Daily, but not constantly	0.104	1.110	(1.054-1.169)
Anxiety: All of the time	0.302	1.353	(1.166-1.570)
Chronic Conditions: Dependence in medication administration	-0.196	0.822	(0.772-0.876)
Start of Care-Further visits planned	0.189	1.208	(1.136-1.285)
Grooming: Grooming utensils must be placed within reach	-0.095 ^a	0.910	(0.843-0.981)
Grooming: Assistance needed	-0.101 ^a	0.904	(0.830-0.984)
Grooming: Entirely dependent upon someone else	-0.243	0.784	(0.688-0.894)
Home Care Diagnosis: Blood diseases	0.114	1.120	(1.041-1.206)
Home Care Diagnosis: Mental diseases	-0.078	0.925	(0.882-0.971)
Home Care Diagnosis: Neoplasms	-0.305	0.737	(0.682-0.796)
Home Care Diagnosis: Nervous system diseases	-0.151	0.860	(0.823-0.899)
Home Care Diagnosis: Respiratory system diseases	0.076	1.079	(1.025-1.136)
Urinary incontinence/catheter	-0.186	0.830	(0.769-0.896)
Discharged from inpatient setting within past 14 days	0.127	1.136	(1.045-1.235)
Discharged from inpatient rehab hospital/unit (IRF) past 14 days	0.291	1.337	(1.211-1.477)
Discharged from skilled nursing facility (SNF / TCU) past 14 days	0.129	1.138	(1.046-1.238)
Discharged from Short-stay acute hospital (IPP S) past 14 days	0.277	1.319	(1.219-1.428)
Lives alone with round the clock assistance	0.177	1.194	(1.122-1.270)
Lives in congregate situation with around the clock assistance	-0.089	0.915	(0.861-0.972)
Lives alone with occasional/short term assistance	0.249	1.283	(1.188-1.386)
Medication Assistance: Caregiver training/support needed	0.211	1.234	(1.160-1.313)
Meal prep: Unable to plan/prepare light meals	0.076 ^a	1.079	(1.004-1.159)
Meal prep: Unable to reheat delivered meals	-0.022 ^c	0.978	(0.904-1.057)
Drug Regimen Review: Problems found	0.071	1.073	(1.024-1.125)
Change in medical or treatment regimen in past 14 days	0.153	1.165	(1.100-1.234)
Age: 18-64	-0.131	0.877	(0.821-0.937)
Age: 75-84	0.029 ^c	1.029	(0.979-1.082)
Age: 85 and over	-0.075	0.928	(0.879-0.978)
Ambulation/Locomotion: One-handed device on all surfaces	-0.042 ^c	0.958	(0.820-1.120)
Ambulation/Locomotion: Two-handed device/human assist on steps	-0.026 ^c	0.974	(0.836-1.135)
Ambulation/Locomotion: Walks only with supervision or assist	-0.018 ^c	0.982	(0.840-1.149)
Ambulation/Locomotion: Chairfast or bedfast	-0.735	0.479	(0.404-0.568)
Bowel Incontinence Frequency: Less than once a week	-0.075 ^a	0.927	(0.860-1.000)
Bowel Incontinence Frequency: One to three times a week	-0.052 ^c	0.949	(0.882-1.022)
Bowel Incontinence Frequency: Four to six times a week or more	-0.29	0.748	(0.691-0.810)
Confused: In new or complex situations	0.027 ^c	1.027	(0.979-1.078)
Confused: Sometimes	-0.086 ^a	0.918	(0.857-0.982)

Table 19: Improvement in Toileting Hygiene (continued)

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Confused: Constantly	-0.246	0.782	(0.700-0.873)
Dyspnea: Walking more than 20 feet, climbing stairs	0.055 ^a	1.057	(1.002-1.114)
Dyspnea: Moderate exertion	0.054 ^a	1.055	(1.003-1.110)
Dyspnea: Minimal to no exertion	0.11	1.116	(1.046-1.191)
Eating: Requires set up, intermittent assist or modified consistency	-0.062	0.940	(0.901-0.980)
Eating: Unable to feed self and must be assisted throughout meal	-0.2	0.819	(0.744-0.901)
Eating: Requires tube feedings, or no nutrients orally or via tube	-0.230 ^a	0.795	(0.653-0.967)
Urinary Incontinence: Occasional stress incontinence	0.069 ^c	1.072	(0.983-1.169)
Urinary Incontinence: Day or night	0.030 ^c	1.030	(0.922-1.151)
Urinary Incontinence: Day and night	-0.112	0.894	(0.828-0.965)
Difficulty in Speech: Minimal	-0.077	0.926	(0.884-0.970)
Difficulty in Speech: Moderate	-0.127	0.881	(0.818-0.949)
Difficulty in Speech: Severe to nonresponsive	-0.299	0.741	(0.666-0.825)
Toilet Transferring: To/from/on/off toilet with human assist	-0.109	0.897	(0.850-0.946)
Toilet Transferring: Able to self-transfer to bedside commode	-0.145	0.865	(0.799-0.937)
Toilet Transferring: Unable to transfer to/from toilet or commode	-0.47	0.625	(0.560-0.697)
Transferring: With minimal human assist or with device	-0.062 ^c	0.940	(0.847-1.044)
Transferring: Bears weight and pivots only	-0.157	0.854	(0.761-0.960)
Transferring: Unable or bedfast	-0.44	0.644	(0.560-0.741)
Patient Overall Status: Temporary high health risk	0.068 ^a	1.070	(1.014-1.130)
Patient Overall Status: Fragile health	-0.005 ^c	0.995	(0.937-1.058)
Patient Overall Status: Serious progressive conditions	-0.209	0.811	(0.737-0.893)
Management of Oral Meds: Advance dose prep/chart needed	-0.064 ^b	0.938	(0.872-1.009)
Management of Oral Meds: Reminders needed	-0.131	0.878	(0.806-0.956)
Management of Oral Meds: Unable	-0.325	0.723	(0.662-0.789)
Prior Functioning: Needed assistance with ambulation	-0.144	0.866	(0.828-0.905)
Prior Functioning: Needed assistance with self care	-0.323	0.724	(0.691-0.759)
Frequency of Pain: Pain does not interfere with activity	0.073 ^a	1.076	(1.004-1.152)
Frequency of Pain: Less often than daily	0.020 ^c	1.020	(0.957-1.088)
Frequency of Pain: Daily, but not constant	0.11	1.116	(1.064-1.171)
Frequency of Pain: Constant	0.229	1.258	(1.171-1.352)
Payment Source: All Medicaid	-0.204	0.816	(0.755-0.881)
Use of Telephone: Able to use specially adapted telephone	-0.167	0.846	(0.797-0.899)
Use of Telephone: Able to answer but difficulty placing calls	-0.249	0.780	(0.733-0.829)
Use of Telephone: Limited ability to answer or converse	-0.281	0.755	(0.706-0.807)
Use of Telephone: Unable to answer but listens with assistance	-0.532	0.587	(0.537-0.642)
Use of Telephone: Totally unable	-0.658	0.518	(0.470-0.571)
Pressure ulcer present: Stage II or higher	-0.341	0.711	(0.650-0.778)
Pressure ulcer assessment indicates risk	-0.166	0.847	(0.812-0.883)
Surgical Wound Present	0.36	1.433	(1.309-1.569)

Table 19: Improvement in Toileting Hygiene (continued)

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Status of Surgical Wound: Fully granulating	-0.003 ^c	0.997	(0.871-1.141)
Status of Surgical Wound: Early/partial granulation	0.304	1.355	(1.214-1.513)
Status of Surgical Wound: Not healing	0.251	1.285	(1.116-1.480)
Therapy Amounts: Low	0.131	1.140	(1.068-1.217)
Therapy Amounts: Medium	0.419	1.521	(1.449-1.597)
Therapy Amounts: High	0.401	1.493	(1.414-1.577)
Episode Timing: Later	-0.291	0.748	(0.696-0.803)
Toilet Hygiene Assistance: Needs assistance	0.87	2.387	(2.271-2.509)
Toilet Hygiene Assistance: Entirely dependent	1.986	7.289	(6.533-8.133)
Ability to Dress Upper Body: Needs clothing laid out	-0.2	0.819	(0.731-0.917)
Ability to Dress Upper Body: Needs assistance putting on clothing	-0.451	0.637	(0.566-0.717)
Ability to Dress Upper Body: Entirely dependent upon someone else	-0.596	0.551	(0.473-0.642)
Behavioral: Verbally disruptive/inappropriate	-0.331	0.718	(0.629-0.820)
Vision: Partially impaired	-0.124	0.884	(0.848-0.921)
Vision: Severely impaired	0.054 ^c	1.055	(0.934-1.192)
Constant	1.36	3.896	

Number of Risk Factors: 95

Developmental Sample R² = 0.207

Developmental Sample C-statistic = 0.776

Validation Sample R² = 0.202

Validation Sample C-statistic = 0.772

¹ SOC = Start of Care, ROC = Resumption of Care after inpatient stay. Risk factors values are based on SOC/ROC assessment values for the episode of care.

² Most risk factors take on the values 0 and 1; 1 denotes the presence of the attribute and 0 denotes its absence. In virtually all cases, each response option for an OASIS item is a risk factor. In a small number of cases (e.g., number of pressure ulcers at Stage III), the actual number provided in the assessment is used.

³ Because all response option values for an OASIS item are included as risk factors in a model even if only one option value is statistically significant, the following superscripts are used to denote the statistical significance for each risk factor coefficient:

- Blank = significant at probability < .01
- a = significant at .01 < probability < .05
- b = significant at .05 < probability < .10
- c = not significant, probability > .10

Table 20: Improvement in Upper Body Dressing

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Acute condition: Enteral/parenteral nutrition	-0.272	0.762	(0.654-0.887)
Acute condition: Oxygen therapy	-0.153	0.858	(0.814-0.904)
Acute condition: Orthopedic	0.097	1.102	(1.063-1.142)
ADL Assistance: None needed	0.204	1.227	(1.124-1.339)
Anxiety: Less often than daily	0.024 ^c	1.024	(0.987-1.063)
Anxiety: Daily, but not constantly	0.09	1.094	(1.047-1.144)
Anxiety: All of the time	0.203	1.225	(1.078-1.392)
Frequency of ADL /IADL Assistance: At least daily	-0.026 ^c	0.974	(0.862-1.102)
Frequency of ADL /IADL Assistance: Three or more times per week	0.120 ^b	1.127	(0.985-1.291)
Frequency of ADL/IADL Assistance: One or two times per week	0.165 ^a	1.180	(1.016-1.369)
Frequency of ADL /IADL Assistance: Received less than weekly	0.119 ^c	1.126	(0.930-1.363)
Chronic Conditions: Dependence in medication administration	-0.077 ^a	0.926	(0.864-0.992)
Management of Equipment: Caregiver currently provides	-0.075	0.928	(0.888-0.970)
Grooming: Grooming utensils must be placed within reach	-0.168	0.845	(0.803-0.890)
Grooming: Assistance needed	-0.26	0.771	(0.724-0.822)
Grooming: Entirely dependent upon someone else	-0.577	0.561	(0.499-0.631)
Home Care Diagnosis: Intracranial injury	0.368 ^a	1.444	(1.056-1.976)
Home Care Diagnosis: Mental diseases	-0.088	0.916	(0.878-0.956)
Home Care Diagnosis: Neoplasms	-0.327	0.721	(0.677-0.768)
Home Care Diagnosis: Nervous system diseases	-0.161	0.851	(0.819-0.885)
Discharged from inpatient setting within past 14 days	0.109	1.116	(1.032-1.206)
Discharged from long-term care hospital (LTCH) past 14 days	0.232	1.261	(1.090-1.460)
Discharged from inpatient rehab hospital/unit (IRF) past 14 days	0.2	1.222	(1.120-1.332)
Discharged from skilled nursing facility (SNF / TCU) past 14 days	0.158	1.172	(1.085-1.265)
Discharged from Short-stay acute hospital (IPP S) past 14 days	0.263	1.301	(1.209-1.401)
Lives alone with round the clock assistance	0.169	1.184	(1.121-1.250)
Lives alone with occasional/short term assistance	0.255	1.291	(1.207-1.381)
Urinary incontinence/catheter: Incontinent	-0.18	0.835	(0.807-0.864)
Urinary incontinence/catheter: Catheter	-0.286	0.751	(0.689-0.820)
Medication Assistance: Caregiver training/support needed	0.272	1.313	(1.241-1.388)
Meal prep: Unable to plan/prepare light meals	-0.016 ^c	0.985	(0.932-1.041)
Meal prep: Unable to reheat delivered meals	-0.156	0.855	(0.804-0.910)
Change in medical or treatment regimen in past 14 days	0.2	1.221	(1.161-1.284)
Age: 18-64	-0.133	0.875	(0.829-0.925)
Age: 75-84	0.018 ^c	1.018	(0.976-1.062)
Age: 85 and over	-0.124	0.884	(0.845-0.925)
Ambulation/Locomotion: One-handed device on all surfaces	-0.143 ^a	0.867	(0.777-0.967)
Ambulation/Locomotion: Two-handed device/human assist on steps	-0.212	0.809	(0.726-0.900)
Ambulation/Locomotion: Walks only with supervision or assist	-0.273	0.761	(0.680-0.851)
Ambulation/Locomotion: Chairfast or bedfast	-0.901	0.406	(0.358-0.461)

Table 20: Improvement in Upper Body Dressing (continued)

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Cognitive Functioning: Requires prompting under stress	-0.002 ^c	0.998	(0.953-1.045)
Cognitive Functioning: Requires assist in special circumstances	0.034 ^c	1.035	(0.967-1.108)
Cognitive Function: Requires considerable assist/totally dependent	-0.124 ^a	0.883	(0.795-0.981)
Confused: In new or complex situations	-0.030 ^c	0.970	(0.927-1.015)
Confused: Sometimes	-0.116	0.891	(0.833-0.953)
Confused: Constantly	-0.347	0.707	(0.631-0.792)
Depression screen indicates need for further evaluation	-0.018	0.982	(0.976-0.988)
Dyspnea: Walking more than 20 feet, climbing stairs	0.081	1.085	(1.038-1.133)
Dyspnea: Moderate exertion	0.126	1.134	(1.087-1.184)
Dyspnea: Minimal to no exertion	0.15	1.161	(1.099-1.227)
Toilet Transferring: To/from/on/off toilet with human assist	0.020 ^c	1.020	(0.977-1.065)
Toilet Transferring: Able to self-transfer to bedside commode	0.003 ^c	1.003	(0.936-1.076)
Toilet Transferring: Unable to transfer to/from toilet or commode	-0.225	0.799	(0.723-0.882)
Transferring: With minimal human assist or with device	-0.032 ^c	0.969	(0.904-1.038)
Transferring: Bears weight and pivots only	-0.053 ^c	0.948	(0.872-1.031)
Transferring: Unable or bedfast	-0.152	0.859	(0.768-0.961)
Patient Overall Status: Temporary high health risk	0.108	1.114	(1.066-1.164)
Patient Overall Status: Fragile health	-0.056 ^a	0.945	(0.899-0.995)
Patient Overall Status: Serious progressive conditions	-0.321	0.725	(0.667-0.788)
Management of Oral Meds: Advance dose prep/chart needed	-0.051 ^b	0.951	(0.897-1.008)
Management of Oral Meds: Reminders needed	-0.105	0.900	(0.839-0.966)
Management of Oral Meds: Unable	-0.299	0.742	(0.687-0.801)
Prior Functioning: Needed assistance with ambulation	-0.087	0.917	(0.883-0.952)
Prior Functioning: Needed assistance with household tasks	-0.141	0.869	(0.842-0.896)
Prior Management of Injectable Meds: Not applicable	0.07	1.073	(1.032-1.116)
Prior Management of Oral Meds: Needed assistance	-0.117	0.889	(0.851-0.929)
Prior Functioning: Needed assistance with self care	-0.291	0.748	(0.717-0.780)
Frequency of Pain: Pain does not interfere with activity	0.071 ^a	1.073	(1.013-1.137)
Frequency of Pain: Less often than daily	0.072 ^a	1.075	(1.016-1.136)
Frequency of Pain: Daily, but not constant	0.097	1.102	(1.058-1.148)
Frequency of Pain: Constant	0.073 ^a	1.076	(1.014-1.141)
Payment Source: All Medicaid	-0.146	0.864	(0.808-0.925)
Use of Telephone: Able to use specially adapted telephone	-0.082	0.921	(0.874-0.972)
Use of Telephone: Able to answer but difficulty placing calls	-0.21	0.811	(0.768-0.856)
Use of Telephone: Limited ability to answer or converse	-0.227	0.797	(0.750-0.846)
Use of Telephone: Unable to answer but listens with assistance	-0.499	0.607	(0.559-0.660)
Use of Telephone: Totally unable	-0.62	0.538	(0.493-0.587)
Pressure ulcer present: Stage II or higher	-0.305	0.737	(0.681-0.798)
Pressure ulcer assessment indicates risk	-0.175	0.840	(0.809-0.871)
Surgical Wound Present	0.306	1.359	(1.265-1.459)

Table 20: Improvement in Upper Body Dressing (continued)

Risk Factor Measured at SOC/ROC ^{1,2}	Coefficient ³	Odds ratio ³	(95% CI)
Status of Surgical Wound: Fully granulating	0.096 ^b	1.101	(0.989-1.225)
Status of Surgical Wound: Early/partial granulation	0.347	1.415	(1.300-1.540)
Status of Surgical Wound: Not healing	0.364	1.439	(1.289-1.608)
Status of Stasis Ulcer: Fully granulating	0.122 ^c	1.130	(0.658-1.940)
Status of Stasis Ulcer: Early/partial granulation	-0.268 ^a	0.765	(0.622-0.941)
Status of Stasis Ulcer: Not healing	-0.110 ^c	0.896	(0.751-1.070)
Therapy Amounts: Low	0.101	1.106	(1.047-1.169)
Therapy Amounts: Medium	0.442	1.556	(1.492-1.622)
Therapy Amounts: High	0.478	1.613	(1.539-1.691)
Episode Timing: Later	-0.327	0.721	(0.677-0.767)
Toilet Hygiene Assistance: Needs supplies laid out	-0.078	0.925	(0.884-0.967)
Toilet Hygiene Assistance: Needs assistance	-0.329	0.720	(0.681-0.762)
Toilet Hygiene Assistance: Entirely dependent	-0.565	0.568	(0.512-0.630)
Ability to Dress Upper Body: Needs assistance putting on clothing	0.917	2.501	(2.392-2.615)
Ability to Dress Upper Body: Entirely dependent upon someone else	2.391	10.924	(9.755-12.233)
Behavioral: Verbally disruptive/inappropriate	-0.222	0.801	(0.710-0.905)
Vision: Partially impaired	-0.087	0.917	(0.884-0.951)
Vision: Severely impaired	-0.147	0.863	(0.775-0.961)
Constant	1.207	3.342	

Number of Risk Factors: 98

Developmental Sample R² = 0.205

Developmental Sample C-statistic = 0.772

Validation Sample R² = 0.204

Validation Sample C-statistic = 0.772

¹ SOC = Start of Care, ROC = Resumption of Care after inpatient stay. Risk factors values are based on SOC/ROC assessment values for the episode of care.

² Most risk factors take on the values 0 and 1; 1 denotes the presence of the attribute and 0 denotes its absence. In virtually all cases, each response option for an OASIS item is a risk factor. In a small number of cases (e.g., number of pressure ulcers at Stage III), the actual number provided in the assessment is used.

³ Because all response option values for an OASIS item are included as risk factors in a model even if only one option value is statistically significant, the following superscripts are used to denote the statistical significance for each risk factor coefficient:

- Blank = significant at probability<.01
- a = significant at .01<probability<.05
- b = significant at .05<probability<.10
- c = not significant, probability>.10

Table 21: Improvement in Urinary Incontinence

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Acute condition: Cardiac/peripheral vascular	0.067	1.069	(1.031-1.109)
Acute condition: Orthopedic	0.068	1.070	(1.029-1.113)
Bathing: With the use of devices in shower/tub	-0.131 ^b	0.877	(0.764-1.008)
Bathing: With intermittent assistance in shower/tub	-0.142 ^a	0.868	(0.758-0.994)
Bathing: Participates with supervision in shower/tub	-0.165 ^a	0.848	(0.740-0.973)
Bathing: Independent at sink, in chair, or on commode	-0.032 ^c	0.968	(0.838-1.119)
Bathing: Participates with assist at sink, in chair, or commode	-0.128 ^b	0.880	(0.762-1.016)
Bathing: Unable to participate; bathed totally by another	-0.237	0.789	(0.669-0.930)
Patient is male	-0.182	0.834	(0.801-0.867)
Home Care Diagnosis: Mental diseases	-0.095	0.910	(0.869-0.953)
Home Care Diagnosis: Nervous system diseases	-0.069	0.934	(0.894-0.975)
Home Care Diagnosis: Skin/subcutaneous diseases	-0.095	0.910	(0.854-0.969)
IADL Assistance: Caregiver training/support needed	0.129	1.137	(1.041-1.242)
Urinary Incontinence: Night only	0.498	1.645	(1.514-1.787)
Urinary Incontinence: Day only	0.653	1.921	(1.693-2.181)
Urinary Incontinence: Day and night	0.38	1.462	(1.407-1.518)
Discharged from inpatient setting within past 14 days	0.182	1.200	(1.152-1.250)
Discharged from inpatient rehab hospital/unit (IRF) past 14 days	0.109	1.116	(1.042-1.195)
Lives in congregate situation with around the clock assistance	-0.191	0.826	(0.780-0.875)
Medication Assistance: Caregiver training/support needed	0.148	1.160	(1.085-1.240)
Age: 18-64	0.038 ^c	1.039	(0.968-1.115)
Age: 75-84	-0.073	0.929	(0.886-0.975)
Age: 85 and over	-0.163	0.849	(0.808-0.893)
Ambulation/Locomotion: One-handed device on all surfaces	0.007 ^c	1.007	(0.904-1.121)
Ambulation/Locomotion: Two-handed device/human assist on steps	-0.053 ^c	0.948	(0.853-1.054)
Ambulation/Locomotion: Walks only with supervision or assist	-0.130 ^a	0.878	(0.784-0.983)
Ambulation/Locomotion: Chairfast or bedfast	-0.366	0.693	(0.607-0.792)
Bowel Incontinence Frequency: Less than once a week	-0.020 ^c	0.980	(0.916-1.049)
Bowel Incontinence Frequency: One to three times a week	-0.104	0.902	(0.842-0.965)
Bowel Incontinence Frequency: Four to six times a week or more	-0.343	0.709	(0.656-0.767)
Confused: In new or complex situations	-0.11	0.896	(0.860-0.933)
Confused: Sometimes	-0.181	0.835	(0.784-0.889)
Confused: Constantly	-0.5	0.606	(0.543-0.677)
Toilet Transferring: To/from/on/off toilet with human assist	0.162	1.175	(1.118-1.236)
Toilet Transferring: Able to self-transfer to bedside commode	0.262	1.299	(1.198-1.408)
Toilet Transferring: Unable to transfer to/from toilet or commode	0.097 ^c	1.102	(0.980-1.239)
Transferring: With minimal human assist or with device	-0.115	0.891	(0.833-0.953)
Transferring: Bears weight and pivots only	-0.079 ^b	0.924	(0.847-1.008)
Transferring: Unable or bedfast	-0.224	0.800	(0.706-0.906)

Table 21: Improvement in Urinary Incontinence (continued)

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Patient Overall Status: Temporary high health risk	0.127	1.135	(1.079-1.194)
Patient Overall Status: Fragile health	0.129	1.138	(1.074-1.206)
Patient Overall Status: Serious progressive conditions	0.066 ^c	1.068	(0.969-1.177)
Prior Functioning: Needed assistance with household tasks	-0.116	0.890	(0.861-0.921)
Conditions Prior to Treatment: Severe memory loss	-0.106	0.899	(0.852-0.950)
Prior Management of Oral Meds: Needed assistance	-0.072	0.931	(0.902-0.960)
Prior Functioning: Needed assistance with self care	-0.059	0.943	(0.906-0.981)
Frequency of Pain: Pain does not interfere with activity	0.084 ^a	1.088	(1.019-1.162)
Frequency of Pain: Less often than daily	0.072 ^a	1.075	(1.009-1.145)
Frequency of Pain: Daily, but not constant	-0.007 ^c	0.993	(0.949-1.040)
Frequency of Pain: Constant	0.009 ^c	1.009	(0.945-1.077)
Payment Source: All Medicaid	-0.21	0.810	(0.746-0.880)
Assistance with Medical treatments: Caregiver provides	0.08	1.083	(1.036-1.132)
Pressure ulcer assessment indicates risk	-0.114	0.892	(0.857-0.929)
Risk for Hospitalization: Other unlisted risk factors	-0.078	0.925	(0.874-0.979)
Risk for Hospitalization: Recent mental/emotional decline	0.089	1.093	(1.042-1.148)
Surgical Wound Present	0.235	1.264	(1.205-1.326)
Therapy Amounts: Low	0.095	1.100	(1.032-1.172)
Therapy Amounts: Medium	0.173	1.189	(1.134-1.247)
Therapy Amounts: High	0.231	1.260	(1.193-1.329)
Episode Timing: Later	-0.242	0.785	(0.730-0.844)
Toilet Hygiene Assistance: Needs supplies laid out	0.047 ^b	1.048	(0.996-1.103)
Toilet Hygiene Assistance: Needs assistance	-0.021 ^c	0.979	(0.919-1.042)
Toilet Hygiene Assistance: Entirely dependent	-0.345	0.708	(0.633-0.792)
Constant	0.182 ^a	1.199	

Number of Risk Factors: 63

Developmental Sample R² = 0.073

Developmental Sample C-statistic = 0.649

Validation Sample R² = 0.073

Validation Sample C-statistic = 0.650

¹ SOC = Start of Care, ROC = Resumption of Care after inpatient stay. Risk factors values are based on SOC/ROC assessment values for the episode of care.

² Most risk factors take on the values 0 and 1; 1 denotes the presence of the attribute and 0 denotes its absence. In virtually all cases, each response option for an OASIS item is a risk factor. In a small number of cases (e.g., number of pressure ulcers at Stage III), the actual number provided in the assessment is used.

³ Because all response option values for an OASIS item are included as risk factors in a model even if only one option value is statistically significant, the following superscripts are used to denote the statistical significance for each risk factor coefficient:

Blank = significant at probability<.01
a = significant at .01<probability<.05
b = significant at .05<probability<.10
c = not significant, probability>.10

Table 22: Improvement in Urinary Tract Infection

Risk Factor Measured at SOC/ROC ^{1,2}	Coefficient ³	Odds ratio ³	(95% CI)
Acute condition: Cardiac/peripheral vascular	0.163	1.178	(1.058-1.310)
Acute condition: Diabetes mellitus	0.201	1.223	(1.050-1.423)
Acute Condition: IV Therapies	-0.887	0.412	(0.342-0.496)
Frequency of ADL /IADL Assistance: At least daily	0.253 ^b	1.288	(0.983-1.686)
Frequency of ADL /IADL Assistance: Three or more times per week	0.445	1.561	(1.133-2.149)
Frequency of ADL/IADL Assistance: One or two times per week	0.309 ^b	1.362	(0.962-1.929)
Frequency of ADL /IADL Assistance: Received less than weekly	-0.014 ^c	0.986	(0.635-1.532)
Patient is male	0.155	1.168	(1.053-1.296)
Home Care Diagnosis: Circulatory system diseases	0.139	1.149	(1.038-1.272)
Home Care Diagnosis: Genitourinary system diseases	-0.498	0.608	(0.554-0.667)
Urinary incontinence/catheter	-0.244	0.784	(0.705-0.871)
Management of Injectable Medications: None prescribed	0.189	1.208	(1.078-1.354)
Discharged from inpatient setting within past 14 days	0.182	1.200	(1.055-1.363)
Discharged from inpatient rehab hospital/unit (IRF) past 14 days	0.442	1.555	(1.254-1.928)
Dyspnea: Walking more than 20 feet, climbing stairs	0.16	1.174	(1.041-1.323)
Dyspnea: Moderate exertion	0.265	1.303	(1.157-1.468)
Dyspnea: Minimal to no exertion	0.239	1.270	(1.092-1.477)
Eating: Requires set up, intermittent assist or modified consistency	0.141	1.151	(1.041-1.273)
Eating: Unable to feed self and must be assisted throughout meal	-0.139 ^c	0.870	(0.726-1.043)
Eating: Requires tube feedings, or no nutrients orally or via tube	0.518 ^a	1.678	(1.078-2.612)
Conditions Prior to Treatment: Indwelling/suprapubic catheter	-0.354	0.702	(0.592-0.832)
Conditions Prior to Treatment: Intractable pain	-0.253	0.777	(0.676-0.892)
Surgical Wound Present	0.266	1.304	(1.149-1.481)
Therapy Amounts: Low	0.043 ^c	1.044	(0.902-1.209)
Therapy Amounts: Medium	0.53	1.698	(1.520-1.898)
Therapy Amounts: High	0.79	2.204	(1.895-2.563)
Constant	0.545	1.724	

Number of Risk Factors: 26

Developmental Sample R² = 0.071

Developmental Sample C-statistic = 0.675

Validation Sample R² = 0.063

Validation Sample C-statistic = 0.660

¹ SOC = Start of Care, ROC = Resumption of Care after inpatient stay. Risk factors values are based on SOC/ROC assessment values for the episode of care.

² Most risk factors take on the values 0 and 1; 1 denotes the presence of the attribute and 0 denotes its absence. In virtually all cases, each response option for an OASIS item is a risk factor. In a small number of cases (e.g., number of pressure ulcers at Stage III), the actual number provided in the assessment is used.

³ Because all response option values for an OASIS item are included as risk factors in a model even if only one option value is statistically significant, the following superscripts are used to denote the statistical significance for each risk factor coefficient:

Blank = significant at probability<.01

a = significant at .01<probability<.05

b = significant at .05<probability<.10

c = not significant, probability>.10

Table 23: Acute Care Hospitalization

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Acute condition: Orthopedic	-0.306	0.736	(0.717-0.756)
Anxiety: Less often than daily	0.041	1.042	(1.014-1.071)
Anxiety: Daily, but not constantly	0.046	1.047	(1.013-1.082)
Anxiety: All of the time	0.072 ^c	1.075	(0.984-1.174)
Bathing: With the use of devices in shower/tub	-0.041 ^c	0.960	(0.895-1.029)
Bathing: With intermittent assistance in shower/tub	0.067 ^b	1.069	(0.997-1.147)
Bathing: Participates with supervision in shower/tub	0.041 ^c	1.042	(0.967-1.122)
Bathing: Independent at sink, in chair, or on commode	0.047 ^c	1.048	(0.969-1.133)
Bathing: Participates with assist at sink, in chair, or commode	0.130	1.139	(1.052-1.232)
Bathing: Unable to participate; bathed totally by another	0.096 ^b	1.101	(0.997-1.215)
Chronic Conditions: Dependence in personal care	0.150	1.162	(1.123-1.202)
Start of Care-Further visits planned	-0.429	0.651	(0.630-0.673)
Grooming: Grooming utensils must be placed within reach	0.048 ^a	1.049	(1.009-1.092)
Grooming: Assistance needed	0.127	1.135	(1.081-1.192)
Grooming: Entirely dependent upon someone else	0.202	1.224	(1.118-1.339)
Home Care Diagnosis: Neoplasms	0.357	1.430	(1.372-1.490)
Home Care Diagnosis: Skin/subcutaneous diseases	0.224	1.251	(1.199-1.306)
Management of Injectable Medications: None prescribed	-0.256	0.774	(0.754-0.795)
Discharged from inpatient setting within past 14 days	0.266	1.305	(1.266-1.345)
Ability to Dress Lower Body: Needs clothing/shoes laid out	-0.105	0.901	(0.848-0.956)
Ability to Dress Lower Body: Assist needed putting on clothing	-0.138	0.871	(0.822-0.923)
Ability to Dress Lower Body: Entirely dependent upon someone else	-0.213	0.808	(0.748-0.873)
Lives alone with round the clock assistance	0.076	1.079	(1.043-1.116)
Meal prep: Unable to plan/prepare light meals	0.072	1.075	(1.037-1.114)
Meal prep: Unable to reheat delivered meals	0.099	1.104	(1.059-1.151)
Age: 18-64	0.230	1.259	(1.213-1.306)
Age: 75-84	0.021 ^c	1.021	(0.990-1.053)
Age: 85 and over	0.013 ^c	1.013	(0.979-1.049)
Ambulation/Locomotion: One-handed device on all surfaces	0.022 ^c	1.022	(0.967-1.080)
Ambulation/Locomotion: Two-handed device/human assist on steps	0.099	1.104	(1.047-1.165)
Ambulation/Locomotion: Walks only with supervision or assist	0.049 ^c	1.050	(0.989-1.116)
Ambulation/Locomotion: Chairfast or bedfast	0.199	1.221	(1.137-1.311)
Frequency of Disruptive Behavior: Once a month or less	-0.027 ^c	0.974	(0.908-1.045)
Frequency of Disruptive Behavior: Several times a month	0.029 ^c	1.029	(0.957-1.106)
Frequency of Disruptive Behavior: Several times a week	0.011 ^c	1.011	(0.954-1.071)
Frequency of Disruptive Behavior: At least once daily	-0.081	0.922	(0.884-0.962)
Bowel Incontinence Frequency: Less than once a week	0.144	1.155	(1.096-1.217)
Bowel Incontinence Frequency: One to three times a week	0.116	1.123	(1.066-1.183)
Bowel Incontinence Frequency: Four to six times a week or more	0.256	1.292	(1.222-1.366)
Cognitive Functioning: Requires prompting under stress	0.001 ^c	1.001	(0.969-1.033)

Table 23: Acute Care Hospitalization (continued)

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Cognitive Functioning: Requires assist in special circumstances	-0.107	0.899	(0.854-0.946)
Cognitive Function: Requires considerable assist/totally dependent	-0.178	0.837	(0.767-0.913)
Dyspnea: Walking more than 20 feet, climbing stairs	0.143	1.154	(1.115-1.194)
Dyspnea: Moderate exertion	0.296	1.344	(1.300-1.389)
Dyspnea: Minimal to no exertion	0.460	1.584	(1.522-1.649)
Eating: Requires set up, intermittent assist or modified consistency	0.021 ^c	1.021	(0.993-1.049)
Eating: Unable to feed self and must be assisted throughout meal	-0.089 ^a	0.915	(0.850-0.985)
Eating: Requires tube feedings, or no nutrients orally or via tube	0.284	1.329	(1.188-1.486)
Difficulty in Speech: Minimal	0.013 ^c	1.013	(0.981-1.045)
Difficulty in Speech: Moderate	-0.078	0.925	(0.872-0.981)
Difficulty in Speech: Severe to nonresponsive	-0.182	0.834	(0.759-0.916)
Toilet Transferring: To/from/on/off toilet with human assist	-0.002 ^c	0.998	(0.967-1.031)
Toilet Transferring: Able to self-transfer to bedside commode	0.073	1.076	(1.022-1.133)
Toilet Transferring: Unable to transfer to/from toilet or commode	0.136	1.145	(1.065-1.232)
Patient Overall Status: Temporary high health risk	0.199	1.220	(1.176-1.266)
Patient Overall Status: Fragile health	0.457	1.579	(1.517-1.645)
Patient Overall Status: Serious progressive conditions	0.531	1.700	(1.601-1.805)
Management of Oral Meds: Advance dose prep/chart needed	0.178	1.195	(1.158-1.234)
Management of Oral Meds: Reminders needed	0.226	1.254	(1.203-1.307)
Management of Oral Meds: Unable	0.215	1.240	(1.186-1.297)
Respiratory Treatments: Oxygen	0.282	1.326	(1.285-1.367)
Frequency of Pain: Pain does not interfere with activity	0.014 ^c	1.014	(0.972-1.059)
Frequency of Pain: Less often than daily	0.061	1.063	(1.020-1.108)
Frequency of Pain: Daily, but not constant	0.012 ^c	1.012	(0.982-1.044)
Frequency of Pain: Constant	0.052 ^a	1.053	(1.009-1.099)
Use of Telephone: Able to use specially adapted telephone	0.000 ^c	1.000	(0.958-1.044)
Use of Telephone: Able to answer but difficulty placing calls	0.112	1.118	(1.070-1.168)
Use of Telephone: Limited ability to answer or converse	0.023 ^c	1.023	(0.974-1.075)
Use of Telephone: Unable to answer but listens with assistance	-0.063 ^b	0.939	(0.875-1.008)
Use of Telephone: Totally unable	0.011 ^c	1.011	(0.936-1.092)
PHQ-2 Depression: Several days in past 2 weeks	0.071	1.074	(1.031-1.119)
PHQ-2 Loss of Interest: Several days in past 2 weeks	0.078	1.081	(1.035-1.128)
PHQ-2 Loss of Interest: More than half of days in past 2 weeks	0.078 ^a	1.081	(1.019-1.147)
PHQ-2 Loss of Interest: Nearly every day in past 2 weeks	0.226	1.253	(1.177-1.335)
Pressure Ulcer Present: Total Number Stage II or higher	0.141	1.151	(1.111-1.193)
Risk for Hospitalization: Two or more hospitalizations past year	0.396	1.485	(1.448-1.524)
Surgical Wound Present	-0.287	0.750	(0.712-0.791)
Status of Surgical Wound: Fully granulating	-0.017 ^c	0.983	(0.909-1.062)
Status of Surgical Wound: Early/partial granulation	-0.208	0.812	(0.763-0.864)
Status of Surgical Wound: Not healing	0.037 ^c	1.038	(0.963-1.118)

Table 23: Acute Care Hospitalization (continued)

Risk Factor Measured at SOC/ROC ^{1,2}	Coefficient ³	Odds ratio ³	(95% CI)
Status of Stasis Ulcer: Fully granulating	0.219 ^c	1.244	(0.877-1.765)
Status of Stasis Ulcer: Early/partial granulation	0.331	1.392	(1.217-1.592)
Status of Stasis Ulcer: Not healing	0.376	1.456	(1.304-1.626)
Number of therapy visits: 1-2	-0.004 ^c	0.996	(0.953-1.041)
Number of therapy visits: 3-4	-0.352	0.703	(0.656-0.754)
Number of therapy visits: 5-6	-0.287	0.751	(0.717-0.786)
Number of therapy visits: 7-8	-0.233	0.792	(0.758-0.828)
Number of therapy visits: 9-10	-0.157	0.855	(0.818-0.893)
Number of therapy visits: 11-12	-0.129	0.879	(0.838-0.921)
Number of therapy visits: 13-14	-0.041 ^c	0.960	(0.913-1.009)
Number of therapy visits: 15-16	0.008 ^c	1.008	(0.953-1.066)
Number of therapy visits: 17-18	0.122	1.130	(1.059-1.206)
Number of therapy visits: 19-20	0.080 ^a	1.083	(1.007-1.165)
Episode Timing: Later	0.665	1.945	(1.869-2.023)
Ability to Dress Upper Body: Needs clothing laid out	0.040 ^c	1.041	(0.984-1.101)
Ability to Dress Upper Body: Needs assistance putting on clothing	0.113	1.120	(1.053-1.191)
Ability to Dress Upper Body: Entirely dependent upon someone else	0.153	1.165	(1.054-1.289)
Vision: Partially impaired	0.038	1.039	(1.010-1.068)
Vision: Severely impaired	0.087 ^a	1.091	(1.003-1.186)
Constant	-1.813	0.163	

Number of Risk Factors: 99
 Developmental Sample R² = 0.146
 Developmental Sample C-statistic = 0.740

Validation Sample R² = 0.143
 Validation Sample C-statistic = 0.736

¹ SOC = Start of Care, ROC = Resumption of Care after inpatient stay. Risk factors values are based on SOC/ROC assessment values for the episode of care.

² Most risk factors take on the values 0 and 1; 1 denotes the presence of the attribute and 0 denotes its absence. In virtually all cases, each response option for an OASIS item is a risk factor. In a small number of cases (e.g., number of pressure ulcers at Stage III), the actual number provided in the assessment is used.

³ Because all response option values for an OASIS item are included as risk factors in a model even if only one option value is statistically significant, the following superscripts are used to denote the statistical significance for each risk factor coefficient:

Blank = significant at probability<.01
 a = significant at .01<probability<.05
 b = significant at .05<probability<.10
 c = not significant, probability>.10

Table 24: Discharged to Community

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Acute condition: Orthopedic	0.307	1.359	(1.323-1.396)
Bathing: With the use of devices in shower/tub	0.070 ^b	1.072	(1.000-1.151)
Bathing: With intermittent assistance in shower/tub	-0.034 ^c	0.966	(0.901-1.036)
Bathing: Participates with supervision in shower/tub	0.005 ^c	1.005	(0.934-1.082)
Bathing: Independent at sink, in chair, or on commode	-0.001 ^c	0.999	(0.925-1.080)
Bathing: Participates with assist at sink, in chair, or commode	-0.093 ^a	0.911	(0.842-0.985)
Bathing: Unable to participate; bathed totally by another	-0.102 ^a	0.903	(0.817-0.998)
Frequency of ADL /IADL Assistance: At least daily	0.127	1.136	(1.059-1.218)
Frequency of ADL /IADL Assistance: Three or more times per week	0.039 ^c	1.040	(0.962-1.124)
Frequency of ADL/IADL Assistance: One or two times per week	0.026 ^c	1.026	(0.943-1.117)
Frequency of ADL /IADL Assistance: Received less than weekly	0.019 ^c	1.019	(0.913-1.138)
Chronic Conditions: Dependence in personal care	-0.127	0.880	(0.851-0.910)
Start of Care-Further visits planned	0.501	1.650	(1.596-1.707)
Grooming: Grooming utensils must be placed within reach	-0.029 ^c	0.972	(0.934-1.011)
Grooming: Assistance needed	-0.128	0.880	(0.838-0.924)
Grooming: Entirely dependent upon someone else	-0.197	0.821	(0.749-0.900)
Home Care Diagnosis: Neoplasms	-0.537	0.585	(0.561-0.609)
Home Care Diagnosis: Skin/subcutaneous diseases	-0.252	0.778	(0.743-0.814)
Management of Injectable Medications: None prescribed	0.271	1.312	(1.277-1.347)
Discharged from inpatient setting within past 14 days	-0.246	0.782	(0.758-0.806)
Urinary incontinence/catheter: Incontinent	0.015 ^c	1.016	(0.989-1.043)
Urinary incontinence/catheter: Catheter	-0.322	0.725	(0.673-0.780)
Meal prep: Unable to plan/prepare light meals	-0.053	0.948	(0.915-0.983)
Meal prep: Unable to reheat delivered meals	-0.084	0.920	(0.881-0.960)
Ambulation/Locomotion: One-handed device on all surfaces	-0.022 ^c	0.978	(0.926-1.034)
Ambulation/Locomotion: Two-handed device/human assist on steps	-0.085	0.918	(0.870-0.968)
Ambulation/Locomotion: Walks only with supervision or assist	-0.032 ^c	0.968	(0.911-1.028)
Ambulation/Locomotion: Chairfast or bedfast	-0.278	0.757	(0.704-0.814)
Bowel Incontinence Frequency: Less than once a week	-0.148	0.863	(0.817-0.911)
Bowel Incontinence Frequency: One to three times a week	-0.141	0.868	(0.823-0.916)
Bowel Incontinence Frequency: Four to six times a week or more	-0.197	0.821	(0.775-0.870)
Confused: In new or complex situations	-0.026 ^b	0.974	(0.948-1.001)
Confused: Sometimes	0.009 ^c	1.009	(0.967-1.053)
Confused: Constantly	0.145	1.156	(1.053-1.268)
Dyspnea: Walking more than 20 feet, climbing stairs	-0.115	0.891	(0.861-0.922)
Dyspnea: Moderate exertion	-0.262	0.769	(0.744-0.795)
Dyspnea: Minimal to no exertion	-0.434	0.648	(0.622-0.675)
Eating: Requires set up, intermittent assist or modified consistency	-0.023 ^c	0.978	(0.951-1.005)
Eating: Unable to feed self and must be assisted throughout meal	0.064 ^b	1.066	(0.989-1.149)
Eating: Requires tube feedings, or no nutrients orally or via tube	-0.218	0.804	(0.716-0.904)

Table 24: Discharged to Community (continued)

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Toilet Transferring: To/from/on/off toilet with human assist	0.002 ^c	1.002	(0.970-1.035)
Toilet Transferring: Able to self-transfer to bedside commode	-0.105	0.900	(0.854-0.948)
Toilet Transferring: Unable to transfer to/from toilet or commode	-0.106	0.900	(0.835-0.970)
Patient Overall Status: Temporary high health risk	-0.179	0.836	(0.806-0.868)
Patient Overall Status: Fragile health	-0.444	0.641	(0.615-0.669)
Patient Overall Status: Serious progressive conditions	-0.727	0.483	(0.454-0.515)
Management of Oral Meds: Advance dose prep/chart needed	-0.165	0.848	(0.822-0.875)
Management of Oral Meds: Reminders needed	-0.2	0.819	(0.785-0.854)
Management of Oral Meds: Unable	-0.192	0.826	(0.790-0.862)
Respiratory Treatments: Oxygen	-0.277	0.758	(0.734-0.782)
Conditions Prior to Treatment: Indwelling/suprapubic catheter	-0.132	0.876	(0.798-0.963)
Frequency of Pain: Pain does not interfere with activity	-0.029 ^c	0.971	(0.930-1.014)
Frequency of Pain: Less often than daily	-0.073	0.930	(0.892-0.970)
Frequency of Pain: Daily, but not constant	-0.048	0.954	(0.925-0.983)
Frequency of Pain: Constant	-0.135	0.873	(0.837-0.911)
Use of Telephone: Able to answer but difficulty placing calls	-0.128	0.880	(0.844-0.917)
PHQ-2 Depression: Several days in past 2 weeks	-0.104	0.901	(0.863-0.941)
PHQ-2 Depression: More than half of days in past 2 weeks	-0.107 ^a	0.899	(0.823-0.981)
PHQ-2 Depression: Nearly every day in past 2 weeks	-0.083 ^c	0.920	(0.826-1.026)
PHQ-2 Loss of Interest: Several days in past 2 weeks	-0.076	0.927	(0.885-0.970)
PHQ-2 Loss of Interest: More than half of days in past 2 weeks	-0.073 ^c	0.930	(0.850-1.017)
PHQ-2 Loss of Interest: Nearly every day in past 2 weeks	-0.212	0.809	(0.725-0.903)
Pressure Ulcer: Unstageable ulcer(s) present	-0.406	0.666	(0.591-0.751)
Pressure Ulcer: Stage II ulcer(s) present	-0.107	0.899	(0.839-0.963)
Pressure Ulcer: Stage III ulcer(s) present	-0.446	0.640	(0.560-0.731)
Pressure Ulcer: Stage IV ulcer(s) present	-0.718	0.488	(0.393-0.605)
Risk for Hospitalization: Presence of frailty indicators	-0.144	0.866	(0.843-0.889)
Risk for Hospitalization: Two or more hospitalizations past year	-0.395	0.673	(0.656-0.691)
Surgical Wound Present	0.389	1.476	(1.432-1.521)
Status of Stasis Ulcer: Fully granulating	-0.248 ^c	0.780	(0.542-1.123)
Status of Stasis Ulcer: Early/partial granulation	-0.335	0.715	(0.622-0.822)
Status of Stasis Ulcer: Not healing	-0.435	0.648	(0.577-0.726)
Therapy Amounts: Low	0.091	1.095	(1.051-1.140)
Therapy Amounts: Medium	0.223	1.250	(1.213-1.289)
Therapy Amounts: High	-0.071	0.931	(0.899-0.965)
Episode Timing: Later	-0.764	0.466	(0.447-0.486)
Ability to Dress Upper Body: Needs clothing laid out	0.010 ^c	1.010	(0.967-1.055)
Ability to Dress Upper Body: Needs assistance putting on clothing	-0.076	0.927	(0.880-0.976)
Ability to Dress Upper Body: Entirely dependent upon someone else	-0.066 ^c	0.936	(0.855-1.025)
Constant	1.422	4.147	

Table 24: Discharged to Community (continued)

Number of Risk Factors: 79

Developmental Sample $R^2 = 0.181$

Developmental Sample C-statistic = 0.755

Validation Sample $R^2 = 0.178$

Validation Sample C-statistic = 0.753

¹ SOC = Start of Care, ROC = Resumption of Care after inpatient stay. Risk factors values are based on SOC/ROC assessment values for the episode of care.

² Most risk factors take on the values 0 and 1; 1 denotes the presence of the attribute and 0 denotes its absence. In virtually all cases, each response option for an OASIS item is a risk factor. In a small number of cases (e.g., number of pressure ulcers at Stage III), the actual number provided in the assessment is used.

³ Because all response option values for an OASIS item are included as risk factors in a model even if only one option value is statistically significant, the following superscripts are used to denote the statistical significance for each risk factor coefficient:

Blank = significant at probability < .01

a = significant at .01 < probability < .05

b = significant at .05 < probability < .10

c = not significant, probability > .10

Table 25: Emergency Room Use with Hospitalization

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Acute condition: Enteral/parenteral nutrition	0.463	1.589	(1.366-1.850)
Acute condition: Neurologic	-0.091	0.913	(0.874-0.953)
Acute condition: Orthopedic	-0.264	0.768	(0.743-0.793)
Acute Condition: Mental/Emotional	0.258	1.294	(1.166-1.436)
ADL Assistance: Caregiver provides	-0.077	0.926	(0.895-0.957)
ADL Assistance: Uncertain/unlikely to be provided	0.117	1.124	(1.048-1.207)
Anxiety: Less often than daily	0.039 ^a	1.040	(1.006-1.075)
Anxiety: Daily, but not constantly	0.085	1.089	(1.048-1.132)
Anxiety: All of the time	0.041 ^c	1.042	(0.940-1.154)
Bathing: With the use of devices in shower/tub	-0.034 ^c	0.966	(0.889-1.050)
Bathing: With intermittent assistance in shower/tub	0.052 ^c	1.053	(0.970-1.143)
Bathing: Participates with supervision in shower/tub	0.078 ^b	1.082	(0.990-1.181)
Bathing: Independent at sink, in chair, or on commode	0.094 ^a	1.099	(1.002-1.206)
Bathing: Participates with assist at sink, in chair, or commode	0.154	1.167	(1.063-1.281)
Bathing: Unable to participate; bathed totally by another	0.153	1.165	(1.039-1.307)
Chronic Conditions: Impaired ambulation/mobility	0.047 ^a	1.048	(1.005-1.092)
Chronic Conditions: Dependence in personal care	0.077	1.080	(1.031-1.132)
Start of Care-Further visits planned	-0.711	0.491	(0.474-0.509)
Management of Equipment: None needed	-0.091	0.913	(0.881-0.946)
Grooming: Grooming utensils must be placed within reach	0.015 ^c	1.016	(0.976-1.057)
Grooming: Assistance needed	0.086	1.090	(1.037-1.145)
Grooming: Entirely dependent upon someone else	0.119	1.126	(1.034-1.226)
Home Care Diagnosis: Blood diseases	0.2	1.221	(1.165-1.280)
Home Care Diagnosis: Circulatory system diseases	0.144	1.155	(1.119-1.193)
Home Care Diagnosis: Digestive system diseases	0.099	1.104	(1.060-1.151)
Home Care Diagnosis: Endocrine/nutritional/metabolic	0.139	1.150	(1.118-1.182)
Home Care Diagnosis: Genitourinary system diseases	0.186	1.205	(1.159-1.253)
Home Care Diagnosis: Neoplasms	0.225	1.252	(1.192-1.316)
Home Care Diagnosis: Respiratory system diseases	0.077	1.080	(1.042-1.119)
Home Care Diagnosis: Skin/subcutaneous diseases	0.165	1.180	(1.121-1.242)
Discharged from inpatient setting within past 14 days	0.237	1.268	(1.222-1.316)
Ambulation/Locomotion: One-handed device on all surfaces	-0.038 ^c	0.963	(0.901-1.029)
Ambulation/Locomotion: Two-handed device/human assist on steps	0.043 ^c	1.044	(0.976-1.116)
Ambulation/Locomotion: Walks only with supervision or assist	0.028 ^c	1.029	(0.955-1.108)
Ambulation/Locomotion: Chairfast or bedfast	0.119	1.127	(1.032-1.231)
Frequency of Disruptive Behavior: Once a month or less	-0.042 ^c	0.959	(0.883-1.042)
Frequency of Disruptive Behavior: Several times a month	-0.128	0.880	(0.806-0.959)
Frequency of Disruptive Behavior: Several times a week	-0.015 ^c	0.985	(0.921-1.053)
Frequency of Disruptive Behavior: At least once daily	-0.050 ^a	0.952	(0.906-0.999)
Bowel Incontinence Frequency: Less than once a week	0.081 ^a	1.084	(1.019-1.153)

Table 25: Emergency Room Use with Hospitalization (continued)

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Bowel Incontinence Frequency: One to three times a week	0.023 ^c	1.023	(0.962-1.088)
Bowel Incontinence Frequency: Four to six times a week or more	0.062 ^b	1.064	(0.995-1.139)
Cognitive Functioning: Requires prompting under stress	-0.025 ^c	0.976	(0.935-1.018)
Cognitive Functioning: Requires assist in special circumstances	-0.072 ^a	0.931	(0.872-0.994)
Cognitive Function: Requires considerable assist/totally dependent	-0.049 ^c	0.952	(0.851-1.065)
Confused: In new or complex situations	0.005 ^c	1.005	(0.967-1.045)
Confused: Sometimes	0.035 ^c	1.036	(0.975-1.100)
Confused: Constantly	-0.153 ^a	0.858	(0.756-0.974)
Dyspnea: Walking more than 20 feet, climbing stairs	0.138	1.148	(1.101-1.197)
Dyspnea: Moderate exertion	0.216	1.241	(1.191-1.293)
Dyspnea: Minimal to no exertion	0.322	1.380	(1.314-1.448)
Eating: Requires set up, intermittent assist or modified consistency	-0.013 ^c	0.987	(0.955-1.019)
Eating: Unable to feed self and must be assisted throughout meal	-0.158	0.854	(0.782-0.932)
Eating: Requires tube feedings, or no nutrients orally or via tube	-0.145 ^c	0.865	(0.721-1.037)
Urinary Incontinence: Occasional stress incontinence	0.010 ^c	1.010	(0.967-1.055)
Urinary Incontinence: Day or night	-0.107	0.898	(0.829-0.973)
Urinary Incontinence: Day and night	0.022 ^c	1.023	(0.988-1.059)
Toilet Transferring: To/from/on/off toilet with human assist	0.024 ^c	1.024	(0.986-1.064)
Toilet Transferring: Able to self-transfer to bedside commode	0.104	1.110	(1.046-1.178)
Toilet Transferring: Unable to transfer to/from toilet or commode	0.081 ^b	1.084	(0.996-1.181)
Patient Overall Status: Temporary high health risk	0.158	1.171	(1.119-1.227)
Patient Overall Status: Fragile health	0.411	1.508	(1.434-1.585)
Patient Overall Status: Serious progressive conditions	0.463	1.589	(1.482-1.703)
Management of Oral Meds: Advance dose prep/chart needed	0.11	1.116	(1.069-1.164)
Management of Oral Meds: Reminders needed	0.139	1.149	(1.087-1.214)
Management of Oral Meds: Unable	0.138	1.148	(1.077-1.225)
Respiratory Treatments: Oxygen	0.227	1.255	(1.203-1.310)
Prior Management of Oral Meds: Needed assistance	0.037 ^a	1.038	(1.007-1.069)
Frequency of Pain: Pain does not interfere with activity	0.009 ^c	1.009	(0.959-1.061)
Frequency of Pain: Less often than daily	0.003 ^c	1.003	(0.955-1.053)
Frequency of Pain: Daily, but not constant	-0.022 ^c	0.978	(0.944-1.014)
Frequency of Pain: Constant	0.064 ^a	1.066	(1.014-1.120)
Payment Source: Medicare HMO	-0.049 ^a	0.952	(0.913-0.992)
PHQ-2 Loss of Interest: Several days in past 2 weeks	0.109	1.115	(1.075-1.156)
PHQ-2 Loss of Interest: More than half of days in past 2 weeks	0.011 ^c	1.011	(0.943-1.083)
PHQ-2 Loss of Interest: Nearly every day in past 2 weeks	0.17	1.185	(1.102-1.275)
Pressure Ulcer: Unstageable ulcer(s) present	0.221	1.247	(1.093-1.424)
Pressure Ulcer: Stage III ulcer(s) present	0.21	1.233	(1.055-1.441)
Pressure Ulcer: Stage IV ulcer(s) present	0.38	1.462	(1.152-1.855)
Pressure Ulcer Present: Total Number Stage II or higher	0.059 ^a	1.061	(1.012-1.111)

Table 25: Emergency Room Use with Hospitalization (continued)

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Risk for Hospitalization: Two or more hospitalizations past year	0.305	1.356	(1.315-1.398)
Risk Factors: None of the listed factors	-0.366	0.694	(0.637-0.755)
Risk Factors: Smoking	0.068	1.071	(1.030-1.113)
Surgical Wound Present	-0.337	0.714	(0.688-0.740)
Status of Stasis Ulcer: Fully granulating	0.184 ^c	1.202	(0.812-1.778)
Status of Stasis Ulcer: Early/partial granulation	0.294	1.342	(1.154-1.560)
Status of Stasis Ulcer: Not healing	0.362	1.437	(1.270-1.625)
Therapy Amounts: Low	-0.020 ^c	0.980	(0.936-1.027)
Therapy Amounts: Medium	-0.102	0.903	(0.871-0.935)
Therapy Amounts: High	0.088	1.092	(1.049-1.138)
Verbal Understanding: Most of the time	-0.003 ^c	0.997	(0.961-1.034)
Verbal Understanding: Sometimes	-0.101	0.904	(0.840-0.972)
Verbal Understanding: Rarely or never	-0.107 ^c	0.899	(0.690-1.171)
Vision: Partially impaired	-0.052	0.949	(0.918-0.981)
Vision: Severely impaired	0.092 ^b	1.096	(0.996-1.207)
Constant	-2.096	0.123	

Number of Risk Factors: 83

Developmental Sample R² = 0.091

Developmental Sample C-statistic = 0.724

Validation Sample R² = 0.089

Validation Sample C-statistic = 0.722

¹ SOC = Start of Care, ROC = Resumption of Care after inpatient stay. Risk factors values are based on SOC/ROC assessment values for the episode of care.

² Most risk factors take on the values 0 and 1; 1 denotes the presence of the attribute and 0 denotes its absence. In virtually all cases, each response option for an OASIS item is a risk factor. In a small number of cases (e.g., number of pressure ulcers at Stage III), the actual number provided in the assessment is used.

³ Because all response option values for an OASIS item are included as risk factors in a model even if only one option value is statistically significant, the following superscripts are used to denote the statistical significance for each risk factor coefficient:

- Blank = significant at probability<.01
- a = significant at .01<probability<.05
- b = significant at .05<probability<.10
- c = not significant, probability>.10

Table 26: Stabilization in Anxiety Level

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Anxiety: None of the time	-2.811	0.060	(0.053-0.069)
Anxiety: Less often than daily	-1.863	0.155	(0.135-0.178)
Frequency of ADL /IADL Assistance: At least daily	0.312	1.366	(1.221-1.529)
Frequency of ADL /IADL Assistance: Three or more times per week	0.250	1.283	(1.129-1.459)
Frequency of ADL/IADL Assistance: One or two times per week	0.221	1.247	(1.084-1.434)
Frequency of ADL /IADL Assistance: Received less than weekly	0.293	1.340	(1.105-1.626)
Start of Care-Further visits planned	0.286	1.331	(1.241-1.427)
Patient is male	-0.279	0.757	(0.721-0.793)
Grooming: Grooming utensils must be placed within reach	-0.060 ^a	0.942	(0.890-0.998)
Grooming: Assistance needed	-0.173	0.841	(0.783-0.903)
Grooming: Entirely dependent upon someone else	-0.326	0.722	(0.641-0.813)
Home Care Diagnosis: Mental diseases	-0.358	0.699	(0.656-0.745)
Home Care Diagnosis: Musculoskeletal system diseases	0.126	1.134	(1.080-1.191)
Home Care Diagnosis: Neoplasms	-0.272	0.762	(0.701-0.829)
Lives alone with round the clock assistance	-0.069 ^a	0.933	(0.874-0.997)
Lives in congregate situation with around the clock assistance	-0.192	0.826	(0.764-0.893)
Meal prep: Unable to plan/prepare light meals	0.088	1.092	(1.027-1.162)
Meal prep: Unable to reheat delivered meals	0.156	1.169	(1.085-1.259)
Change in medical or treatment regimen in past 14 days	0.230	1.259	(1.177-1.346)
Behavioral: Memory deficit	-0.094 ^a	0.911	(0.847-0.979)
Confused: In new or complex situations	-0.052 ^b	0.949	(0.896-1.005)
Confused: Sometimes	-0.190	0.827	(0.752-0.909)
Confused: Constantly	-0.230	0.794	(0.669-0.944)
Dyspnea: Walking more than 20 feet, climbing stairs	0.004 ^c	1.004	(0.948-1.064)
Dyspnea: Moderate exertion	0.054 ^b	1.056	(0.994-1.121)
Dyspnea: Minimal to no exertion	-0.215	0.807	(0.749-0.869)
Difficulty in Speech: Minimal	-0.124	0.884	(0.832-0.938)
Difficulty in Speech: Moderate	-0.261	0.770	(0.693-0.857)
Difficulty in Speech: Severe to nonresponsive	-0.353	0.703	(0.600-0.823)
Patient Overall Status: Temporary high health risk	-0.107	0.898	(0.846-0.954)
Patient Overall Status: Fragile health	-0.191	0.826	(0.768-0.888)
Patient Overall Status: Serious progressive conditions	-0.538	0.584	(0.517-0.660)
Frequency of Pain: Pain does not interfere with activity	-0.057 ^c	0.944	(0.872-1.022)
Frequency of Pain: Less often than daily	-0.091 ^a	0.913	(0.843-0.990)
Frequency of Pain: Daily, but not constant	-0.033 ^c	0.967	(0.913-1.025)
Frequency of Pain: Constant	-0.185	0.831	(0.765-0.904)
PHQ-2 Depression: Several days in past 2 weeks	-0.358	0.699	(0.657-0.744)
PHQ-2 Depression: More than half of days in past 2 weeks	-0.619	0.538	(0.475-0.610)
PHQ-2 Depression: Nearly every day in past 2 weeks	-0.787	0.455	(0.397-0.522)
Surgical Wound Present	0.198	1.219	(1.154-1.288)

Table 26: Stabilization in Anxiety Level (continued)

Risk Factor Measured at SOC/ROC ^{1,2}	Coefficient ³	Odds ratio ³	(95% CI)
Therapy Amounts: Low	-0.093 ^a	0.911	(0.844-0.984)
Therapy Amounts: Medium	0.097	1.102	(1.041-1.167)
Therapy Amounts: High	-0.158	0.854	(0.799-0.912)
Constant	4.818	123.752	

Number of Risk Factors: 43

Developmental Sample R² = 0.034

Developmental Sample C-statistic = 0.702

Validation Sample R² = 0.032

Validation Sample C-statistic = 0.699

¹ SOC = Start of Care, ROC = Resumption of Care after inpatient stay. Risk factors values are based on SOC/ROC assessment values for the episode of care.

² Most risk factors take on the values 0 and 1; 1 denotes the presence of the attribute and 0 denotes its absence. In virtually all cases, each response option for an OASIS item is a risk factor. In a small number of cases (e.g., number of pressure ulcers at Stage III), the actual number provided in the assessment is used.

³ Because all response option values for an OASIS item are included as risk factors in a model even if only one option value is statistically significant, the following superscripts are used to denote the statistical significance for each risk factor coefficient:

Blank = significant at probability<.01

a = significant at .01<probability<.05

b = significant at .05<probability<.10

c = not significant, probability>.10

Table 27: Stabilization in Bathing

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Acute condition: Open wound/lesion	-0.233	0.792	(0.695-0.903)
ADL Assistance: None needed	0.351	1.420	(1.277-1.579)
Bathing: Independently in shower/tub	-4.445	0.012	(0.010-0.014)
Bathing: With the use of devices in shower/tub	-2.905	0.055	(0.046-0.065)
Bathing: With intermittent assistance in shower/tub	-2.029	0.131	(0.112-0.154)
Bathing: Participates with supervision in shower/tub	-0.724	0.485	(0.420-0.560)
Bathing: Independent at sink, in chair, or on commode	-0.934	0.393	(0.325-0.475)
Start of Care-Further visits planned	0.371	1.450	(1.329-1.581)
Management of Equipment: Caregiver currently provides	-0.262	0.770	(0.713-0.831)
Grooming: Grooming utensils must be placed within reach	0.098 ^b	1.103	(0.999-1.217)
Grooming: Assistance needed	-0.149 ^a	0.861	(0.759-0.978)
Grooming: Entirely dependent upon someone else	-0.302	0.739	(0.592-0.923)
Home Care Diagnosis: Musculoskeletal system diseases	0.090	1.094	(1.026-1.167)
Home Care Diagnosis: Neoplasms	-0.647	0.523	(0.474-0.578)
Home Care Diagnosis: Nervous system diseases	-0.110	0.896	(0.829-0.969)
Home Care Diagnosis: Skin/subcutaneous diseases	-0.192	0.826	(0.736-0.926)
Discharged from long-term nursing facility (NF) past 14 days	-0.406	0.666	(0.526-0.843)
Ability to Dress Lower Body: Needs clothing/shoes laid out	0.018 ^c	1.018	(0.905-1.145)
Ability to Dress Lower Body: Assist needed putting on clothing	-0.142 ^a	0.868	(0.769-0.979)
Ability to Dress Lower Body: Entirely dependent upon someone else	-0.279	0.757	(0.629-0.910)
Urinary incontinence/catheter: Incontinent	-0.086 ^a	0.918	(0.857-0.983)
Urinary incontinence/catheter: Catheter	-0.166 ^a	0.847	(0.719-0.998)
Medication Assistance: Caregiver currently provides	-0.229	0.795	(0.742-0.852)
Drug Regimen Review: Problems found	0.087 ^a	1.090	(1.009-1.179)
Change in medical or treatment regimen in past 14 days	0.184	1.202	(1.098-1.316)
Age: 18-64	0.088 ^b	1.092	(0.983-1.213)
Age: 75-84	-0.190	0.827	(0.761-0.899)
Age: 85 and over	-0.441	0.644	(0.589-0.703)
Ambulation/Locomotion: One-handed device on all surfaces	-0.396	0.673	(0.598-0.758)
Ambulation/Locomotion: Two-handed device/human assist on steps	-0.644	0.525	(0.467-0.590)
Ambulation/Locomotion: Walks only with supervision or assist	-0.615	0.541	(0.468-0.625)
Ambulation/Locomotion: Chairfast or bedfast	-1.251	0.286	(0.241-0.340)
Toilet Transferring: To/from/on/off toilet with human assist	-0.015 ^c	0.985	(0.894-1.085)
Toilet Transferring: Able to self-transfer to bedside commode	-0.227	0.797	(0.681-0.933)
Toilet Transferring: Unable to transfer to/from toilet or commode	-0.601	0.548	(0.445-0.675)
Patient Overall Status: Temporary high health risk	0.098 ^a	1.103	(1.016-1.197)
Patient Overall Status: Fragile health	-0.190	0.827	(0.751-0.910)
Patient Overall Status: Serious progressive conditions	-0.738	0.478	(0.413-0.554)
Prior Functioning: Needed assistance with household tasks	-0.136	0.873	(0.825-0.924)
Prior Functioning: Needed assistance with self care	-0.261	0.770	(0.715-0.829)

Table 27: Stabilization in Bathing (continued)

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Use of Telephone: Able to use specially adapted telephone	0.157 ^a	1.170	(1.035-1.322)
Use of Telephone: Able to answer but difficulty placing calls	-0.125 ^a	0.883	(0.785-0.993)
Use of Telephone: Limited ability to answer or converse	-0.120 ^b	0.887	(0.778-1.010)
Use of Telephone: Unable to answer but listens with assistance	-0.475	0.622	(0.526-0.735)
Use of Telephone: Totally unable	-0.353	0.703	(0.586-0.842)
PHQ-2 Loss of Interest: Several days in past 2 weeks	-0.063 ^c	0.939	(0.863-1.022)
PHQ-2 Loss of Interest: More than half of days in past 2 weeks	-0.084 ^c	0.919	(0.782-1.081)
PHQ-2 Loss of Interest: Nearly every day in past 2 weeks	-0.292	0.747	(0.634-0.880)
Pressure ulcer assessment indicates risk	-0.338	0.713	(0.660-0.771)
Risk for Hospitalization: Presence of frailty indicators	-0.078 ^a	0.925	(0.860-0.994)
Risk for Hospitalization: Recent mental/emotional decline	-0.179	0.836	(0.766-0.912)
Surgical Wound Present	0.332	1.394	(1.284-1.513)
Episode Timing: Early	0.301	1.351	(1.224-1.491)
Toilet Hygiene Assistance: Needs supplies laid out	0.168	1.183	(1.070-1.309)
Toilet Hygiene Assistance: Needs assistance	-0.058 ^c	0.944	(0.828-1.076)
Toilet Hygiene Assistance: Entirely dependent	-0.223 ^a	0.800	(0.640-0.999)
Constant	5.793	327.991	

Number of Risk Factors: 56

Developmental Sample R² = 0.062

Validation Sample R² = 0.063

Developmental Sample C-statistic = 0.787

Validation Sample C-statistic = 0.78

¹ SOC = Start of Care, ROC = Resumption of Care after inpatient stay. Risk factors values are based on SOC/ROC assessment values for the episode of care.

² Most risk factors take on the values 0 and 1; 1 denotes the presence of the attribute and 0 denotes its absence. In virtually all cases, each response option for an OASIS item is a risk factor. In a small number of cases (e.g., number of pressure ulcers at Stage III), the actual number provided in the assessment is used.

³ Because all response option values for an OASIS item are included as risk factors in a model even if only one option value is statistically significant, the following superscripts are used to denote the statistical significance for each risk factor coefficient:

- Blank = significant at probability<.01
- a = significant at .01<probability<.05
- b = significant at .05<probability<.10
- c = not significant, probability>.10

Table 28: Stabilization in Bed Transferring

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Start of Care-Further visits planned	0.402	1.494	(1.358-1.645)
Management of Equipment: Caregiver currently provides	-0.213	0.808	(0.745-0.876)
Grooming: Grooming utensils must be placed within reach	-0.127 ^a	0.881	(0.788-0.985)
Grooming: Assistance needed	-0.279	0.756	(0.660-0.866)
Grooming: Entirely dependent upon someone else	-0.491	0.612	(0.502-0.746)
Home Care Diagnosis: Neoplasms	-0.509	0.601	(0.538-0.672)
Home Care Diagnosis: Nervous system diseases	-0.105 ^a	0.900	(0.827-0.980)
Discharged from Short-stay acute hospital (IPP S) past 14 days	0.195	1.216	(1.131-1.306)
Ability to Dress Lower Body: Needs clothing/shoes laid out	-0.023 ^c	0.977	(0.863-1.106)
Ability to Dress Lower Body: Assist needed putting on clothing	-0.282	0.754	(0.671-0.848)
Ability to Dress Lower Body: Entirely dependent upon someone else	-0.536	0.585	(0.486-0.704)
Lives in congregate situation with around the clock assistance	0.159	1.173	(1.047-1.313)
Urinary incontinence/catheter: Incontinent	-0.125	0.882	(0.816-0.954)
Urinary incontinence/catheter: Catheter	-0.337	0.714	(0.610-0.836)
Age: 18-64	0.035 ^c	1.036	(0.923-1.163)
Age: 75-84	-0.105 ^a	0.900	(0.820-0.987)
Age: 85 and over	-0.349	0.705	(0.640-0.777)
Ambulation/Locomotion: One-handed device on all surfaces	-0.627	0.534	(0.472-0.605)
Ambulation/Locomotion: Two-handed device/human assist on steps	-0.883	0.414	(0.368-0.465)
Ambulation/Locomotion: Walks only with supervision or assist	-0.870	0.419	(0.361-0.486)
Ambulation/Locomotion: Chairfast or bedfast	-1.829	0.161	(0.134-0.193)
Toilet Transferring: To/from/on/off toilet with human assist	-0.329	0.719	(0.635-0.815)
Toilet Transferring: Able to self-transfer to bedside commode	-0.601	0.548	(0.455-0.660)
Toilet Transferring: Unable to transfer to/from toilet or commode	-0.859	0.424	(0.343-0.523)
Patient Overall Status: Temporary high health risk	0.134	1.143	(1.042-1.254)
Patient Overall Status: Fragile health	-0.182	0.834	(0.752-0.924)
Patient Overall Status: Serious progressive conditions	-0.695	0.499	(0.431-0.578)
Management of Oral Meds: Advance dose prep/chart needed	0.013 ^c	1.013	(0.924-1.111)
Management of Oral Meds: Reminders needed	-0.044 ^c	0.957	(0.846-1.084)
Management of Oral Meds: Unable	-0.321	0.725	(0.644-0.818)
Prior Functioning: Needed assistance with ambulation	-0.176	0.839	(0.768-0.916)
Conditions Prior to Treatment: Severe memory loss	0.123 ^a	1.131	(1.023-1.250)
Prior Functioning: Needed assistance with transfer	-0.253	0.776	(0.703-0.858)
Frequency of Pain: Pain does not interfere with activity	-0.036 ^c	0.964	(0.862-1.079)
Frequency of Pain: Less often than daily	-0.181	0.835	(0.746-0.934)
Frequency of Pain: Daily, but not constant	0.071 ^b	1.073	(0.989-1.165)
Frequency of Pain: Constant	0.039 ^c	1.039	(0.915-1.180)
Pressure ulcer present: Stage II or higher	-0.402	0.669	(0.585-0.764)
Pressure ulcer assessment indicates risk	-0.341	0.711	(0.650-0.778)
Surgical Wound Present	0.325	1.384	(1.186-1.616)

Table 28: Stabilization in Bed Transferring (continued)

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Status of Surgical Wound: Fully granulating	0.000 ^c	1.000	(0.794-1.258)
Status of Surgical Wound: Early/partial granulation	0.269	1.309	(1.084-1.581)
Status of Surgical Wound: Not healing	0.398	1.489	(1.158-1.914)
Episode Timing: Early	0.478	1.613	(1.454-1.790)
Toilet Hygiene Assistance: Needs supplies laid out	0.118 ^b	1.125	(0.999-1.267)
Toilet Hygiene Assistance: Needs assistance	-0.280	0.756	(0.654-0.873)
Toilet Hygiene Assistance: Entirely dependent	-0.563	0.570	(0.457-0.709)
Transferring: Independent	-4.876	0.008	(0.006-0.010)
Transferring: With minimal human assistance or with device	-1.375	0.253	(0.206-0.310)
Transferring: Bears weight and pivots only	-0.441	0.643	(0.545-0.759)
Constant	7.247	1404.202	

Number of Risk Factors: 50

Developmental Sample R² = 0.083

Developmental Sample C-statistic = 0.858

Validation Sample R² = 0.075

Validation Sample C-statistic = 0.854

¹ SOC = Start of Care, ROC = Resumption of Care after inpatient stay. Risk factors values are based on SOC/ROC assessment values for the episode of care.

² Most risk factors take on the values 0 and 1; 1 denotes the presence of the attribute and 0 denotes its absence. In virtually all cases, each response option for an OASIS item is a risk factor. In a small number of cases (e.g., number of pressure ulcers at Stage III), the actual number provided in the assessment is used.

³ Because all response option values for an OASIS item are included as risk factors in a model even if only one option value is statistically significant, the following superscripts are used to denote the statistical significance for each risk factor coefficient:

Blank = significant at probability<.01

a = significant at .01<probability<.05

b = significant at .05<probability<.10

c = not significant, probability>.10

Table 29: Stabilization in Cognition

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Acute condition: Urinary incontinence	-0.322	0.725	(0.658-0.798)
Acute condition: Neurologic	-0.103	0.902	(0.838-0.972)
ADL Assistance: Caregiver provides	0.096	1.100	(1.028-1.178)
Chronic Conditions: Chronic patient with caregiver	-0.131	0.878	(0.813-0.947)
Chronic Conditions: Chronic Pain	0.185	1.203	(1.077-1.343)
Cognitive Functioning: Alert and focused	-4.337	0.013	(0.010-0.017)
Cognitive Functioning: Requires prompting under stress	-2.522	0.080	(0.064-0.101)
Cognitive Functioning: Requires assist in special circumstances	-1.411	0.244	(0.198-0.300)
Start of Care-Further visits planned	0.319	1.376	(1.267-1.494)
Grooming: Grooming utensils must be placed within reach	0.058 ^c	1.059	(0.966-1.161)
Grooming: Assistance needed	-0.046 ^c	0.955	(0.855-1.066)
Grooming: Entirely dependent upon someone else	-0.312	0.732	(0.608-0.881)
Home Care Diagnosis: Ill-defined conditions	-0.076 ^a	0.927	(0.875-0.982)
Home Care Diagnosis: Mental diseases	-0.381	0.683	(0.637-0.733)
Home Care Diagnosis: Musculoskeletal system diseases	0.117	1.124	(1.060-1.192)
Home Care Diagnosis: Neoplasms	-0.379	0.685	(0.619-0.758)
Home Care Diagnosis: Skin/subcutaneous diseases	-0.147	0.863	(0.786-0.948)
Discharged from long-term care hospital (LTCH) past 14 days	0.395	1.484	(1.161-1.896)
Discharged from Short-stay acute hospital (IPP S) past 14 days	0.208	1.232	(1.161-1.307)
Lives with other person(s) with around the clock assistance	0.094	1.099	(1.034-1.167)
Urinary incontinence/catheter: Incontinent	0.153	1.166	(1.070-1.269)
Urinary incontinence/catheter: Catheter	0.273	1.314	(1.117-1.545)
Medication Assistance: Caregiver currently provides	-0.163	0.850	(0.783-0.922)
Meal prep: Unable to plan/prepare light meals	0.077 ^b	1.080	(0.992-1.175)
Meal prep: Unable to reheat delivered meals	0.133	1.143	(1.035-1.261)
Drug Regimen Review: Problems found	0.092 ^a	1.097	(1.021-1.178)
Change in medical or treatment regimen in past 14 days	0.245	1.277	(1.145-1.424)
Age: 18-64	-0.111 ^a	0.895	(0.805-0.996)
Age: 75-84	-0.331	0.718	(0.663-0.777)
Age: 85 and over	-0.508	0.602	(0.554-0.654)
Bowel Incontinence Frequency: Less than once a week	-0.121 ^b	0.886	(0.781-1.005)
Bowel Incontinence Frequency: One to three times a week	-0.167	0.846	(0.751-0.954)
Bowel Incontinence Frequency: Four to six times a week or more	-0.272	0.762	(0.678-0.856)
Confused: In new or complex situations	-0.456	0.634	(0.591-0.680)
Confused: Sometimes	-0.883	0.414	(0.371-0.461)
Confused: Constantly	-1.316	0.268	(0.221-0.325)
Dyspnea: Walking more than 20 feet, climbing stairs	0.078 ^a	1.081	(1.007-1.161)
Dyspnea: Moderate exertion	0.147	1.159	(1.078-1.246)
Dyspnea: Minimal to no exertion	0.161	1.174	(1.072-1.286)
Difficulty in Speech: Minimal	-0.353	0.702	(0.648-0.761)

Table 29: Stabilization in Cognition (continued)

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Difficulty in Speech: Moderate	-0.561	0.570	(0.499-0.653)
Difficulty in Speech: Severe to nonresponsive	-0.809	0.445	(0.373-0.531)
Patient Overall Status: Temporary high health risk	0.017 ^c	1.017	(0.944-1.096)
Patient Overall Status: Fragile health	-0.102 ^a	0.903	(0.829-0.984)
Patient Overall Status: Serious progressive conditions	-0.455	0.635	(0.555-0.726)
Management of Oral Meds: Advance dose prep/chart needed	-0.244	0.784	(0.708-0.867)
Management of Oral Meds: Reminders needed	-0.491	0.612	(0.542-0.692)
Management of Oral Meds: Unable	-0.641	0.527	(0.460-0.604)
Conditions Prior to Treatment: None of listed conditions	0.408	1.503	(1.380-1.638)
Prior Management of Oral Meds: Needed assistance	-0.207	0.813	(0.769-0.861)
Frequency of Pain: Pain does not interfere with activity	0.022 ^c	1.022	(0.932-1.121)
Frequency of Pain: Less often than daily	0.044 ^c	1.045	(0.952-1.147)
Frequency of Pain: Daily, but not constant	0.212	1.237	(1.154-1.325)
Frequency of Pain: Constant	0.234	1.264	(1.129-1.415)
Use of Telephone: Able to use specially adapted telephone	-0.045 ^c	0.956	(0.862-1.060)
Use of Telephone: Able to answer but difficulty placing calls	-0.209	0.812	(0.734-0.897)
Use of Telephone: Limited ability to answer or converse	-0.308	0.735	(0.659-0.819)
Use of Telephone: Unable to answer but listens with assistance	-0.378	0.685	(0.596-0.788)
Use of Telephone: Totally unable	-0.589	0.555	(0.481-0.640)
Pressure Ulcer: Unstageable ulcer(s) present	-0.510	0.601	(0.469-0.770)
Risk Factors: Obesity	0.222	1.249	(1.154-1.351)
Surgical Wound Present	0.469	1.598	(1.479-1.727)
Episode Timing: Early	0.210	1.234	(1.120-1.359)
Therapy Amounts: Low	-0.066 ^c	0.936	(0.852-1.030)
Therapy Amounts: Medium	0.009 ^c	1.009	(0.940-1.084)
Therapy Amounts: High	-0.198	0.820	(0.756-0.890)
Ability to Dress Upper Body: Needs clothing laid out	-0.030 ^c	0.970	(0.877-1.073)
Ability to Dress Upper Body: Needs assistance putting on clothing	-0.218	0.804	(0.716-0.902)
Ability to Dress Upper Body: Entirely dependent upon someone else	-0.348	0.706	(0.588-0.848)
Verbal Understanding: Most of the time	-0.210	0.810	(0.748-0.877)
Verbal Understanding: Sometimes	-0.416	0.659	(0.572-0.761)
Verbal Understanding: Rarely or never	-0.805	0.447	(0.303-0.660)
Vision: Partially impaired	0.096	1.101	(1.031-1.176)
Vision: Severely impaired	0.200 ^a	1.222	(1.010-1.479)
Constant	6.841	935.887	

Number of Risk Factors: 74

Developmental Sample R² = 0.064

Developmental Sample C-statistic = 0.774

Validation Sample R² = 0.063

Validation Sample C-statistic = 0.774

Table 29: Stabilization in Cognition (continued)

¹ SOC = Start of Care, ROC = Resumption of Care after inpatient stay. Risk factors values are based on SOC/ROC assessment values for the episode of care.

² Most risk factors take on the values 0 and 1; 1 denotes the presence of the attribute and 0 denotes its absence. In virtually all cases, each response option for an OASIS item is a risk factor. In a small number of cases (e.g., number of pressure ulcers at Stage III), the actual number provided in the assessment is used.

³ Because all response option values for an OASIS item are included as risk factors in a model even if only one option value is statistically significant, the following superscripts are used to denote the statistical significance for each risk factor coefficient:

Blank = significant at probability < .01

a = significant at .01 < probability < .05

b = significant at .05 < probability < .10

c = not significant, probability > .10

Table 30: Stabilization in Grooming

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Acute condition: Orthopedic	0.152	1.165	(1.079-1.257)
Bathing: With the use of devices in shower/tub	-0.135 ^c	0.874	(0.711-1.075)
Bathing: With intermittent assistance in shower/tub	-0.343	0.709	(0.580-0.868)
Bathing: Participates with supervision in shower/tub	-0.354	0.702	(0.569-0.865)
Bathing: Independent at sink, in chair, or on commode	-0.244 ^a	0.784	(0.624-0.985)
Bathing: Participates with assist at sink, in chair, or commode	-0.426	0.653	(0.521-0.818)
Bathing: Unable to participate; bathed totally by another	-0.788	0.455	(0.346-0.597)
Start of Care-Further visits planned	0.348	1.416	(1.285-1.561)
Management of Equipment: Caregiver currently provides	-0.275	0.759	(0.703-0.821)
Grooming: Able to groom self unaided	-3.161	0.042	(0.037-0.049)
Grooming: Grooming utensils must be placed within reach	-1.669	0.188	(0.168-0.212)
Home Care Diagnosis: Mental diseases	-0.149	0.862	(0.791-0.939)
Home Care Diagnosis: Neoplasms	-0.732	0.481	(0.431-0.536)
Discharged from Short-stay acute hospital (IPP S) past 14 days	0.242	1.274	(1.186-1.369)
Ability to Dress Lower Body: Needs clothing/shoes laid out	-0.259	0.772	(0.664-0.896)
Ability to Dress Lower Body: Assist needed putting on clothing	-0.388	0.679	(0.589-0.781)
Ability to Dress Lower Body: Entirely dependent upon someone else	-0.481	0.618	(0.507-0.753)
Lives alone with occasional/short term assistance	0.351	1.420	(1.231-1.638)
Change in medical or treatment regimen in past 14 days	0.290	1.336	(1.168-1.528)
Age: 18-64	-0.101 ^c	0.904	(0.801-1.020)
Age: 75-84	-0.133	0.875	(0.797-0.961)
Age: 85 and over	-0.326	0.721	(0.655-0.795)
Ambulation/Locomotion: One-handed device on all surfaces	-0.069 ^c	0.933	(0.794-1.097)
Ambulation/Locomotion: Two-handed device/human assist on steps	-0.178 ^a	0.837	(0.716-0.978)
Ambulation/Locomotion: Walks only with supervision or assist	-0.129 ^c	0.879	(0.738-1.048)
Ambulation/Locomotion: Chairfast or bedfast	-0.524	0.592	(0.481-0.728)
Bowel Incontinence Frequency: Less than once a week	-0.224	0.799	(0.694-0.921)
Bowel Incontinence Frequency: One to three times a week	0.022 ^c	1.022	(0.877-1.191)
Bowel Incontinence Frequency: Four to six times a week or more	-0.211	0.810	(0.695-0.944)
Confused: In new or complex situations	0.019 ^c	1.019	(0.937-1.108)
Confused: Sometimes	-0.068 ^c	0.934	(0.824-1.059)
Confused: Constantly	-0.391	0.676	(0.547-0.836)
Eating: Requires set up, intermittent assist or modified consistency	-0.091 ^a	0.913	(0.845-0.987)
Eating: Unable to feed self and must be assisted throughout meal	-0.403	0.668	(0.544-0.822)
Eating: Requires tube feedings, or no nutrients orally or via tube	-0.122 ^c	0.885	(0.625-1.254)
Difficulty in Speech: Minimal	-0.088 ^a	0.916	(0.842-0.997)
Difficulty in Speech: Moderate	-0.256	0.774	(0.672-0.890)
Difficulty in Speech: Severe to nonresponsive	-0.300	0.741	(0.594-0.923)
Toilet Transferring: To/from/on/off toilet with human assist	-0.095 ^b	0.909	(0.824-1.004)
Toilet Transferring: Able to self-transfer to bedside commode	-0.328	0.720	(0.618-0.840)

Table 30: Stabilization in Grooming (continued)

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Toilet Transferring: Unable to transfer to/from toilet or commode	-0.440	0.644	(0.523-0.794)
Patient Overall Status: Temporary high health risk	0.003 ^c	1.003	(0.912-1.103)
Patient Overall Status: Fragile health	-0.289	0.749	(0.674-0.831)
Patient Overall Status: Serious progressive conditions	-0.890	0.411	(0.353-0.477)
Management of Oral Meds: Advance dose prep/chart needed	-0.098 ^b	0.907	(0.814-1.011)
Management of Oral Meds: Reminders needed	-0.299	0.742	(0.647-0.850)
Management of Oral Meds: Unable	-0.430	0.650	(0.556-0.760)
Prior Functioning: Needed assistance with ambulation	-0.281	0.755	(0.708-0.805)
Conditions Prior to Treatment: Severe memory loss	-0.136	0.872	(0.788-0.966)
Prior Management of Oral Meds: Needed assistance	-0.205	0.814	(0.759-0.874)
Frequency of Pain: Pain does not interfere with activity	-0.021 ^c	0.980	(0.877-1.095)
Frequency of Pain: Less often than daily	0.077 ^c	1.080	(0.964-1.211)
Frequency of Pain: Daily, but not constant	0.176	1.193	(1.099-1.295)
Frequency of Pain: Constant	0.030 ^c	1.030	(0.912-1.164)
Use of Telephone: Able to use specially adapted telephone	-0.172	0.842	(0.745-0.952)
Use of Telephone: Able to answer but difficulty placing calls	-0.197	0.822	(0.729-0.926)
Use of Telephone: Limited ability to answer or converse	-0.278	0.758	(0.665-0.864)
Use of Telephone: Unable to answer but listens with assistance	-0.533	0.587	(0.494-0.698)
Use of Telephone: Totally unable	-0.629	0.533	(0.444-0.640)
Pressure ulcer present: Stage II or higher	-0.449	0.638	(0.554-0.735)
Surgical Wound Present	0.481	1.618	(1.371-1.909)
Status of Surgical Wound: Fully granulating	-0.051 ^c	0.950	(0.745-1.211)
Status of Surgical Wound: Early/partial granulation	0.284	1.328	(1.080-1.634)
Status of Surgical Wound: Not healing	0.419	1.520	(1.141-2.025)
Therapy Amounts: Low	0.053 ^c	1.055	(0.942-1.181)
Therapy Amounts: Medium	0.275	1.317	(1.207-1.436)
Therapy Amounts: High	0.047 ^c	1.048	(0.949-1.157)
Episode Timing: Early	0.377	1.458	(1.308-1.625)
Toilet Hygiene Assistance: Needs supplies laid out	-0.045 ^c	0.956	(0.862-1.059)
Toilet Hygiene Assistance: Needs assistance	-0.355	0.701	(0.619-0.794)
Toilet Hygiene Assistance: Entirely dependent	-0.601	0.548	(0.441-0.682)
Ability to Dress Upper Body: Needs clothing laid out	-0.122 ^b	0.885	(0.777-1.009)
Ability to Dress Upper Body: Needs assistance putting on clothing	-0.610	0.543	(0.472-0.626)
Ability to Dress Upper Body: Entirely dependent upon someone else	-0.925	0.397	(0.311-0.506)
Constant	6.382	591.305	

Number of Risk Factors: 74

Developmental Sample R² = 0.069

Developmental Sample C-statistic = 0.808

Validation Sample R² = 0.061

Validation Sample C-statistic = 0.804

Table 30: Stabilization in Grooming (continued)

¹ SOC = Start of Care, ROC = Resumption of Care after inpatient stay. Risk factors values are based on SOC/ROC assessment values for the episode of care.

² Most risk factors take on the values 0 and 1; 1 denotes the presence of the attribute and 0 denotes its absence. In virtually all cases, each response option for an OASIS item is a risk factor. In a small number of cases (e.g., number of pressure ulcers at Stage III), the actual number provided in the assessment is used.

³ Because all response option values for an OASIS item are included as risk factors in a model even if only one option value is statistically significant, the following superscripts are used to denote the statistical significance for each risk factor coefficient:

- Blank = significant at probability<.01
- a = significant at .01<probability<.05
- b = significant at .05<probability<.10
- c = not significant, probability>.10

Table 31: Stabilization in Light Meal Preparation

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Acute condition: Oxygen therapy	-0.152	0.859	(0.784-0.941)
Anxiety: Less often than daily	0.067 ^b	1.069	(0.988-1.157)
Anxiety: Daily, but not constantly	0.101 ^a	1.106	(1.002-1.222)
Anxiety: All of the time	0.135 ^c	1.145	(0.870-1.506)
Chronic Conditions: Chronic patient with caregiver	-0.165	0.848	(0.778-0.924)
Start of Care-Further visits planned	0.138	1.148	(1.037-1.271)
Patient is male	0.149	1.161	(1.085-1.242)
Grooming: Grooming utensils must be placed within reach	0.006 ^c	1.006	(0.912-1.110)
Grooming: Assistance needed	-0.186	0.830	(0.731-0.944)
Grooming: Entirely dependent upon someone else	0.041 ^c	1.042	(0.706-1.539)
Home Care Diagnosis: Mental diseases	-0.233	0.792	(0.724-0.867)
Home Care Diagnosis: Neoplasms	-0.652	0.521	(0.467-0.582)
Home Care Diagnosis: Nervous system diseases	-0.146	0.864	(0.795-0.940)
Ability to Dress Lower Body: Needs clothing/shoes laid out	-0.179 ^a	0.837	(0.730-0.959)
Ability to Dress Lower Body: Assist needed putting on clothing	-0.240	0.787	(0.692-0.895)
Ability to Dress Lower Body: Entirely dependent upon someone else	-0.434	0.648	(0.517-0.812)
Lives alone with round the clock assistance	0.480	1.616	(1.461-1.787)
Lives in congregate situation with around the clock assistance	-0.741	0.476	(0.427-0.532)
Lives alone with occasional/short term assistance	0.456	1.577	(1.377-1.807)
Medication Assistance: Caregiver currently provides	-0.337	0.714	(0.650-0.784)
Meal prep: Independently able to plan/prepare light meals	-1.407	0.245	(0.226-0.265)
Change in medical or treatment regimen in past 14 days	0.320	1.377	(1.257-1.508)
Age: 18-64	-0.042 ^c	0.959	(0.853-1.077)
Age: 75-84	-0.209	0.811	(0.741-0.887)
Age: 85 and over	-0.484	0.616	(0.560-0.678)
Ambulation/Locomotion: One-handed device on all surfaces	-0.150 ^a	0.861	(0.754-0.983)
Ambulation/Locomotion: Two-handed device/human assist on steps	-0.248	0.780	(0.686-0.886)
Ambulation/Locomotion: Walks only with supervision or assist	-0.240	0.787	(0.675-0.917)
Ambulation/Locomotion: Chairfast or bedfast	-0.654	0.520	(0.426-0.634)
Confused: In new or complex situations	-0.008 ^c	0.992	(0.918-1.073)
Confused: Sometimes	-0.198	0.820	(0.722-0.931)
Confused: Constantly	-0.405	0.667	(0.493-0.903)
Toilet Transferring: To/from/on/off toilet with human assist	-0.003 ^c	0.997	(0.915-1.087)
Toilet Transferring: Able to self-transfer to bedside commode	-0.195 ^a	0.823	(0.701-0.965)
Toilet Transferring: Unable to transfer to/from toilet or commode	-0.415	0.661	(0.503-0.868)
Patient Overall Status: Temporary high health risk	0.026 ^c	1.026	(0.941-1.118)
Patient Overall Status: Fragile health	-0.178	0.837	(0.756-0.927)
Patient Overall Status: Serious progressive conditions	-0.520	0.595	(0.498-0.710)
Management of Oral Meds: Advance dose prep/chart needed	-0.036 ^c	0.965	(0.870-1.070)
Management of Oral Meds: Reminders needed	-0.174	0.841	(0.737-0.958)
Management of Oral Meds: Unable	-0.636	0.530	(0.461-0.608)
Prior Functioning: Needed assistance with household tasks	-0.386	0.680	(0.644-0.718)
Frequency of Pain: Pain does not interfere with activity	0.104 ^b	1.110	(0.994-1.238)
Frequency of Pain: Less often than daily	0.062 ^c	1.064	(0.952-1.188)

Table 31: Stabilization in Light Meal Preparation (continued)

Risk Factor Measured at SOC/ROC ^{1,2}	Coefficient ³	Odds ratio ³	(95% CI)
Frequency of Pain: Daily, but not constant	0.333	1.396	(1.287-1.514)
Frequency of Pain: Constant	0.208	1.231	(1.089-1.392)
Use of Telephone: Able to use specially adapted telephone	-0.154 ^a	0.858	(0.763-0.964)
Use of Telephone: Able to answer but difficulty placing calls	-0.245	0.783	(0.691-0.887)
Use of Telephone: Limited ability to answer or converse	-0.146 ^b	0.865	(0.743-1.007)
Use of Telephone: Unable to answer but listens with assistance	-0.773	0.462	(0.364-0.586)
Use of Telephone: Totally unable	-0.551	0.576	(0.431-0.770)
PHQ-2 Loss of Interest: Several days in past 2 weeks	-0.148	0.863	(0.786-0.946)
PHQ-2 Loss of Interest: More than half of days in past 2 weeks	-0.171 ^b	0.843	(0.705-1.007)
PHQ-2 Loss of Interest: Nearly every day in past 2 weeks	-0.371	0.690	(0.572-0.833)
Pressure ulcer present: Stage II or higher	-0.285	0.752	(0.629-0.898)
Pressure ulcer assessment indicates risk	-0.153	0.859	(0.789-0.934)
Risk for Hospitalization: Recent mental/emotional decline	-0.148	0.862	(0.780-0.953)
Supervision and Safety Assistance: Caregiver currently provides	-0.148	0.863	(0.801-0.930)
Therapy Amounts: Low	-0.045 ^c	0.956	(0.854-1.071)
Therapy Amounts: Medium	-0.012 ^c	0.988	(0.910-1.073)
Therapy Amounts: High	-0.152	0.859	(0.781-0.945)
Episode Timing: Early	0.356	1.428	(1.277-1.597)
Ability to Dress Upper Body: Needs clothing laid out	-0.044 ^c	0.957	(0.839-1.091)
Ability to Dress Upper Body: Needs assistance putting on clothing	-0.299	0.742	(0.641-0.858)
Ability to Dress Upper Body: Entirely dependent upon someone else	-0.484	0.616	(0.429-0.885)
Vision: Partially impaired	0.057 ^c	1.059	(0.975-1.149)
Vision: Severely impaired	-0.535	0.586	(0.463-0.742)
Constant	4.373	79.316	

Number of Risk Factors: 67

Developmental Sample R² = 0.074

Validation Sample R² = 0.072

Developmental Sample C-statistic = 0.779

Validation Sample C-statistic = 0.779

¹ SOC = Start of Care, ROC = Resumption of Care after inpatient stay. Risk factors values are based on SOC/ROC assessment values for the episode of care.

² Most risk factors take on the values 0 and 1; 1 denotes the presence of the attribute and 0 denotes its absence. In virtually all cases, each response option for an OASIS item is a risk factor. In a small number of cases (e.g., number of pressure ulcers at Stage III), the actual number provided in the assessment is used.

³ Because all response option values for an OASIS item are included as risk factors in a model even if only one option value is statistically significant, the following superscripts are used to denote the statistical significance for each risk factor coefficient:

- Blank = significant at probability < .01
- a = significant at .01 < probability < .05
- b = significant at .05 < probability < .10
- c = not significant, probability > .10

Table 32: Stabilization in Management of Oral Medications

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Acute condition: Orthopedic	0.099	1.104	(1.045-1.167)
Chronic Conditions: Chronic patient with caregiver	-0.370	0.691	(0.652-0.731)
Start of Care-Further visits planned	0.334	1.396	(1.293-1.508)
Patient is male	0.189	1.208	(1.148-1.272)
Home Care Diagnosis: Mental diseases	-0.136	0.873	(0.812-0.939)
Home Care Diagnosis: Neoplasms	-0.386	0.680	(0.621-0.744)
Management of Injectable Medications: None prescribed	-0.112	0.894	(0.839-0.953)
Discharged from Short-stay acute hospital (IPP S) past 14 days	0.184	1.202	(1.138-1.269)
Lives in congregate situation with around the clock assistance	-0.924	0.397	(0.361-0.437)
Lives in congregate situation with regular nighttime assistance	-1.312 ^a	0.269	(0.089-0.812)
Bowel Incontinence Frequency: Less than once a week	-0.162 ^a	0.850	(0.747-0.968)
Bowel Incontinence Frequency: One to three times a week	-0.182	0.834	(0.730-0.953)
Bowel Incontinence Frequency: Four to six times a week or more	-0.551	0.577	(0.502-0.662)
Cognitive Functioning: Requires prompting under stress	-0.061 ^c	0.941	(0.870-1.018)
Cognitive Functioning: Requires assist in special circumstances	-0.127 ^b	0.881	(0.775-1.001)
Cognitive Function: Requires considerable assist/totally dependent	-0.355	0.701	(0.543-0.906)
Confused: In new or complex situations	-0.218	0.804	(0.750-0.863)
Confused: Sometimes	-0.578	0.561	(0.500-0.629)
Confused: Constantly	-0.984	0.374	(0.285-0.490)
Difficulty in Speech: Minimal	-0.103	0.902	(0.841-0.967)
Difficulty in Speech: Moderate	-0.156 ^a	0.855	(0.745-0.982)
Difficulty in Speech: Severe to nonresponsive	-0.223 ^b	0.800	(0.633-1.012)
Patient Overall Status: Temporary high health risk	0.077 ^a	1.080	(1.009-1.156)
Patient Overall Status: Fragile health	-0.157	0.855	(0.790-0.926)
Patient Overall Status: Serious progressive conditions	-0.557	0.573	(0.502-0.653)
Management of Oral Meds: Independent	-0.943	0.389	(0.357-0.425)
Management of Oral Meds: Advance dose prep/chart needed	-0.352	0.703	(0.651-0.760)
Conditions Prior to Treatment: Severe memory loss	-0.259	0.772	(0.701-0.849)
Frequency of Pain: Pain does not interfere with activity	0.135	1.145	(1.047-1.251)
Frequency of Pain: Less often than daily	0.107 ^a	1.113	(1.019-1.216)
Frequency of Pain: Daily, but not constant	0.314	1.369	(1.286-1.458)
Frequency of Pain: Constant	0.465	1.592	(1.443-1.756)
Use of Telephone: Able to use specially adapted telephone	-0.091 ^b	0.913	(0.829-1.005)
Use of Telephone: Able to answer but difficulty placing calls	-0.523	0.593	(0.538-0.653)
Use of Telephone: Limited ability to answer or converse	-0.542	0.582	(0.519-0.652)
Use of Telephone: Unable to answer but listens with assistance	-1.331	0.264	(0.221-0.316)
Use of Telephone: Totally unable	-1.020	0.361	(0.296-0.439)
Supervision and Safety Assistance: None needed	0.317	1.373	(1.295-1.457)
Surgical Wound Present	0.455	1.576	(1.402-1.770)
Status of Surgical Wound: Fully granulating	-0.102 ^c	0.903	(0.764-1.067)

Table 32: Stabilization in Management of Oral Medications (continued)

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Status of Surgical Wound: Early/partial granulation	0.193	1.213	(1.055-1.394)
Status of Surgical Wound: Not healing	0.271	1.311	(1.087-1.582)
Constant	3.129	22.852	

Number of Risk Factors: 42

Developmental Sample R² = 0.041

Validation Sample R² = 0.043

Developmental Sample C-statistic = 0.711

Validation Sample C-statistic = 0.711

¹ SOC = Start of Care, ROC = Resumption of Care after inpatient stay. Risk factors values are based on SOC/ROC assessment values for the episode of care.

² Most risk factors take on the values 0 and 1; 1 denotes the presence of the attribute and 0 denotes its absence. In virtually all cases, each response option for an OASIS item is a risk factor. In a small number of cases (e.g., number of pressure ulcers at Stage III), the actual number provided in the assessment is used.

³ Because all response option values for an OASIS item are included as risk factors in a model even if only one option value is statistically significant, the following superscripts are used to denote the statistical significance for each risk factor coefficient:

- Blank = significant at probability < .01
- a = significant at .01 < probability < .05
- b = significant at .05 < probability < .10
- c = not significant, probability > .10

Table 33: Stabilization in Phone Use

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Acute condition: Orthopedic	0.161	1.174	(1.104-1.249)
Anxiety: Less often than daily	0.066 ^a	1.069	(1.003-1.139)
Anxiety: Daily, but not constantly	0.107	1.112	(1.032-1.199)
Anxiety: All of the time	0.175 ^c	1.192	(0.962-1.477)
Bathing: With the use of devices in shower/tub	0.084 ^c	1.088	(0.912-1.298)
Bathing: With intermittent assistance in shower/tub	0.043 ^c	1.044	(0.881-1.237)
Bathing: Participates with supervision in shower/tub	0.128 ^c	1.136	(0.949-1.361)
Bathing: Independent at sink, in chair, or on commode	0.255 ^a	1.290	(1.056-1.577)
Bathing: Participates with assist at sink, in chair, or commode	0.205 ^a	1.228	(1.012-1.491)
Bathing: Unable to participate; bathed totally by another	-0.048 ^c	0.953	(0.766-1.186)
Chronic Conditions: Dependence in living skills	-0.138	0.871	(0.813-0.933)
Chronic Conditions: Cognitive/mental/behavioral	-0.211	0.810	(0.755-0.869)
Chronic Conditions: Chronic Pain	0.172	1.188	(1.079-1.308)
Chronic Conditions: Dependence in personal care	-0.155	0.857	(0.782-0.939)
Start of Care-Further visits planned	0.266	1.304	(1.200-1.417)
Grooming: Grooming utensils must be placed within reach	-0.169	0.845	(0.765-0.932)
Grooming: Assistance needed	-0.270	0.763	(0.680-0.856)
Grooming: Entirely dependent upon someone else	-0.325	0.722	(0.603-0.865)
Home Care Diagnosis: Mental diseases	-0.215	0.806	(0.754-0.862)
Home Care Diagnosis: Neoplasms	-0.496	0.609	(0.552-0.672)
Hearing: Mildly to moderately impaired	-0.085	0.918	(0.866-0.974)
Hearing: Severely impaired	-0.582	0.559	(0.468-0.667)
Discharged from Short-stay acute hospital (IPP S) past 14 days	0.203	1.226	(1.153-1.302)
Lives in congregate situation with around the clock assistance	-0.287	0.751	(0.696-0.810)
Medication Assistance: Caregiver currently provides	-0.249	0.780	(0.723-0.841)
Change in medical or treatment regimen in past 14 days	0.225	1.252	(1.155-1.357)
Age: 18-64	-0.018 ^c	0.982	(0.883-1.094)
Age: 75-84	-0.131	0.877	(0.810-0.949)
Age: 85 and over	-0.387	0.679	(0.626-0.737)
Confused: In new or complex situations	-0.046 ^c	0.955	(0.889-1.025)
Confused: Sometimes	-0.265	0.767	(0.695-0.846)
Confused: Constantly	-0.554	0.575	(0.489-0.675)
Dyspnea: Walking more than 20 feet, climbing stairs	0.145	1.156	(1.077-1.242)
Dyspnea: Moderate exertion	0.216	1.241	(1.155-1.333)
Dyspnea: Minimal to no exertion	0.251	1.285	(1.175-1.405)
Difficulty in Speech: Minimal	-0.275	0.760	(0.711-0.812)
Difficulty in Speech: Moderate	-0.482	0.618	(0.556-0.686)
Difficulty in Speech: Severe to nonresponsive	-0.983	0.374	(0.318-0.440)
Toilet Transferring: To/from/on/off toilet with human assist	-0.072 ^b	0.930	(0.859-1.007)
Toilet Transferring: Able to self-transfer to bedside commode	-0.222	0.801	(0.712-0.902)

Table 33: Stabilization in Phone Use (continued)

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Toilet Transferring: Unable to transfer to/from toilet or commode	-0.378	0.685	(0.589-0.798)
Patient Overall Status: Temporary high health risk	0.072 ^b	1.074	(0.997-1.158)
Patient Overall Status: Fragile health	-0.081 ^b	0.922	(0.848-1.003)
Patient Overall Status: Serious progressive conditions	-0.461	0.631	(0.555-0.717)
Management of Oral Meds: Advance dose prep/chart needed	-0.297	0.743	(0.666-0.830)
Management of Oral Meds: Reminders needed	-0.456	0.634	(0.559-0.720)
Management of Oral Meds: Unable	-0.716	0.489	(0.425-0.562)
Prior Functioning: Needed assistance with ambulation	-0.099	0.906	(0.859-0.956)
Prior Management of Oral Meds: Needed assistance	-0.222	0.801	(0.756-0.848)
Frequency of Pain: Pain does not interfere with activity	0.042 ^c	1.043	(0.952-1.142)
Frequency of Pain: Less often than daily	-0.008 ^c	0.992	(0.910-1.082)
Frequency of Pain: Daily, but not constant	0.246	1.278	(1.193-1.370)
Frequency of Pain: Constant	0.396	1.486	(1.319-1.673)
Use of Telephone: Able to make and answer calls	-1.547	0.213	(0.186-0.244)
Use of Telephone: Able to use specially adapted telephone	-1.315	0.268	(0.232-0.311)
Use of Telephone: Able to answer but difficulty placing calls	-0.949	0.387	(0.338-0.444)
Use of Telephone: Limited ability to answer or converse	-0.392	0.676	(0.592-0.772)
Risk Factors: Obesity	0.305	1.356	(1.254-1.468)
Risk for Hospitalization: Recent mental/emotional decline	-0.103	0.902	(0.841-0.967)
Surgical Wound Present	0.575	1.776	(1.632-1.934)
Therapy Amounts: Low	-0.037 ^c	0.963	(0.878-1.057)
Therapy Amounts: Medium	0.120	1.128	(1.052-1.210)
Therapy Amounts: High	-0.159	0.853	(0.790-0.921)
Episode Timing: Early	0.249	1.283	(1.173-1.403)
Toilet Hygiene Assistance: Needs supplies laid out	0.005 ^c	1.005	(0.921-1.096)
Toilet Hygiene Assistance: Needs assistance	-0.123 ^a	0.884	(0.799-0.979)
Toilet Hygiene Assistance: Entirely dependent	-0.344	0.709	(0.602-0.835)
Ability to Dress Upper Body: Needs clothing laid out	-0.066 ^c	0.936	(0.837-1.046)
Ability to Dress Upper Body: Needs assistance putting on clothing	-0.214	0.807	(0.711-0.916)
Ability to Dress Upper Body: Entirely dependent upon someone else	-0.332	0.718	(0.595-0.866)
Vision: Partially impaired	-0.097	0.908	(0.853-0.965)
Vision: Severely impaired	-0.534	0.586	(0.500-0.688)
Constant	4.876	131.042	

Number of Risk Factors: 72

Developmental Sample R² = 0.077

Developmental Sample C-statistic = 0.801

Validation Sample R² = 0.070

Validation Sample C-statistic = 0.800

Table 33: Stabilization in Phone Use (continued)

¹ SOC = Start of Care, ROC = Resumption of Care after inpatient stay. Risk factors values are based on SOC/ROC assessment values for the episode of care.

² Most risk factors take on the values 0 and 1; 1 denotes the presence of the attribute and 0 denotes its absence. In virtually all cases, each response option for an OASIS item is a risk factor. In a small number of cases (e.g., number of pressure ulcers at Stage III), the actual number provided in the assessment is used.

³ Because all response option values for an OASIS item are included as risk factors in a model even if only one option value is statistically significant, the following superscripts are used to denote the statistical significance for each risk factor coefficient:

- Blank = significant at probability < .01
- a = significant at .01 < probability < .05
- b = significant at .05 < probability < .10
- c = not significant, probability > .10

Table 34: Stabilization in Speech / Language

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Acute condition: Enteral/parenteral nutrition	-0.474	0.623	(0.502-0.773)
Acute Condition: IV Therapies	0.370	1.448	(1.179-1.779)
Acute condition: Orthopedic	0.142	1.153	(1.079-1.232)
Acute Condition: Mental/Emotional	-0.298	0.743	(0.615-0.897)
Behavioral: Physical aggression to self/others	-0.370	0.691	(0.547-0.873)
Frequency of ADL /IADL Assistance: At least daily	0.318	1.374	(1.159-1.628)
Frequency of ADL /IADL Assistance: Three or more times per week	0.195 ^a	1.215	(1.006-1.468)
Frequency of ADL/IADL Assistance: One or two times per week	0.184 ^b	1.202	(0.982-1.471)
Frequency of ADL /IADL Assistance: Received less than weekly	0.122 ^c	1.130	(0.871-1.465)
Chronic Conditions: Chronic patient with caregiver	-0.182	0.834	(0.776-0.896)
Chronic Conditions: Cognitive/mental/behavioral	-0.088 ^a	0.916	(0.847-0.990)
Start of Care-Further visits planned	0.268	1.308	(1.205-1.420)
Grooming: Grooming utensils must be placed within reach	-0.011 ^c	0.989	(0.901-1.084)
Grooming: Assistance needed	-0.071 ^c	0.932	(0.833-1.041)
Grooming: Entirely dependent upon someone else	-0.319	0.727	(0.605-0.873)
Home Care Diagnosis: Mental diseases	-0.219	0.803	(0.750-0.861)
Home Care Diagnosis: Musculoskeletal system diseases	0.068 ^a	1.070	(1.006-1.139)
Home Care Diagnosis: Neoplasms	-0.338	0.713	(0.644-0.789)
Home Care Diagnosis: Nervous system diseases	-0.089	0.915	(0.855-0.978)
IADL Assistance: Caregiver currently provides	0.129	1.138	(1.031-1.255)
Discharged from skilled nursing facility (SNF / TCU) past 14 days	0.117	1.124	(1.039-1.216)
Discharged from Short-stay acute hospital (IPP S) past 14 days	0.294	1.342	(1.261-1.427)
Medication Assistance: Caregiver currently provides	-0.143	0.867	(0.800-0.939)
Age: 18-64	-0.247	0.781	(0.707-0.864)
Age: 75-84	-0.137	0.872	(0.807-0.941)
Age: 85 and over	-0.165	0.848	(0.782-0.919)
Bowel Incontinence Frequency: Less than once a week	-0.159 ^a	0.853	(0.756-0.963)
Bowel Incontinence Frequency: One to three times a week	-0.154	0.858	(0.766-0.961)
Bowel Incontinence Frequency: Four to six times a week or more	-0.226	0.798	(0.714-0.892)
Cognitive Functioning: Requires prompting under stress	-0.260	0.771	(0.709-0.839)
Cognitive Functioning: Requires assist in special circumstances	-0.498	0.607	(0.536-0.688)
Cognitive Function: Requires considerable assist/totally dependent	-0.583	0.558	(0.466-0.669)
Confused: In new or complex situations	-0.315	0.730	(0.675-0.789)
Confused: Sometimes	-0.512	0.599	(0.535-0.672)
Confused: Constantly	-0.563	0.570	(0.476-0.681)
Dyspnea: Walking more than 20 feet, climbing stairs	0.121	1.129	(1.051-1.213)
Dyspnea: Moderate exertion	0.147	1.158	(1.078-1.244)
Dyspnea: Minimal to no exertion	0.119	1.126	(1.031-1.230)
Patient Overall Status: Temporary high health risk	-0.034 ^c	0.967	(0.896-1.044)
Patient Overall Status: Fragile health	-0.151	0.860	(0.789-0.938)

Table 34: Stabilization in Speech / Language (continued)

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Patient Overall Status: Serious progressive conditions	-0.432	0.649	(0.569-0.741)
Management of Oral Meds: Advance dose prep/chart needed	-0.132 ^a	0.876	(0.792-0.970)
Management of Oral Meds: Reminders needed	-0.263	0.769	(0.680-0.870)
Management of Oral Meds: Unable	-0.389	0.678	(0.592-0.777)
Conditions Prior to Treatment: Intractable pain	0.160	1.174	(1.063-1.295)
Prior Management of Oral Meds: Needed assistance	-0.212	0.809	(0.764-0.857)
Frequency of Pain: Pain does not interfere with activity	0.067 ^c	1.069	(0.975-1.173)
Frequency of Pain: Less often than daily	0.156	1.169	(1.065-1.283)
Frequency of Pain: Daily, but not constant	0.234	1.264	(1.181-1.353)
Frequency of Pain: Constant	0.321	1.379	(1.231-1.545)
Use of Telephone: Able to use specially adapted telephone	-0.200	0.819	(0.739-0.907)
Use of Telephone: Able to answer but difficulty placing calls	-0.311	0.733	(0.664-0.808)
Use of Telephone: Limited ability to answer or converse	-0.527	0.591	(0.531-0.657)
Use of Telephone: Unable to answer but listens with assistance	-0.754	0.470	(0.412-0.537)
Use of Telephone: Totally unable	-1.036	0.355	(0.310-0.407)
Risk Factors: Obesity	0.164	1.178	(1.092-1.271)
Difficulty in Speech: No observable impairment	-4.088	0.017	(0.011-0.026)
Difficulty in Speech: Minimal	-2.377	0.093	(0.061-0.142)
Difficulty in Speech: Moderate	-1.551	0.212	(0.140-0.322)
Difficulty in Speech: Severe difficulty	-1.080	0.340	(0.224-0.514)
Surgical Wound Present	0.484	1.622	(1.499-1.755)
Therapy Amounts: Low	-0.061 ^c	0.941	(0.858-1.032)
Therapy Amounts: Medium	0.091 ^a	1.096	(1.020-1.177)
Therapy Amounts: High	-0.140	0.869	(0.801-0.943)
Episode Timing: Early	0.315	1.370	(1.250-1.503)
Ability to Dress Upper Body: Needs clothing laid out	-0.023 ^c	0.978	(0.884-1.081)
Ability to Dress Upper Body: Needs assistance putting on clothing	-0.218	0.804	(0.717-0.902)
Ability to Dress Upper Body: Entirely dependent upon someone else	-0.398	0.672	(0.561-0.804)
Verbal Understanding: Most of the time	-0.121	0.886	(0.820-0.958)
Verbal Understanding: Sometimes	-0.299	0.742	(0.645-0.853)
Verbal Understanding: Rarely or never	-0.610	0.543	(0.381-0.776)
Vision: Partially impaired	-0.005 ^c	0.995	(0.933-1.061)
Vision: Severely impaired	0.279	1.321	(1.089-1.602)
Constant	6.590	727.771	

Number of Risk Factors: 73

Developmental Sample R² = 0.064

Developmental Sample C-statistic = 0.771

Validation Sample R² = 0.064

Validation Sample C-statistic = 0.771

Table 34: Stabilization in Speech / Language (continued)

¹ SOC = Start of Care, ROC = Resumption of Care after inpatient stay. Risk factors values are based on SOC/ROC assessment values for the episode of care.

² Most risk factors take on the values 0 and 1; 1 denotes the presence of the attribute and 0 denotes its absence. In virtually all cases, each response option for an OASIS item is a risk factor. In a small number of cases (e.g., number of pressure ulcers at Stage III), the actual number provided in the assessment is used.

³ Because all response option values for an OASIS item are included as risk factors in a model even if only one option value is statistically significant, the following superscripts are used to denote the statistical significance for each risk factor coefficient:

- Blank = significant at probability<.01
- a = significant at .01<probability<.05
- b = significant at .05<probability<.10
- c = not significant, probability>.10

Table 35: Stabilization in Toilet Transferring

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Acute condition: Orthopedic	0.226	1.254	(1.153-1.364)
Start of Care-Further visits planned	0.355	1.426	(1.289-1.578)
Management of Equipment: Caregiver currently provides	-0.283	0.753	(0.693-0.819)
Grooming: Grooming utensils must be placed within reach	-0.201	0.818	(0.724-0.924)
Grooming: Assistance needed	-0.251	0.778	(0.671-0.903)
Grooming: Entirely dependent upon someone else	-0.348	0.706	(0.555-0.898)
Home Care Diagnosis: Neoplasms	-0.777	0.460	(0.409-0.517)
Ability to Dress Lower Body: Needs clothing/shoes laid out	-0.264	0.768	(0.636-0.927)
Ability to Dress Lower Body: Assist needed putting on clothing	-0.349	0.706	(0.590-0.844)
Ability to Dress Lower Body: Entirely dependent upon someone else	-0.479	0.619	(0.489-0.784)
Ambulation/Locomotion: One-handed device on all surfaces	-0.329	0.719	(0.586-0.883)
Ambulation/Locomotion: Two-handed device/human assist on steps	-0.479	0.619	(0.507-0.756)
Ambulation/Locomotion: Walks only with supervision or assist	-0.674	0.510	(0.410-0.635)
Ambulation/Locomotion: Chairfast or bedfast	-1.353	0.258	(0.203-0.329)
Bowel Incontinence Frequency: Less than once a week	-0.259	0.772	(0.665-0.896)
Bowel Incontinence Frequency: One to three times a week	-0.227	0.797	(0.687-0.926)
Bowel Incontinence Frequency: Four to six times a week or more	-0.440	0.644	(0.550-0.755)
Transferring: With minimal human assist or with device	-0.174	0.841	(0.741-0.953)
Transferring: Bears weight and pivots only	-0.410	0.664	(0.557-0.791)
Transferring: Unable or bedfast	-0.763	0.466	(0.368-0.591)
Patient Overall Status: Temporary high health risk	0.040 ^c	1.041	(0.936-1.158)
Patient Overall Status: Fragile health	-0.138 ^a	0.871	(0.775-0.978)
Patient Overall Status: Serious progressive conditions	-0.602	0.547	(0.466-0.643)
Prior Functioning: Needed assistance with ambulation	-0.279	0.756	(0.705-0.811)
Prior Management of Oral Meds: Needed assistance	-0.246	0.782	(0.737-0.830)
Frequency of Pain: Pain does not interfere with activity	0.050 ^c	1.051	(0.927-1.192)
Frequency of Pain: Less often than daily	0.044 ^c	1.045	(0.923-1.183)
Frequency of Pain: Daily, but not constant	0.198	1.220	(1.115-1.334)
Frequency of Pain: Constant	0.206	1.229	(1.071-1.410)
Use of Telephone: Able to use specially adapted telephone	-0.233	0.792	(0.692-0.908)
Use of Telephone: Able to answer but difficulty placing calls	-0.409	0.664	(0.586-0.753)
Use of Telephone: Limited ability to answer or converse	-0.389	0.678	(0.591-0.777)
Use of Telephone: Unable to answer but listens with assistance	-0.686	0.504	(0.425-0.596)
Use of Telephone: Totally unable	-0.746	0.474	(0.401-0.561)
Pressure ulcer assessment indicates risk	-0.272	0.762	(0.700-0.830)
Surgical Wound Present	0.387	1.473	(1.228-1.767)
Status of Surgical Wound: Fully granulating	0.050 ^c	1.051	(0.798-1.384)
Status of Surgical Wound: Early/partial granulation	0.445	1.560	(1.237-1.966)
Status of Surgical Wound: Not healing	0.483	1.620	(1.183-2.220)
Therapy Amounts: Low	-0.047 ^c	0.954	(0.846-1.075)

Table 35: Stabilization in Toilet Transferring (continued)

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Therapy Amounts: Medium	0.216	1.242	(1.130-1.364)
Therapy Amounts: High	0.022 ^c	1.022	(0.918-1.138)
Episode Timing: Early	0.271	1.311	(1.165-1.476)
Toilet Hygiene Assistance: Needs supplies laid out	-0.118 ^a	0.889	(0.798-0.989)
Toilet Hygiene Assistance: Needs assistance	-0.434	0.648	(0.564-0.744)
Toilet Hygiene Assistance: Entirely dependent	-0.588	0.556	(0.448-0.690)
Toilet Transferring: To/from/on/off toilet independently	-2.339	0.096	(0.072-0.129)
Toilet Transferring: To/from/on/off toilet with human assist	-0.294 ^a	0.746	(0.567-0.981)
Toilet Transferring: Able to self-transfer to bedside commode	0.170 ^c	1.186	(0.899-1.564)
Ability to Dress Upper Body: Needs clothing laid out	-0.093 ^c	0.911	(0.768-1.081)
Ability to Dress Upper Body: Needs assistance putting on clothing	-0.416	0.660	(0.549-0.793)
Ability to Dress Upper Body: Entirely dependent upon someone else	-0.636	0.529	(0.400-0.700)
Constant	6.526	682.622	

Number of Risk Factors: 52

Developmental Sample R² = 0.050

Developmental Sample C-statistic = 0.805

Validation Sample R² = 0.051

Validation Sample C-statistic = 0.803

¹ SOC = Start of Care, ROC = Resumption of Care after inpatient stay. Risk factors values are based on SOC/ROC assessment values for the episode of care.

² Most risk factors take on the values 0 and 1; 1 denotes the presence of the attribute and 0 denotes its absence. In virtually all cases, each response option for an OASIS item is a risk factor. In a small number of cases (e.g., number of pressure ulcers at Stage III), the actual number provided in the assessment is used.

³ Because all response option values for an OASIS item are included as risk factors in a model even if only one option value is statistically significant, the following superscripts are used to denote the statistical significance for each risk factor coefficient:

Blank = significant at probability<.01

a = significant at .01<probability<.05

b = significant at .05<probability<.10

c = not significant, probability>.10

Table 36: Stabilization in Toileting Hygiene

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Acute condition: Orthopedic	0.112	1.118	(1.034-1.209)
Chronic Conditions: Chronic patient with caregiver	-0.217	0.805	(0.737-0.879)
Start of Care-Further visits planned	0.213	1.238	(1.125-1.363)
Management of Equipment: Caregiver currently provides	-0.258	0.772	(0.713-0.836)
Grooming: Grooming utensils must be placed within reach	-0.140 ^a	0.869	(0.781-0.968)
Grooming: Assistance needed	-0.233	0.792	(0.695-0.904)
Grooming: Entirely dependent upon someone else	-0.168 ^c	0.845	(0.653-1.093)
Home Care Diagnosis: Mental diseases	-0.150	0.861	(0.787-0.941)
Home Care Diagnosis: Neoplasms	-0.726	0.484	(0.432-0.542)
Home Care Diagnosis: Nervous system diseases	-0.128	0.880	(0.809-0.958)
Home Care Diagnosis: Skin/subcutaneous diseases	-0.302	0.739	(0.663-0.824)
Ability to Dress Lower Body: Needs clothing/shoes laid out	-0.124 ^c	0.883	(0.746-1.045)
Ability to Dress Lower Body: Assist needed putting on clothing	-0.275	0.760	(0.648-0.891)
Ability to Dress Lower Body: Entirely dependent upon someone else	-0.564	0.569	(0.458-0.707)
Age: 18-64	-0.003 ^c	0.997	(0.880-1.130)
Age: 75-84	-0.082 ^b	0.921	(0.838-1.013)
Age: 85 and over	-0.277	0.758	(0.687-0.836)
Ambulation/Locomotion: One-handed device on all surfaces	-0.103 ^c	0.902	(0.756-1.077)
Ambulation/Locomotion: Two-handed device/human assist on steps	-0.188 ^a	0.829	(0.697-0.985)
Ambulation/Locomotion: Walks only with supervision or assist	-0.330	0.719	(0.596-0.867)
Ambulation/Locomotion: Chairfast or bedfast	-1.057	0.348	(0.280-0.431)
Bowel Incontinence Frequency: Less than once a week	-0.288	0.750	(0.650-0.866)
Bowel Incontinence Frequency: One to three times a week	-0.102 ^c	0.903	(0.771-1.059)
Bowel Incontinence Frequency: Four to six times a week or more	-0.197 ^a	0.821	(0.683-0.987)
Confused: In new or complex situations	0.083 ^b	1.086	(0.997-1.184)
Confused: Sometimes	-0.041 ^c	0.960	(0.843-1.093)
Confused: Constantly	-0.314	0.731	(0.587-0.909)
Eating: Requires set up, intermittent assist or modified consistency	-0.169	0.844	(0.781-0.913)
Eating: Unable to feed self and must be assisted throughout meal	-0.510	0.601	(0.483-0.746)
Eating: Requires tube feedings, or no nutrients orally or via tube	-0.302 ^b	0.739	(0.521-1.048)
Difficulty in Speech: Minimal	-0.114	0.892	(0.818-0.973)
Difficulty in Speech: Moderate	-0.169 ^a	0.844	(0.729-0.978)
Difficulty in Speech: Severe to nonresponsive	-0.407	0.666	(0.534-0.829)
Toilet Transferring: To/from/on/off toilet with human assist	-0.328	0.720	(0.654-0.792)
Toilet Transferring: Able to self-transfer to bedside commode	-0.469	0.625	(0.532-0.735)
Toilet Transferring: Unable to transfer to/from toilet or commode	-1.015	0.362	(0.287-0.457)
Transferring: With minimal human assist or with device	-0.210	0.811	(0.720-0.912)
Transferring: Bears weight and pivots only	-0.351	0.704	(0.597-0.830)
Transferring: Unable or bedfast	-0.753	0.471	(0.372-0.596)
Patient Overall Status: Temporary high health risk	0.146	1.157	(1.050-1.274)

Table 36: Stabilization in Toileting Hygiene (continued)

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Patient Overall Status: Fragile health	-0.062 ^c	0.940	(0.845-1.046)
Patient Overall Status: Serious progressive conditions	-0.451	0.637	(0.544-0.745)
Management of Oral Meds: Advance dose prep/chart needed	-0.054 ^c	0.948	(0.848-1.059)
Management of Oral Meds: Reminders needed	-0.169 ^a	0.845	(0.734-0.972)
Management of Oral Meds: Unable	-0.271	0.762	(0.648-0.897)
Conditions Prior to Treatment: Severe memory loss	-0.108 ^a	0.898	(0.807-0.999)
Prior Management of Oral Meds: Needed assistance	-0.133	0.875	(0.811-0.944)
Prior Functioning: Needed assistance with self care	-0.351	0.704	(0.656-0.756)
Frequency of Pain: Pain does not interfere with activity	0.007 ^c	1.007	(0.899-1.128)
Frequency of Pain: Less often than daily	0.132 ^a	1.141	(1.013-1.285)
Frequency of Pain: Daily, but not constant	0.257	1.293	(1.188-1.407)
Frequency of Pain: Constant	0.202	1.223	(1.078-1.388)
Use of Telephone: Able to use specially adapted telephone	-0.186	0.830	(0.734-0.939)
Use of Telephone: Able to answer but difficulty placing calls	-0.133 ^a	0.875	(0.773-0.991)
Use of Telephone: Limited ability to answer or converse	-0.309	0.734	(0.644-0.837)
Use of Telephone: Unable to answer but listens with assistance	-0.505	0.603	(0.503-0.724)
Use of Telephone: Totally unable	-0.549	0.577	(0.478-0.697)
Pressure ulcer assessment indicates risk	-0.361	0.697	(0.643-0.754)
Supervision and Safety Assistance: Uncertain/unlikely to be provided	-0.483	0.617	(0.480-0.794)
Surgical Wound Present	0.576	1.779	(1.495-2.117)
Status of Surgical Wound: Fully granulating	-0.029 ^c	0.971	(0.748-1.261)
Status of Surgical Wound: Early/partial granulation	0.217 ^a	1.243	(1.005-1.537)
Status of Surgical Wound: Not healing	0.358 ^a	1.431	(1.074-1.906)
Therapy Amounts: Low	0.114 ^b	1.120	(0.998-1.257)
Therapy Amounts: Medium	0.274	1.316	(1.205-1.437)
Therapy Amounts: High	0.119 ^a	1.126	(1.015-1.249)
Episode Timing: Early	0.315	1.370	(1.221-1.536)
Toilet Hygiene Assistance: None needed	-3.166	0.042	(0.036-0.049)
Toilet Hygiene Assistance: Needs supplies laid out	-1.626	0.197	(0.173-0.223)
Ability to Dress Upper Body: Needs clothing laid out	-0.143 ^b	0.867	(0.744-1.011)
Ability to Dress Upper Body: Needs assistance putting on clothing	-0.542	0.582	(0.494-0.685)
Ability to Dress Upper Body: Entirely dependent upon someone else	-0.903	0.405	(0.307-0.535)
Constant	7.064	1168.658	

Number of Risk Factors: 43

Developmental Sample R² = 0.065

Developmental Sample C-statistic = 0.809

Validation Sample R² = 0.062

Validation Sample C-statistic = 0.804

Table 36: Stabilization in Toileting Hygiene (continued)

¹ SOC = Start of Care, ROC = Resumption of Care after inpatient stay. Risk factors values are based on SOC/ROC assessment values for the episode of care.

² Most risk factors take on the values 0 and 1; 1 denotes the presence of the attribute and 0 denotes its absence. In virtually all cases, each response option for an OASIS item is a risk factor. In a small number of cases (e.g., number of pressure ulcers at Stage III), the actual number provided in the assessment is used.

³ Because all response option values for an OASIS item are included as risk factors in a model even if only one option value is statistically significant, the following superscripts are used to denote the statistical significance for each risk factor coefficient:

- Blank = significant at probability<.01
- a = significant at .01<probability<.05
- b = significant at .05<probability<.10
- c = not significant, probability>.10

Table 37: Development of Urinary Tract Infection

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Acute condition: Urinary incontinence	0.585	1.794	(1.219-2.640)
Behavioral: Delusions or hallucinations	0.525	1.691	(1.185-2.412)
Start of Care-Further visits planned	-0.244	0.784	(0.676-0.909)
Patient is male	0.585	1.796	(1.597-2.019)
Home Care Diagnosis: Genitourinary system diseases	0.617	1.854	(1.595-2.154)
Urinary incontinence/catheter	1.455	4.284	(2.833-6.477)
Discharged from skilled nursing facility (SNF / TCU) past 14 days	0.215	1.240	(1.090-1.412)
Urinary incontinence/catheter: Incontinent	-1.501	0.223	(0.177-0.280)
Age: 18-64	-0.359	0.698	(0.583-0.837)
Age: 75-84	-0.010 ^c	0.990	(0.867-1.130)
Age: 85 and over	0.022 ^c	1.023	(0.888-1.177)
Ambulation/Locomotion: One-handed device on all surfaces	-0.227 ^a	0.797	(0.639-0.993)
Ambulation/Locomotion: Two-handed device/human assist on steps	-0.068 ^c	0.934	(0.771-1.133)
Ambulation/Locomotion: Walks only with supervision or assist	-0.001 ^c	0.999	(0.813-1.228)
Ambulation/Locomotion: Chairfast or bedfast	0.360	1.433	(1.129-1.820)
Bowel Incontinence Frequency: Less than once a week	0.292	1.339	(1.078-1.663)
Bowel Incontinence Frequency: One to three times a week	-0.081 ^c	0.922	(0.727-1.168)
Bowel Incontinence Frequency: Four to six times a week or more	0.042 ^c	1.042	(0.837-1.298)
Confused: In new or complex situations	-0.084 ^c	0.920	(0.818-1.034)
Confused: Sometimes	0.170 ^a	1.185	(1.005-1.398)
Confused: Constantly	0.233 ^b	1.263	(0.968-1.647)
Patient Overall Status: Temporary high health risk	0.155 ^a	1.168	(1.014-1.346)
Patient Overall Status: Fragile health	0.125 ^c	1.133	(0.961-1.336)
Patient Overall Status: Serious progressive conditions	0.438	1.550	(1.211-1.985)
Conditions Prior to Treatment: Indwelling/suprapubic catheter	0.491 ^a	1.634	(1.075-2.484)
Conditions Prior to Treatment: Urinary incontinence	0.568	1.766	(1.229-2.537)
Pressure ulcer present: Stage II or higher	0.249 ^a	1.283	(1.030-1.598)
Constant	-5.207	0.005	

Number of Risk Factors: 27

Developmental Sample C-statistic = 0.687

Validation Sample C-statistic = 0.679

Developmental Sample Hosmer-Lemeshow = 224.464

Validation Sample Hosmer-Lemeshow = 791.350

¹ SOC = Start of Care, ROC = Resumption of Care after inpatient stay. Risk factors values are based on SOC/ROC assessment values for the episode of care.

² Most risk factors take on the values 0 and 1; 1 denotes the presence of the attribute and 0 denotes its absence. In virtually all cases, each response option for an OASIS item is a risk factor. In a small number of cases (e.g., number of pressure ulcers at Stage III), the actual number provided in the assessment is used.

³ Because all response option values for an OASIS item are included as risk factors in a model even if only one option value is statistically significant, the following superscripts are used to denote the statistical significance for each risk factor coefficient:

Blank = significant at probability<.01

a = significant at .01<probability<.05

b = significant at .05<probability<.10

c = not significant, probability>.10

Table 38: Discharged to Community Needing Toileting Assistance

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Acute condition: Urinary incontinence	0.585	1.794	(1.219-2.640)
Behavioral: Delusions or hallucinations	0.525	1.691	(1.185-2.412)
Start of Care-Further visits planned	-0.244	0.784	(0.676-0.909)
Patient is male	0.585	1.796	(1.597-2.019)
Home Care Diagnosis: Genitourinary system diseases	0.617	1.854	(1.595-2.154)
Urinary incontinence/catheter	1.455	4.284	(2.833-6.477)
Discharged from skilled nursing facility (SNF / TCU) past 14 days	0.215	1.240	(1.090-1.412)
Urinary incontinence/catheter: Incontinent	-1.501	0.223	(0.177-0.280)
Age: 18-64	-0.359	0.698	(0.583-0.837)
Age: 75-84	-0.010 ^c	0.990	(0.867-1.130)
Age: 85 and over	0.022 ^c	1.023	(0.888-1.177)
Ambulation/Locomotion: One-handed device on all surfaces	-0.227 ^a	0.797	(0.639-0.993)
Ambulation/Locomotion: Two-handed device/human assist on steps	-0.068 ^c	0.934	(0.771-1.133)
Ambulation/Locomotion: Walks only with supervision or assist	-0.001 ^c	0.999	(0.813-1.228)
Ambulation/Locomotion: Chairfast or bedfast	0.360	1.433	(1.129-1.820)
Bowel Incontinence Frequency: Less than once a week	0.292	1.339	(1.078-1.663)
Bowel Incontinence Frequency: One to three times a week	-0.081 ^c	0.922	(0.727-1.168)
Bowel Incontinence Frequency: Four to six times a week or more	0.042 ^c	1.042	(0.837-1.298)
Confused: In new or complex situations	-0.084 ^c	0.920	(0.818-1.034)
Confused: Sometimes	0.170 ^a	1.185	(1.005-1.398)
Confused: Constantly	0.233 ^b	1.263	(0.968-1.647)
Patient Overall Status: Temporary high health risk	0.155 ^a	1.168	(1.014-1.346)
Patient Overall Status: Fragile health	0.125 ^c	1.133	(0.961-1.336)
Patient Overall Status: Serious progressive conditions	0.438	1.550	(1.211-1.985)
Conditions Prior to Treatment: Indwelling/suprapubic catheter	0.491 ^a	1.634	(1.075-2.484)
Conditions Prior to Treatment: Urinary incontinence	0.568	1.766	(1.229-2.537)
Pressure ulcer present: Stage II or higher	0.249 ^a	1.283	(1.030-1.598)
Constant	-5.207	0.005	

Number of Risk Factors: 27

Developmental Sample C-statistic = 0.687

Validation Sample C-statistic = 0.679

Developmental Sample Hosmer-Lemeshow = 224.464

Validation Sample Hosmer-Lemeshow = 791.350

¹ SOC = Start of Care, ROC = Resumption of Care after inpatient stay. Risk factors values are based on SOC/ROC assessment values for the episode of care.

² Most risk factors take on the values 0 and 1; 1 denotes the presence of the attribute and 0 denotes its absence. In virtually all cases, each response option for an OASIS item is a risk factor. In a small number of cases (e.g., number of pressure ulcers at Stage III), the actual number provided in the assessment is used.

³ Because all response option values for an OASIS item are included as risk factors in a model even if only one option value is statistically significant, the following superscripts are used to denote the statistical significance for each risk factor coefficient:

- Blank = significant at probability<.01
- a = significant at .01<probability<.05
- b = significant at .05<probability<.10
- c = not significant, probability>.10

Table 39: Discharged to Community Needing Wound Care or Medication Assistance

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Anxiety: Less often than daily	-0.330 ^c	0.719	(0.360-1.437)
Anxiety: Daily, but not constantly	0.204 ^c	1.226	(0.676-2.223)
Anxiety: All of the time	1.087 ^a	2.964	(1.260-6.974)
Frequency of ADL /IADL Assistance: At least daily	-2.113	0.121	(0.049-0.296)
Frequency of ADL /IADL Assistance: Three or more times per week	-0.809 ^c	0.445	(0.146-1.355)
Frequency of ADL/IADL Assistance: One or two times per week	-0.908 ^c	0.403	(0.103-1.574)
Frequency of ADL /IADL Assistance: Received less than weekly	0.172 ^c	1.188	(0.364-3.872)
Home Care Diagnosis: Musculoskeletal system diseases	-0.637 ^a	0.529	(0.297-0.941)
Lives in congregate situation with around the clock assistance	-1.299	0.273	(0.114-0.651)
Frequency of Disruptive Behavior: Once a month or less	0.767 ^c	2.153	(0.809-5.734)
Frequency of Disruptive Behavior: Several times a month	-0.126 ^c	0.882	(0.206-3.775)
Frequency of Disruptive Behavior: Several times a week	-0.368 ^c	0.692	(0.206-2.329)
Frequency of Disruptive Behavior: At least once daily	0.760	2.139	(1.214-3.768)
Confused: In new or complex situations	0.651 ^c	1.918	(0.604-6.097)
Confused: Sometimes	2.365	10.639	(3.382-33.464)
Confused: Constantly	2.676	14.521	(4.149-50.827)
Management of Oral Meds: Advance dose prep/chart needed	-0.305 ^c	0.737	(0.217-2.502)
Management of Oral Meds: Reminders needed	0.807 ^c	2.241	(0.709-7.079)
Management of Oral Meds: Unable	1.382 ^a	3.982	(1.283-12.356)
Assistance with Medical treatments: None needed	-1.540	0.214	(0.118-0.388)
Assistance with Medical treatments: Caregiver provides	-2.677	0.069	(0.025-0.192)
Assistance with Medical treatments: Needs training/support	-1.660	0.190	(0.068-0.533)
Supervision and Safety Assistance: None needed	-1.709 ^a	0.181	(0.045-0.731)
Constant	-6.145	0.002	(0.000-0.000)

Number of Risk Factors: 23

Developmental Sample C-statistic = 0.925

Developmental Sample Hosmer-Lemeshow = 174.805

Validation Sample C-statistic = 0.908

Validation Sample Hosmer-Lemeshow = 904.645

¹ SOC = Start of Care, ROC = Resumption of Care after inpatient stay. Risk factors values are based on SOC/ROC assessment values for the episode of care.

² Most risk factors take on the values 0 and 1; 1 denotes the presence of the attribute and 0 denotes its absence. In virtually all cases, each response option for an OASIS item is a risk factor. In a small number of cases (e.g., number of pressure ulcers at Stage III), the actual number provided in the assessment is used.

³ Because all response option values for an OASIS item are included as risk factors in a model even if only one option value is statistically significant, the following superscripts are used to denote the statistical significance for each risk factor coefficient:

- Blank = significant at probability<.01
- a = significant at .01<probability<.05
- b = significant at .05<probability<.10
- c = not significant, probability>.10

Table 40: Discharged to Community with Unhealed Stage II Pressure Ulcer

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Acute condition: Pulmonary	0.547	1.728	(1.294-2.309)
Acute condition: Open wound/lesion	0.604	1.830	(1.394-2.402)
Chronic Conditions: Impaired ambulation/mobility	0.511	1.667	(1.236-2.250)
Depression screen indicates need for further evaluation	-0.685	0.504	(0.307-0.828)
Home Care Diagnosis: Skin/subcutaneous diseases	1.407	4.082	(2.907-5.734)
IADL Assistance: Caregiver currently provides	-0.513 ^a	0.599	(0.400-0.897)
IADL Assistance: Caregiver training/support needed	-0.832 ^a	0.435	(0.202-0.937)
Behavioral: Impaired decision making	-0.355 ^a	0.701	(0.515-0.954)
Age: 18-64	0.485	1.624	(1.167-2.261)
Age: 75-84	0.149 ^c	1.160	(0.844-1.594)
Age: 85 and over	0.045 ^c	1.046	(0.740-1.479)
Ambulation/Locomotion: One-handed device on all surfaces	0.704 ^b	2.022	(0.967-4.229)
Ambulation/Locomotion: Two-handed device/human assist on steps	0.730 ^a	2.076	(1.028-4.190)
Ambulation/Locomotion: Walks only with supervision or assist	1.188	3.279	(1.596-6.740)
Ambulation/Locomotion: Chairfast or bedfast	1.372	3.944	(1.886-8.245)
Use of Telephone: Able to use specially adapted telephone	0.041 ^c	1.042	(0.658-1.650)
Use of Telephone: Able to answer but difficulty placing calls	0.535	1.708	(1.173-2.488)
Use of Telephone: Limited ability to answer or converse	-0.031 ^c	0.969	(0.597-1.574)
Use of Telephone: Unable to answer but listens with assistance	-0.122 ^c	0.885	(0.518-1.513)
Use of Telephone: Totally unable	0.343 ^c	1.409	(0.877-2.264)
Assistance with Medical treatments: None needed	-0.882	0.414	(0.299-0.572)
Number of Unstageable Pressure Ulcer(s): 1	1.436	4.204	(2.829-6.248)
Number of Unstageable Pressure Ulcer(s): 2	1.866	6.463	(2.966-14.084)
Number of Unstageable Pressure Ulcer(s): 3	0.528	1.696	(0.230-12.510)
Number of Unstageable Pressure Ulcer(s): 4 or more	0.626	1.871	(0.441-7.928)
Number of Stage II Pressure Ulcers(s): 1	1.966	7.145	(5.325-9.586)
Number of Stage II Pressure Ulcers(s): 2	2.076	7.971	(5.286-12.018)
Number of Stage II Pressure Ulcers(s): 3	1.633	5.118	(1.946-13.462)
Number of Stage II Pressure Ulcers(s): 4 or more	1.849	6.353	(2.860-14.111)
Number of Stage III Pressure Ulcers(s): 1	2.148	8.567	(6.004-12.225)
Number of Stage III Pressure Ulcers(s): 2	1.981	7.248	(3.378-15.553)
Number of Stage III Pressure Ulcers(s): 3	2.188	8.921	(1.195-66.589)
Number of Stage III Pressure Ulcers(s): 4 or more	2.010	7.462	(1.263-44.090)
Number of Stage IV Pressure Ulcer(s): 1	2.297	9.940	(5.547-17.811)
Number of Stage IV Pressure Ulcer(s): 2	2.865	17.545	(4.563-67.455)
Number of Stage IV Pressure Ulcer(s): 3	3.002	20.125	(3.230-125.391)
Number of Stage IV Pressure Ulcer(s): 4 or more	0.701	2.015	(0.189-21.479)
Vision: Partially impaired	-0.349	0.705	(0.520-0.958)
Vision: Severely impaired	0.259	1.296	(0.641-2.621)
Constant	-7.386	0.001	

Table 40: Discharged to Community with Unhealed Stage II Pressure Ulcer (continued)

Number of Risk Factors: 39

Developmental Sample C-statistic = 0.948

Validation Sample C-statistic = 0.947

Developmental Sample Hosmer-Lemeshow = 724.693

Validation Sample Hosmer-Lemeshow = 3077.298

¹ SOC = Start of Care, ROC = Resumption of Care after inpatient stay. Risk factors values are based on SOC/ROC assessment values for the episode of care.

² Most risk factors take on the values 0 and 1; 1 denotes the presence of the attribute and 0 denotes its absence. In virtually all cases, each response option for an OASIS item is a risk factor. In a small number of cases (e.g., number of pressure ulcers at Stage III), the actual number provided in the assessment is used.

³ Because all response option values for an OASIS item are included as risk factors in a model even if only one option value is statistically significant, the following superscripts are used to denote the statistical significance for each risk factor coefficient:

Blank = significant at probability < .01

a = significant at .01 < probability < .05

b = significant at .05 < probability < .10

c = not significant, probability > .10

Table 41: Discharged to Community with Behavioral Problems

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Acute condition: Neurologic	0.491 ^a	1.634	(1.089-2.450)
Chronic Conditions: Cognitive/mental/behavioral	0.979	2.662	(1.670-4.245)
Home Care Diagnosis: Mental diseases	0.440 ^a	1.553	(1.089-2.215)
IADL Assistance: Caregiver currently provides	-1.036	0.355	(0.228-0.554)
Lives in congregate situation with around the clock assistance	-1.050 ^a	0.350	(0.144-0.848)
Lives with other person(s) with around the clock assistance	-0.813	0.444	(0.283-0.696)
Meal prep: Unable to plan/prepare light meals	-0.424 ^a	0.655	(0.436-0.983)
Meal prep: Unable to reheat delivered meals	-1.449	0.235	(0.127-0.433)
Frequency of Disruptive Behavior: Once a month or less	0.856 ^a	2.355	(1.132-4.899)
Frequency of Disruptive Behavior: Several times a month	1.323	3.756	(1.964-7.183)
Frequency of Disruptive Behavior: Several times a week	0.771 ^a	2.162	(1.136-4.115)
Frequency of Disruptive Behavior: At least once daily	1.336	3.803	(2.394-6.042)
Confused: In new or complex situations	0.757 ^a	2.132	(1.190-3.821)
Confused: Sometimes	1.459	4.303	(2.257-8.205)
Confused: Constantly	1.938	6.948	(2.807-17.197)
Frequency of Pain: Pain does not interfere with activity	0.774	2.169	(1.294-3.634)
Frequency of Pain: Less often than daily	-0.101 ^c	0.904	(0.476-1.715)
Frequency of Pain: Daily, but not constant	-0.102 ^c	0.903	(0.576-1.416)
Frequency of Pain: Constant	0.210 ^c	1.233	(0.710-2.143)
Use of Telephone: Able to use specially adapted telephone	-0.514 ^c	0.598	(0.292-1.227)
Use of Telephone: Able to answer but difficulty placing calls	0.590 ^a	1.804	(1.117-2.914)
Use of Telephone: Limited ability to answer or converse	0.440	1.553	(0.891-2.705)
Use of Telephone: Unable to answer but listens with assistance	0.389	1.476	(0.541-4.028)
Use of Telephone: Totally unable	-0.352	0.703	(0.197-2.512)
PHQ-2 Loss of Interest: Several days in past 2 weeks	0.350	1.419	(0.938-2.146)
PHQ-2 Loss of Interest: More than half of days in past 2 weeks	0.552	1.737	(0.974-3.098)
PHQ-2 Loss of Interest: Nearly every day in past 2 weeks	0.935	2.548	(1.520-4.269)
Supervision and Safety Assistance: None needed	-1.693	0.184	(0.100-0.337)
Supervision and Safety Assistance: Caregiver currently provides	-1.626	0.197	(0.116-0.334)
Supervision and Safety Assistance: Caregiver training needed	-1.794	0.166	(0.087-0.319)
Constant	-5.965	0.003	

Number of Risk Factors: 30

Developmental Sample C-statistic = 0.935

Developmental Sample Hosmer-Lemeshow = 237.856

Validation Sample C-statistic = 0.89

Validation Sample Hosmer-Lemeshow = 847.419

Table 41: Discharged to Community with Behavioral Problems (continued)

- ¹ SOC = Start of Care, ROC = Resumption of Care after inpatient stay. Risk factors values are based on SOC/ROC assessment values for the episode of care.
- ² Most risk factors take on the values 0 and 1; 1 denotes the presence of the attribute and 0 denotes its absence. In virtually all cases, each response option for an OASIS item is a risk factor. In a small number of cases (e.g., number of pressure ulcers at Stage III), the actual number provided in the assessment is used.
- ³ Because all response option values for an OASIS item are included as risk factors in a model even if only one option value is statistically significant, the following superscripts are used to denote the statistical significance for each risk factor coefficient:
- Blank = significant at probability<.01
 - a = significant at .01<probability<.05
 - b = significant at .05<probability<.10
 - c = not significant, probability>.10

Table 42: Emergent Care for Hypo/Hyperglycemia

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Acute condition: Cardiac/peripheral vascular	-0.150 ^a	0.860	(0.749-0.988)
Acute condition: Diabetes mellitus	1.066	2.905	(2.493-3.385)
Acute condition: Pulmonary	-0.457	0.633	(0.530-0.758)
Acute condition: Neurologic	-0.269 ^a	0.764	(0.622-0.938)
Acute condition: Orthopedic	-0.305	0.737	(0.630-0.864)
Chronic Conditions: Dependence in living skills	-0.207 ^a	0.813	(0.687-0.961)
Start of Care-Further visits planned	-0.270	0.763	(0.650-0.896)
Home Care Diagnosis: Endocrine/nutritional/metabolic	1.322	3.750	(3.068-4.584)
Management of Injectable Medications: None prescribed	-0.645	0.525	(0.401-0.687)
Discharged from inpatient setting within past 14 days	0.307	1.360	(1.113-1.662)
Medication Assistance: None needed	-0.281	0.755	(0.631-0.903)
Age: 18-64	0.300	1.350	(1.129-1.615)
Age: 75-84	0.023 ^c	1.023	(0.857-1.222)
Age: 85 and over	-0.120 ^c	0.887	(0.707-1.113)
Patient Overall Status: Temporary high health risk	0.117 ^c	1.124	(0.875-1.445)
Patient Overall Status: Fragile health	0.302 ^a	1.352	(1.040-1.758)
Patient Overall Status: Serious progressive conditions	0.317 ^b	1.373	(0.975-1.933)
Conditions Prior to Treatment: Impaired decision making	0.378	1.460	(1.246-1.711)
Prior Management of Injectable Meds: Not applicable	-0.389	0.677	(0.521-0.882)
Use of Telephone: Able to use specially adapted telephone	0.068 ^c	1.070	(0.839-1.365)
Use of Telephone: Able to answer but difficulty placing calls	0.310	1.363	(1.093-1.699)
Use of Telephone: Limited ability to answer or converse	0.057 ^c	1.059	(0.795-1.411)
Use of Telephone: Unable to answer but listens with assistance	0.056 ^c	1.057	(0.721-1.551)
Use of Telephone: Totally unable	0.121 ^c	1.128	(0.776-1.640)
PHQ-2 Depression: Several days in past 2 weeks	0.202 ^a	1.224	(1.045-1.434)
PHQ-2 Depression: More than half of days in past 2 weeks	-0.201 ^c	0.818	(0.584-1.144)
PHQ-2 Depression: Nearly every day in past 2 weeks	0.157 ^c	1.169	(0.850-1.609)
Pressure ulcer assessment indicates risk	0.253	1.288	(1.113-1.490)
Risk for Hospitalization: Two or more hospitalizations past year	0.287	1.332	(1.143-1.553)
Status of Surgical Wound (0-3)	-0.199	0.820	(0.749-0.898)
Constant	-6.053	0.002	

Number of Risk Factors: 30

Developmental Sample C-statistic = 0.857

Developmental Sample Hosmer-Lemeshow = 392.176

Validation Sample C-statistic = 0.853

Validation Sample Hosmer-Lemeshow = 1850.632

Table 42: Emergent Care for Hypo/Hyperglycemia (continued)

¹ SOC = Start of Care, ROC = Resumption of Care after inpatient stay. Risk factors values are based on SOC/ROC assessment values for the episode of care.

² Most risk factors take on the values 0 and 1; 1 denotes the presence of the attribute and 0 denotes its absence. In virtually all cases, each response option for an OASIS item is a risk factor. In a small number of cases (e.g., number of pressure ulcers at Stage III), the actual number provided in the assessment is used.

³ Because all response option values for an OASIS item are included as risk factors in a model even if only one option value is statistically significant, the following superscripts are used to denote the statistical significance for each risk factor coefficient:

Blank = significant at probability<.01

a = significant at .01<probability<.05

b = significant at .05<probability<.10

c = not significant, probability>.10

Table 43: Emergent Care for Improper Medication Administration or Medication Side Effects

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Acute condition: Gastrointestinal disorder	-0.376	0.687	(0.522-0.903)
Acute Condition: IV Therapies	0.581	1.788	(1.278-2.502)
Anxiety: Less often than daily	0.175 ^b	1.192	(0.976-1.455)
Anxiety: Daily, but not constantly	0.336	1.399	(1.130-1.732)
Anxiety: All of the time	0.179 ^c	1.196	(0.706-2.027)
Depression screen indicates need for further evaluation	0.342	1.408	(1.110-1.785)
Start of Care-Further visits planned	-0.557	0.573	(0.471-0.697)
Home Care Diagnosis: Neoplasms	-0.387 ^a	0.679	(0.479-0.962)
Discharged from inpatient setting within past 14 days	0.326	1.385	(1.085-1.767)
Medication Assistance: None needed	-0.301	0.740	(0.602-0.909)
Meal prep: Unable to plan/prepare light meals	-0.324	0.723	(0.583-0.897)
Meal prep: Unable to reheat delivered meals	-0.524	0.592	(0.461-0.760)
Drug Regimen Review: Problems found	0.347	1.415	(1.183-1.694)
Bowel Incontinence Frequency: Less than once a week	0.476	1.610	(1.165-2.227)
Bowel Incontinence Frequency: One to three times a week	0.131 ^c	1.140	(0.787-1.652)
Bowel Incontinence Frequency: Four to six times a week or more	0.278 ^c	1.321	(0.921-1.894)
Eating: Requires set up, intermittent assist or modified consistency	-0.051 ^c	0.950	(0.788-1.147)
Eating: Unable to feed self and must be assisted throughout meal	-0.408 ^c	0.665	(0.390-1.134)
Eating: Requires tube feedings, or no nutrients orally or via tube	-1.420 ^a	0.242	(0.059-0.982)
Conditions Prior to Treatment: Intractable pain	0.451	1.570	(1.284-1.921)
Conditions Prior to Treatment: Severe memory loss	0.337	1.400	(1.101-1.780)
Payment Source: All Medicare	-0.486	0.615	(0.471-0.803)
Risk Factors: Alcohol dependency	-0.869	0.419	(0.221-0.795)
Risk Factors: Drug dependency	0.831	2.295	(1.521-3.464)
Risk for Hospitalization: Two or more hospitalizations past year	0.262	1.299	(1.083-1.558)
Risk for Hospitalization: Recent mental/emotional decline	0.423	1.526	(1.237-1.883)
Vision: Partially impaired	-0.354	0.702	(0.564-0.874)
Vision: Severely impaired	-0.187 ^c	0.829	(0.426-1.614)
Constant	-5.242	0.005	

Number of Risk Factors: 28

Developmental Sample C-statistic = 0.684

Developmental Sample Hosmer-Lemeshow = 91.707

Validation Sample C-statistic = 0.656

Validation Sample Hosmer-Lemeshow = 325.385

¹ SOC = Start of Care, ROC = Resumption of Care after inpatient stay. Risk factors values are based on SOC/ROC assessment values for the episode of care.

² Most risk factors take on the values 0 and 1; 1 denotes the presence of the attribute and 0 denotes its absence. In virtually all cases, each response option for an OASIS item is a risk factor. In a small number of cases (e.g., number of pressure ulcers at Stage III), the actual number provided in the assessment is used.

³ Because all response option values for an OASIS item are included as risk factors in a model even if only one option value is statistically significant, the following superscripts are used to denote the statistical significance for each risk factor coefficient:

Blank = significant at probability<.01

a = significant at .01<probability<.05

b = significant at .05<probability<.10

c = not significant, probability>.10

Table 44: Emergent Care for Injury Caused by Fall

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Acute condition: Gastrointestinal disorder	-0.162 ^a	0.851	(0.743-0.974)
Chronic Conditions: Urinary incontinence or catheter	0.205	1.227	(1.127-1.336)
Chronic Conditions: Dependence in medication administration	0.236	1.266	(1.146-1.398)
Chronic Conditions: Dependence in personal care	0.188	1.206	(1.097-1.326)
Home Care Diagnosis: Fractures	0.261	1.298	(1.129-1.491)
Home Care Diagnosis: Other injury	0.325	1.385	(1.173-1.634)
Home Care Diagnosis: Mental diseases	0.176	1.192	(1.077-1.319)
Home Care Diagnosis: Nervous system diseases	0.124 ^a	1.132	(1.027-1.247)
Home Care Diagnosis: Skin/subcutaneous diseases	0.204	1.226	(1.069-1.406)
Hearing: Mildly to moderately impaired	0.010 ^c	1.010	(0.927-1.102)
Hearing: Severely impaired	0.324 ^a	1.382	(1.069-1.787)
Lives with other person(s) with around the clock assistance	-0.313	0.732	(0.672-0.796)
Lives with other person(s) with regular daytime assistance	-0.443	0.642	(0.467-0.883)
Lives with other person(s) with regular nighttime assistance	-0.407	0.666	(0.527-0.841)
Lives with other person(s) with occasional/short term assistance	-0.303 ^a	0.739	(0.556-0.981)
Age: 18-64	-0.057 ^c	0.945	(0.811-1.100)
Age: 75-84	0.140 ^a	1.150	(1.026-1.289)
Age: 85 and over	0.241	1.273	(1.129-1.435)
Ambulation/Locomotion: One-handed device on all surfaces	0.208 ^c	1.232	(0.959-1.582)
Ambulation/Locomotion: Two-handed device/human assist on steps	0.667	1.949	(1.544-2.460)
Ambulation/Locomotion: Walks only with supervision or assist	0.690	1.995	(1.554-2.560)
Ambulation/Locomotion: Chairfast or bedfast	0.421	1.524	(1.143-2.032)
Bowel Incontinence Frequency: Less than once a week	0.181 ^a	1.198	(1.026-1.400)
Bowel Incontinence Frequency: One to three times a week	0.083 ^c	1.087	(0.924-1.279)
Bowel Incontinence Frequency: Four to six times a week or more	-0.110 ^c	0.896	(0.735-1.091)
Confused: In new or complex situations	0.174	1.190	(1.082-1.310)
Confused: Sometimes	0.215	1.240	(1.087-1.414)
Confused: Constantly	0.361	1.435	(1.126-1.829)
Eating: Requires set up, intermittent assist or modified consistency	-0.132	0.876	(0.801-0.958)
Eating: Unable to feed self and must be assisted throughout meal	-0.376	0.687	(0.531-0.888)
Eating: Requires tube feedings, or no nutrients orally or via tube	-0.292 ^c	0.747	(0.457-1.221)
Toilet Transferring: To/from/on/off toilet with human assist	-0.097 ^b	0.908	(0.820-1.005)
Toilet Transferring: Able to self-transfer to bedside commode	-0.260	0.771	(0.650-0.915)
Toilet Transferring: Unable to transfer to/from toilet or commode	-0.389	0.678	(0.535-0.860)
Patient Overall Status: Temporary high health risk	0.066 ^c	1.068	(0.944-1.208)
Patient Overall Status: Fragile health	0.206	1.229	(1.076-1.404)
Patient Overall Status: Serious progressive conditions	0.146 ^c	1.157	(0.944-1.417)
PHQ-2 Depression: Several days in past 2 weeks	0.230	1.259	(1.142-1.387)
PHQ-2 Depression: More than half of days in past 2 weeks	0.300	1.350	(1.133-1.608)
PHQ-2 Depression: Nearly every day in past 2 weeks	0.339	1.404	(1.166-1.690)

Table 44: Emergent Care for Injury Caused by Fall (continued)

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Assistance with Medical treatments: Needs training/support	-0.183 ^a	0.833	(0.704-0.985)
Risk for Hospitalization: Two or more hospitalizations past year	0.156	1.168	(1.074-1.271)
Risk for Hospitalization: History of falls	0.615	1.849	(1.700-2.011)
Status of Surgical Wound: Fully granulating	-0.050 ^c	0.951	(0.766-1.181)
Status of Surgical Wound: Early/partial granulation	-0.574	0.564	(0.468-0.679)
Status of Surgical Wound: Not healing	-0.420	0.657	(0.499-0.865)
Status of Stasis Ulcer: Fully granulating	-0.327 ^c	0.721	(0.177-2.930)
Status of Stasis Ulcer: Early/partial granulation	0.035 ^c	1.036	(0.642-1.672)
Status of Stasis Ulcer: Not healing	0.553	1.738	(1.270-2.379)
Therapy Amounts: Low	0.085 ^c	1.089	(0.946-1.253)
Therapy Amounts: Medium	-0.003 ^c	0.997	(0.898-1.108)
Therapy Amounts: High	0.208	1.232	(1.099-1.380)
Constant	-5.576	0.004	

Number of Risk Factors: 52

Developmental Sample C-statistic = 0.710

Developmental Sample Hosmer-Lemeshow = 265.885

Validation Sample C-statistic = 0.707

Validation Sample Hosmer-Lemeshow = 1032.659

¹ SOC = Start of Care, ROC = Resumption of Care after inpatient stay. Risk factors values are based on SOC/ROC assessment values for the episode of care.

² Most risk factors take on the values 0 and 1; 1 denotes the presence of the attribute and 0 denotes its absence. In virtually all cases, each response option for an OASIS item is a risk factor. In a small number of cases (e.g., number of pressure ulcers at Stage III), the actual number provided in the assessment is used.

³ Because all response option values for an OASIS item are included as risk factors in a model even if only one option value is statistically significant, the following superscripts are used to denote the statistical significance for each risk factor coefficient:

Blank = significant at probability < .01

a = significant at .01 < probability < .05

b = significant at .05 < probability < .10

c = not significant, probability > .10

Table 45: Emergent Care for Wound Infection, Deteriorating Wound Status

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Acute condition: Cardiac/peripheral vascular	-0.185	0.831	(0.740-0.934)
Acute condition: Contagious/communicable disease	0.227 ^a	1.254	(1.026-1.534)
Acute condition: Diabetes mellitus	0.400	1.492	(1.305-1.705)
Acute condition: Pulmonary	-0.590	0.554	(0.463-0.663)
Acute condition: Orthopedic	-0.242	0.785	(0.690-0.894)
Acute condition: Open wound/lesion	0.284	1.328	(1.151-1.533)
Bathing: With the use of devices in shower/tub	-0.207 ^c	0.813	(0.608-1.088)
Bathing: With intermittent assistance in shower/tub	-0.044 ^c	0.957	(0.738-1.241)
Bathing: Participates with supervision in shower/tub	0.063 ^c	1.065	(0.822-1.379)
Bathing: Independent at sink, in chair, or on commode	0.250 ^b	1.284	(0.981-1.679)
Bathing: Participates with assist at sink, in chair, or commode	0.236 ^b	1.266	(0.970-1.651)
Bathing: Unable to participate; bathed totally by another	0.425	1.530	(1.129-2.075)
Start of Care-Further visits planned	-0.378	0.685	(0.604-0.777)
Home Care Diagnosis: Iatrogenic conditions	0.480	1.616	(1.370-1.905)
Home Care Diagnosis: Other injury	0.395	1.484	(1.228-1.794)
Home Care Diagnosis: Skin/subcutaneous diseases	0.837	2.309	(2.016-2.644)
Medication Assistance: Caregiver training/support needed	-0.335	0.716	(0.574-0.892)
Age: 18-64	0.442	1.555	(1.360-1.778)
Age: 75-84	-0.134 ^b	0.874	(0.757-1.010)
Age: 85 and over	-0.199 ^a	0.819	(0.690-0.973)
Management of Oral Meds: Advance dose prep/chart needed	-0.239	0.787	(0.691-0.898)
Management of Oral Meds: Reminders needed	-0.313	0.731	(0.609-0.878)
Management of Oral Meds: Unable	-0.444	0.641	(0.539-0.764)
Frequency of Pain: Pain does not interfere with activity	0.228 ^a	1.255	(1.020-1.546)
Frequency of Pain: Less often than daily	-0.058 ^c	0.944	(0.746-1.195)
Frequency of Pain: Daily, but not constant	0.345	1.412	(1.215-1.642)
Frequency of Pain: Constant	0.426	1.532	(1.274-1.842)
Assistance with Medical treatments: None needed	-1.043	0.352	(0.297-0.419)
Assistance with Medical treatments: Caregiver provides	-0.195	0.823	(0.720-0.940)
Assistance with Medical treatments: Uncertain/unlikely	0.185 ^a	1.204	(1.018-1.422)
Pressure ulcer assessment indicates risk	0.226	1.254	(1.109-1.417)
Pressure Ulcer: Stage III or IV	0.579	1.785	(1.465-2.173)
Pressure Ulcer: Unstageable ulcer(s) present	0.437	1.549	(1.227-1.955)
Risk for Hospitalization: Two or more hospitalizations past year	0.402	1.494	(1.334-1.673)
Status of Surgical Wound (0-3)	0.339	1.404	(1.335-1.476)
Status of Stasis Ulcer (0-3)	0.319	1.375	(1.280-1.478)
Therapy Amounts: Low	-0.152 ^b	0.859	(0.716-1.030)
Therapy Amounts: Medium	-0.178	0.837	(0.732-0.956)
Therapy Amounts: High	-0.249	0.779	(0.655-0.927)
Skin Lesion or Open Wound	0.380	1.463	(1.312-1.631)

Table 45: Emergent Care for Wound Infection, Deteriorating Wound Status (continued)

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Constant	-4.983	0.007	

Number of Risk Factors: 40

Developmental Sample C-statistic = 0.867

Validation Sample C-statistic = 0.850

Developmental Sample Hosmer-Lemeshow = 1210.119

Validation Sample Hosmer-Lemeshow = 4570.608

¹ SOC = Start of Care, ROC = Resumption of Care after inpatient stay. Risk factors values are based on SOC/ROC assessment values for the episode of care.

² Most risk factors take on the values 0 and 1; 1 denotes the presence of the attribute and 0 denotes its absence. In virtually all cases, each response option for an OASIS item is a risk factor. In a small number of cases (e.g., number of pressure ulcers at Stage III), the actual number provided in the assessment is used.

³ Because all response option values for an OASIS item are included as risk factors in a model even if only one option value is statistically significant, the following superscripts are used to denote the statistical significance for each risk factor coefficient:

- Blank = significant at probability<.01
- a = significant at .01<probability<.05
- b = significant at .05<probability<.10
- c = not significant, probability>.10

Table 46: Increase in Pressure Ulcers

Submodel 1: No Pressure Ulcers Present at SOC/ROC

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Acute condition: Open wound/lesion	0.793	2.210	(1.631-2.994)
Bathing: With the use of devices in shower/tub	0.189 ^c	1.208	(0.537-2.717)
Bathing: With intermittent assistance in shower/tub	0.136 ^c	1.146	(0.518-2.533)
Bathing: Participates with supervision in shower/tub	0.346 ^c	1.413	(0.637-3.133)
Bathing: Independent at sink, in chair, or on commode	0.474 ^c	1.607	(0.712-3.628)
Bathing: Participates with assist at sink, in chair, or commode	0.373 ^c	1.452	(0.640-3.296)
Bathing: Unable to participate; bathed totally by another	0.924 ^a	2.520	(1.071-5.925)
Start of Care-Further visits planned	-0.575	0.563	(0.445-0.711)
Management of Equipment: None needed	-0.283	0.754	(0.610-0.931)
Home Care Diagnosis: Neoplasms	0.437	1.548	(1.120-2.141)
Home Care Diagnosis: Skin/subcutaneous diseases	1.172	3.228	(2.457-4.242)
Receiving intravenous or infusion therapy	0.602	1.826	(1.217-2.740)
Ambulation/Locomotion: One-handed device on all surfaces	0.458 ^c	1.581	(0.807-3.098)
Ambulation/Locomotion: Two-handed device/human assist on steps	0.575 ^b	1.778	(0.939-3.366)
Ambulation/Locomotion: Walks only with supervision or assist	0.735 ^a	2.086	(1.071-4.064)
Ambulation/Locomotion: Chairfast or bedfast	1.346	3.842	(1.942-7.602)
Patient Overall Status: Temporary high health risk	-0.143 ^c	0.866	(0.628-1.195)
Patient Overall Status: Fragile health	0.173 ^c	1.188	(0.853-1.655)
Patient Overall Status: Serious progressive conditions	0.721	2.057	(1.377-3.075)
Conditions Prior to Treatment: Indwelling/suprapubic catheter	0.811	2.251	(1.548-3.273)
Pressure ulcer assessment indicates risk	0.886	2.426	(1.901-3.095)
Risk Factors: Smoking	0.379	1.461	(1.112-1.919)
Status of Stasis Ulcer: Fully granulating	1.566	4.789	(1.465-15.656)
Status of Stasis Ulcer: Early/partial granulation	0.576 ^b	1.778	(0.932-3.394)
Status of Stasis Ulcer: Not healing	0.205 ^c	1.227	(0.686-2.195)
Ability to Dress Upper Body: Needs clothing laid out	-0.549	0.577	(0.396-0.841)
Ability to Dress Upper Body: Needs assistance putting on clothing	0.193 ^c	1.212	(0.834-1.763)
Ability to Dress Upper Body: Entirely dependent upon someone else	0.274 ^c	1.316	(0.812-2.131)
Constant	-7.006	0.001	

Number of Risk Elements: 28

Table 46: Increase in Pressure Ulcers (continued)

Submodel 2: Unstageable or Stage II Pressure Ulcers present

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Prior Management of Injectable Meds: Needed assistance	-1.233	0.291	(0.130-0.652)
Prior Management of Oral Meds: Needed assistance	1.402	4.063	(1.597-10.338)
Vision: Partially impaired	0.199 ^c	1.220	(0.435-3.420)
Vision: Severely impaired	1.807 ^a	6.092	(1.454-25.518)
Constant	-4.114	0.016	

Number of Risk Factors: 4

Submodel 3: Stage III or IV Pressure Ulcers Present

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Home Care Diagnosis: Blood diseases	1.979	7.234	(1.830-28.597)
Home Care Diagnosis: Circulatory system diseases	-1.040	0.353	(0.179-0.697)
Meal prep: Unable to plan/prepare light meals	-0.716 ^c	0.489	(0.187-1.280)
Meal prep: Unable to reheat delivered meals	-1.555	0.211	(0.076-0.587)
Difficulty in Speech: Minimal	-1.244	0.288	(0.117-0.713)
Difficulty in Speech: Moderate	0.073 ^c	1.076	(0.409-2.829)
Difficulty in Speech: Severe to nonresponsive	0.765 ^c	2.149	(0.732-6.312)
Toilet Transferring: To/from/on/off toilet with human assist	0.605 ^c	1.831	(0.602-5.568)
Toilet Transferring: Able to self-transfer to bedside commode	2.450	11.587	(3.694-36.350)
Toilet Transferring: Unable to transfer to/from toilet or commode	2.169	8.752	(3.025-25.320)
Frequency of Pain: Pain does not interfere with activity	0.846 ^c	2.331	(0.765-7.102)
Frequency of Pain: Less often than daily	0.383 ^c	1.467	(0.423-5.088)
Frequency of Pain: Daily, but not constant	0.482 ^c	1.620	(0.717-3.661)
Frequency of Pain: Constant	1.088 ^a	2.969	(1.180-7.470)
PHQ-2 Depression: Several days in past 2 weeks	-0.068 ^c	0.935	(0.327-2.670)
PHQ-2 Depression: More than half of days in past 2 weeks	0.842 ^c	2.322	(0.241-22.393)
PHQ-2 Depression: Nearly every day in past 2 weeks	-3.089 ^a	0.046	(0.003-0.744)
PHQ-2 Loss of Interest: Several days in past 2 weeks	1.264 ^a	3.538	(1.252-10.000)
PHQ-2 Loss of Interest: More than half of days in past 2 weeks	-0.054 ^c	0.947	(0.081-11.081)
PHQ-2 Loss of Interest: Nearly every day in past 2 weeks	1.944 ^b	6.985	(0.834-58.520)
Constant	-3.464	0.031	

Number of Risk Factors: 20Number of Unique Risk Factors Across All Models Components: 52

Overall model developmental sample C-statistic = 0.871

Overall model validation sample C-statistic = 0.840

Overall model development sample Hosmer-Lemeshow = 55.030

Overall model validation sample Hosmer-Lemeshow = 418.676

Table 46: Increase in Pressure Ulcers (continued)

¹ SOC = Start of Care, ROC = Resumption of Care after inpatient stay. Risk factors values are based on SOC/ROC assessment values for the episode of care.

² Most risk factors take on the values 0 and 1; 1 denotes the presence of the attribute and 0 denotes its absence. In virtually all cases, each response option for an OASIS item is a risk factor. In a small number of cases (e.g., number of pressure ulcers at Stage III), the actual number provided in the assessment is used.

³ Because all response option values for an OASIS item are included as risk factors in a model even if only one option value is statistically significant, the following superscripts are used to denote the statistical significance for each risk factor coefficient:

Blank = significant at probability < .01

a = significant at .01 < probability < .05

b = significant at .05 < probability < .10

c = not significant, probability > .10

Table 47: Substantial Decline in 3 or more ADLs

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Acute condition: Diabetes mellitus	-0.397	0.672	(0.500-0.903)
Acute condition: Pulmonary	0.192 ^a	1.212	(1.006-1.460)
Acute condition: Orthopedic	-0.335	0.715	(0.587-0.872)
Bathing: With the use of devices in shower/tub	-0.562 ^a	0.570	(0.368-0.883)
Bathing: With intermittent assistance in shower/tub	-0.946	0.388	(0.252-0.599)
Bathing: Participates with supervision in shower/tub	-0.997	0.369	(0.236-0.577)
Bathing: Independent at sink, in chair, or on commode	-1.136	0.321	(0.190-0.542)
Bathing: Participates with assist at sink, in chair, or commode	-1.476	0.229	(0.138-0.378)
Bathing: Unable to participate; bathed totally by another	-1.506	0.222	(0.126-0.391)
Chronic Conditions: Urinary incontinence or catheter	0.221 ^a	1.247	(1.045-1.488)
Chronic Conditions: Dependence in medication administration	0.340	1.405	(1.108-1.783)
Management of Equipment: None needed	-0.209 ^a	0.811	(0.679-0.969)
Grooming: Grooming utensils must be placed within reach	-0.415	0.660	(0.486-0.896)
Grooming: Assistance needed	-0.648	0.523	(0.368-0.743)
Grooming: Entirely dependent upon someone else	-0.508 ^b	0.602	(0.360-1.006)
Home Care Diagnosis: Circulatory system diseases	-0.359	0.698	(0.589-0.828)
Home Care Diagnosis: Neoplasms	1.255	3.508	(2.869-4.289)
Lives alone with occasional/short term assistance	-0.941	0.390	(0.219-0.696)
Medication Assistance: Caregiver currently provides	0.382	1.465	(1.168-1.837)
Meal prep: Unable to plan/prepare light meals	0.235 ^c	1.264	(0.919-1.739)
Meal prep: Unable to reheat delivered meals	0.687	1.987	(1.409-2.802)
Eating: Requires set up, intermittent assist or modified consistency	-0.229	0.795	(0.648-0.976)
Eating: Unable to feed self and must be assisted throughout meal	0.105	1.111	(0.757-1.629)
Eating: Requires tube feedings, or no nutrients orally or via tube	-0.751	0.472	(0.237-0.942)
Toilet Transferring: To/from/on/off toilet with human assist	0.286	1.331	(1.011-1.750)
Toilet Transferring: Able to self-transfer to bedside commode	0.431	1.538	(1.076-2.199)
Toilet Transferring: Unable to transfer to/from toilet or commode	-1.112	0.329	(0.181-0.597)
Patient Overall Status: Temporary high health risk	-0.232	0.793	(0.590-1.066)
Patient Overall Status: Fragile health	0.471	1.601	(1.199-2.138)
Patient Overall Status: Serious progressive conditions	1.145	3.142	(2.261-4.366)
Use of Telephone: Able to use specially adapted telephone	0.302	1.353	(0.984-1.860)
Use of Telephone: Able to answer but difficulty placing calls	0.280	1.323	(0.989-1.770)
Use of Telephone: Limited ability to answer or converse	0.498	1.645	(1.242-2.179)
Use of Telephone: Unable to answer but listens with assistance	0.829	2.291	(1.635-3.210)
Use of Telephone: Totally unable	0.658	1.931	(1.344-2.776)
Pressure Ulcer: Stage II ulcer(s) present	0.609	1.838	(1.339-2.524)
Pressure Ulcer: Stage III ulcer(s) present	0.240	1.272	(0.594-2.721)
Pressure Ulcer: Stage IV ulcer(s) present	0.676	1.965	(0.713-5.415)
Status of Surgical Wound: Fully granulating	-0.356	0.700	(0.430-1.141)
Status of Surgical Wound: Early/partial granulation	-1.005	0.366	(0.237-0.565)

Table 47: Substantial Decline in 3 or more ADLs (continued)

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Status of Surgical Wound: Not healing	-1.432	0.239	(0.106-0.537)
Toilet Hygiene Assistance: Needs supplies laid out	-0.366	0.694	(0.520-0.925)
Toilet Hygiene Assistance: Needs assistance	-0.448	0.639	(0.461-0.886)
Toilet Hygiene Assistance: Entirely dependent	-0.047	0.954	(0.604-1.506)
Ability to Dress Upper Body: Needs clothing laid out	0.271	1.312	(0.912-1.888)
Ability to Dress Upper Body: Needs assistance putting on clothing	0.923	2.517	(1.689-3.750)
Ability to Dress Upper Body: Entirely dependent upon someone else	1.307	3.694	(2.138-6.384)
Constant	-6.017	0.002	

Number of Risk Factors: 47

Developmental Sample C-statistic = 0.828

Validation Sample C-statistic = 0.798

Developmental Sample Hosmer-Lemeshow = 483.499

Validation Sample Hosmer-Lemeshow = 1619.902

¹ SOC = Start of Care, ROC = Resumption of Care after inpatient stay. Risk factors values are based on SOC/ROC assessment values for the episode of care.

² Most risk factors take on the values 0 and 1; 1 denotes the presence of the attribute and 0 denotes its absence. In virtually all cases, each response option for an OASIS item is a risk factor. In a small number of cases (e.g., number of pressure ulcers at Stage III), the actual number provided in the assessment is used.

³ Because all response option values for an OASIS item are included as risk factors in a model even if only one option value is statistically significant, the following superscripts are used to denote the statistical significance for each risk factor coefficient:

- Blank = significant at probability<.01
- a = significant at .01<probability<.05
- b = significant at .05<probability<.10
- c = not significant, probability>.10

Table 48: Substantial Decline in Management of Oral Medications

Risk Factor Measured at SOC/ROC^{1,2}	Coefficient³	Odds ratio³	(95% CI)
Acute condition: Neurologic	0.543	1.721	(1.194-2.481)
Anxiety: Less often than daily	-0.333 ^b	0.717	(0.511-1.007)
Anxiety: Daily, but not constantly	-0.577 ^a	0.561	(0.361-0.873)
Anxiety: All of the time	-0.415 ^c	0.660	(0.217-2.013)
Home Care Diagnosis: Neoplasms	0.982	2.670	(1.818-3.922)
Meal prep: Unable to plan/prepare light meals	0.416 ^a	1.515	(1.074-2.138)
Meal prep: Unable to reheat delivered meals	0.913	2.492	(1.659-3.742)
Age: 18-64	0.036 ^c	1.037	(0.651-1.651)
Age: 75-84	0.350 ^b	1.419	(0.952-2.116)
Age: 85 and over	1.112	3.042	(2.054-4.503)
Ambulation/Locomotion: One-handed device on all surfaces	-0.066 ^c	0.937	(0.555-1.580)
Ambulation/Locomotion: Two-handed device/human assist on steps	0.252 ^c	1.286	(0.805-2.055)
Ambulation/Locomotion: Walks only with supervision or assist	-0.027 ^c	0.973	(0.546-1.734)
Ambulation/Locomotion: Chairfast or bedfast	0.671 ^a	1.956	(1.019-3.755)
Cognitive Functioning: Requires prompting under stress	0.281 ^c	1.325	(0.879-1.998)
Cognitive Functioning: Requires assist in special circumstances	0.915 ^a	2.497	(1.224-5.093)
Cognitive Function: Requires considerable assist/totally dependent	1.469 ^b	4.346	(0.808-23.362)
Confused: In new or complex situations	0.385 ^a	1.469	(1.027-2.103)
Confused: Sometimes	1.215	3.369	(1.741-6.519)
Confused: Constantly	-0.168 ^c	0.845	(0.094-7.642)
Difficulty in Speech: Minimal	0.069 ^c	1.071	(0.731-1.571)
Difficulty in Speech: Moderate	0.910 ^a	2.484	(1.209-5.102)
Difficulty in Speech: Severe to nonresponsive	0.289 ^c	1.335	(0.364-4.898)
Patient Overall Status: Temporary high health risk	-0.267 ^c	0.766	(0.544-1.079)
Patient Overall Status: Fragile health	0.312 ^c	1.366	(0.925-2.018)
Patient Overall Status: Serious progressive conditions	1.546	4.691	(2.811-7.827)
Prior Management of Oral Meds: Needed assistance	1.07	2.916	(2.228-3.817)
Use of Telephone: Able to use specially adapted telephone	-0.055 ^c	0.946	(0.511-1.754)
Use of Telephone: Able to answer but difficulty placing calls	0.515 ^c	1.674	(0.863-3.247)
Use of Telephone: Limited ability to answer or converse	0.219 ^c	1.244	(0.533-2.906)
Use of Telephone: Unable to answer but listens with assistance	1.595	4.928	(1.718-14.137)
Use of Telephone: Totally unable	0.802 ^c	2.231	(0.709-7.018)
Risk for Hospitalization: Taking five or more medications	-0.346 ^a	0.707	(0.532-0.941)
Surgical Wound Present	-1.141	0.319	(0.218-0.468)
Ability to Dress Upper Body: Needs clothing laid out	-0.264 ^c	0.768	(0.542-1.088)
Ability to Dress Upper Body: Needs assistance putting on clothing	0.440 ^a	1.553	(1.065-2.264)
Ability to Dress Upper Body: Entirely dependent upon someone else	1.065	2.901	(1.330-6.325)
Constant	-6.364	0.002	

Table 48: Substantial Decline in Management of Oral Medications (continued)

Number of Risk Factors: 37

Developmental Sample C-statistic = 0.837

Developmental Sample Hosmer-Lemeshow = 0.837

Validation Sample C-statistic = 0.820

Validation Sample Hosmer-Lemeshow = 784.360

¹ SOC = Start of Care, ROC = Resumption of Care after inpatient stay. Risk factors values are based on SOC/ROC assessment values for the episode of care.

² Most risk factors take on the values 0 and 1; 1 denotes the presence of the attribute and 0 denotes its absence. In virtually all cases, each response option for an OASIS item is a risk factor. In a small number of cases (e.g., number of pressure ulcers at Stage III), the actual number provided in the assessment is used.

³ Because all response option values for an OASIS item are included as risk factors in a model even if only one option value is statistically significant, the following superscripts are used to denote the statistical significance for each risk factor coefficient:

Blank = significant at probability < .01

a = significant at .01 < probability < .05

b = significant at .05 < probability < .10

c = not significant, probability > .10

Appendix: Risk Factors to OASIS Item Crosswalk

Risk Factor Measured at SOC/ROC	OASIS Item	Response No.
Acute condition: Cardiac/peripheral vascular	M1010, M1016	see specs for ACUTE_CARDIO
Acute condition: Contagious/communicable disease	M1010, M1016	see specs for ACUTE_CONTAGIOUS
Acute condition: Diabetes mellitus	M1010, M1016	see specs for ACUTE_DIABETES
Acute condition: Enteral/parenteral nutrition	M1010, M1016	see specs for ACUTE_ENT_PAR_NUTRI
Acute condition: Gastrointestinal disorder	M1010, M1016	see specs for ACUTE_GI
Acute condition: Urinary incontinence	M1010, M1016	see specs for ACUTE_INCONT
Acute Condition: IV Therapies	M1010, M1016	see specs for ACUTE_IV
Acute condition: Pulmonary	M1010, M1016	see specs for ACUTE_LUNG
Acute condition: Neurologic	M1010, M1016	see specs for ACUTE_NEURO
Acute condition: Oxygen therapy	M1010, M1016	see specs for ACUTE_O2
Acute condition: Orthopedic	M1010, M1016	see specs for ACUTE_ORTHOPEDIC
Acute Condition: Mental/Emotional	M1010, M1016	see specs for ACUTE_PSYCH
Acute condition: Open wound/lesion	M1010, M1016	see specs for ACUTE_WOUND
ADL Assistance: Caregiver provides	M2100a	response 1
ADL Assistance: Uncertain/unlikely to be provided	M2100a	response 3 or 4
ADL Assistance: Caregiver training/support needed	M2100a	response 2
ADL Assistance: None needed	M2100a	response 0
Advocacy Assistance: None Needed	M2100g	response 0
Advocacy Assistance: Uncertain/unlikely to be provided	M2100a	response 6
Advocacy Assistance: Caregiver training/support needed	M2100g	response 2
Behavioral: Physical aggression to self/others	M1740	response 4
Anxiety: None of the time	M1720	response 0
Anxiety: Less often than daily	M1720	response 1
Anxiety: Daily, but not constantly	M1720	response 2
Anxiety: All of the time	M1720	response 3
Bathing: Independently in shower/tub	M1830	response 0
Bathing: With the use of devices in shower/tub	M1830	response 1
Bathing: With intermittent assistance in shower/tub	M1830	response 2
Bathing: Participates with supervision in shower/tub	M1830	response 3
Bathing: Independent at sink, in chair, or on commode	M1830	response 4
Bathing: Participates with assist at sink, in chair, or commode	M1830	response 5
Bathing: Unable to participate; bathed totally by another	M1830	response 6

Risk Factor Measured at SOC/ROC	OASIS Item	Response No.
Frequency of Disruptive Behavior: Several times each month	M1745	response 3
Frequency of Disruptive Behavior: Several times a week	M1745	response 4
Bowel Incontinence Frequency: 1-3 times a week	M1620	response 2
Bowel Incontinence Frequency: 4-6 times a week or more	M1620	response 3
Bowel Incontinence Frequency: On a daily basis	M1620	response 4
Bowel Incontinence Frequency: More often than once daily	M1620	response 5
Frequency of ADL /IADL Assistance: At least daily	M2110	response 1
Frequency of ADL /IADL Assistance: Three or more times per week	M2110	response 2
Frequency of ADL/IADL Assistance: One or two times per week	M2110	response 3
Frequency of ADL /IADL Assistance: Received less than weekly	M2110	response 4
Chronic Conditions: Chronic patient with caregiver	M1100 and others	see specs for CHRONIC_ANY_W_CG
Chronic Conditions: Urinary incontinence or catheter	M1610, M1018, M1000, M1016	see specs for CHRONIC_INCONT_CATH
Chronic Conditions: Dependence in living skills	M1000, M1016, M1880, M1890, M1900	see specs for CHRONIC_LIV_SKILL
Chronic Conditions: Dependence in medication administration	M1000, M1016, M2020, M2030, M2040,	see specs for CHRONIC_MED_ADMIN
Chronic Conditions: Cognitive/mental/behavioral	M1000, M1016, M1018, M1740	see specs for CHRONIC_MENT_BEHAV
Chronic Conditions: Impaired ambulation/mobility	M1000, M1016, M1840, M1860, M1900	see specs for CHRONIC_MOBILITY
Chronic Conditions: Chronic Pain	M1000, M1016, M1242, M1018	see specs for CHRONIC_PAIN
Chronic Conditions: Dependence in personal care	M1000, M1016, M1800-M1845, M1900	see specs for CHRONIC_PERS_CARE
Cognitive Functioning: Alert and focused	M1700	response 0
Cognitive Functioning: Requires prompting under stress	M1700	response 1
Cognitive Functioning: Requires assist in special circumstances	M1700	response 2
Confusion: In new or complex situations only	M1710	response 1
Confusion: On awakening or at night only	M1710	response 2
Confusion: During the day and evening, but not constantly	M1710	response 3
Behavioral: Delusions or hallucinations	M1740	response 6
Depression screen indicates need for further evaluation	M1730	see specs for DEPRESSION
Dyspnea: Moderate exertion	M1400	response 2
Dyspnea: Minimal exertion	M1400	response 3
Dyspnea: At rest	M1400	response 4
Eating: Unable to feed self and must be assisted throughout meal	M1870	response 2
Eating: Receives nutrients orally and through tube	M1870	response 3

Risk Factor Measured at SOC/ROC	OASIS Item	Response No.
Eating: Only receives nutrients through tube	M1870	response 4
Eating: Receives nutrients orally and through tube	M1870	response 3
Eating: Only receives nutrients through tube	M1870	response 4
Eating: Unable to take nutrients orally or by tube	M1870	response 5
Start of Care-Further visits planned	M0100	response 1
Management of Equipment: None needed	M2100e	response 0
Management of Equipment: Caregiver currently provides	M2100e	response 1
Assessment indicates risk for falls	M1910	response 2
Patient is male	M0069	response 1
Grooming: Able to groom self unaided	M1800	response 0
Grooming: Grooming utensils must be placed within reach	M1800	response 1
Grooming: Assistance needed	M1800	response 2
Grooming: Entirely dependent upon someone else	M1800	response 3
Home Care Diagnosis: Blood diseases	M1020, M1022, M1024	see specs for HC_DX_BLOOD
Home Care Diagnosis: Circulatory system diseases	M1020, M1022, M1024	see specs for HC_DX_CIRCULATORY
Home Care Diagnosis: Intracranial injury	M1020, M1022, M1024	see specs for HC_DX_CRANIAL
Home Care Diagnosis: Digestive system diseases	M1020, M1022, M1024	see specs for HC_DX_DIGESTIVE
Home Care Diagnosis: Endocrine/nutritional/metabolic	M1020, M1022, M1024	see specs for HC_DX_ENDOCRINE
Home Care Diagnosis: Fractures	M1020, M1022, M1024	see specs for HC_DX_FRACTURE
Home Care Diagnosis: Genitourinary system diseases	M1020, M1022, M1024	see specs for HC_DX_GEN_URINARY
Home Care Diagnosis: Iatrogenic conditions	M1020, M1022, M1024	see specs for HC_DX_IATROGENIC
Home Care Diagnosis: Ill-defined conditions	M1020, M1022, M1024	see specs for HC_DX_ILL_DEFINED
Home Care Diagnosis: Other injury	M1020, M1022, M1024	see specs for HC_DX_INJURY_OTH
Home Care Diagnosis: Mental diseases	M1020, M1022, M1024	see specs for HC_DX_MENTAL
Home Care Diagnosis: Musculoskeletal system diseases	M1020, M1022, M1024	see specs for HC_DX_MUSCL_SKEL
Home Care Diagnosis: Neoplasms	M1020, M1022, M1024	see specs for HC_DX_NEOPLASM
Home Care Diagnosis: Nervous system diseases	M1020, M1022, M1024	see specs for HC_DX_NERVOUS
Home Care Diagnosis: Respiratory system diseases	M1020, M1022, M1024	see specs for HC_DX_RESPIRATORY
Home Care Diagnosis: Skin/subcutaneous diseases	M1020, M1022, M1024	see specs for HC_DX_SKIN

Risk Factor Measured at SOC/ROC	OASIS Item	Response No.
Hearing: Mildly to moderately impaired	M1210	response 1
Hearing: Severely impaired	M1210	response 2
IADL Assistance: None needed	M2100b	response 0
IADL Assistance: Caregiver currently provides	M2100b	response 1
IADL Assistance: Caregiver training/support needed	M2100b	response 5
Behavioral: Impaired decision making	M1740	response 2
Behavioral: Disruptive/inappropriate behavior	M1740	response 5
Urinary incontinence or catheter required	M1610	response 1 or 2
Urinary Incontinence: Night only	M1615	response 2
Urinary Incontinence: Day only	M1615	response 3
Urinary Incontinence: Day and night	M1615	response 4
Management of Injectable Medications: None prescribed	M2030	response 0
Discharged from inpatient setting within past 14 days	M1000	response other than NA
Discharged from long-term nursing facility (NF) past 14 days	M1000	response 1
Discharged from long-term care hospital (LTCH) past 14 days	M1000	response 4
Discharged from psychiatric hospital/unit past 14 days	M1000	response 6
Discharged from inpatient rehab hospital/unit (IRF) past 14 days	M1000	response 5
Discharged from skilled nursing facility (SNF / TCU) past 14 days	M1000	response 2
Discharged from Short-stay acute hospital (IPP S) past 14 days	M1000	response 3
Receiving intravenous or infusion therapy	M1030	response 1
Receiving parenteral nutrition	M1030	response 2
Ability to Dress Lower Body: Needs clothing/shoes laid out	M1820	response 1
Ability to Dress Lower Body: Assist needed putting on clothing	M1820	response 2
Ability to Dress Lower Body: Entirely dependent upon someone else	M1820	response 3
Lives alone with round the clock assistance	M1100	response 1
Lives in congregate situation with around the clock assistance	M1100	response 11
Lives in congregate situation with regular daytime assistance	M1100	response 12
Lives in congregate situation with regular nighttime assistance	M1100	response 13
Lives in congregate situation-occasional/short term assistance	M1100	response 14
Lives alone with regular daytime assistance	M1100	response 2
Lives alone with occasional/short term assistance	M1100	response 4
Lives alone with no assistance	M1100	response 5
Lives with other person(s) with around the clock assistance	M1100	response 6
Lives with other person(s) with regular daytime assistance	M1100	response 7
Lives with other person(s) with regular nighttime assistance	M1100	response 8
Lives with other person(s) with occasional/short term assistance	M1100	response 9
Urinary incontinence/catheter: Incontinent	M1610	response 1
Urinary incontinence/catheter: Catheter	M1610	response 2

Risk Factor Measured at SOC/ROC	OASIS Item	Response No.
Medication Assistance: None needed	M2100c	response 0
Medication Assistance: Caregiver currently provides	M2100c	response 1
Medication Assistance: Uncertain/unlikely to be provided	M2100c	response 3 or 4
Medication Assistance: Caregiver training/support needed	M2100c	response 2
Meal prep: Independently able to plan/prepare light meals	M1880	response 0
Meal prep: Unable to plan/prepare light meals	M1880	response 1
Meal prep: Unable to reheat delivered meals	M1880	response 2
Drug Regimen Review: Problems found	M2000	response 2
Change in medical or treatment regimen in past 14 days	M1016	not blank
Behavioral: Memory deficit	M1740	response 1
Age: 18-64	M0066	calculated age = 18-64
Age: 75-84	M0066	calculated age = 75-84
Age: 85 and over	M0066	calculated age = 85+
Ambulation/Locomotion: One-handed device on all surfaces	M1860	response 1
Ambulation/Locomotion: Two-handed device/human assist on steps	M1860	response 2
Ambulation/Locomotion: Walks only with supervision or assist	M1860	response 3
Ambulation/Locomotion: Chairfast or bedfast	M1860	response 4 or 5
Frequency of Disruptive Behavior: Once a month or less	M1745	response 1 or 2
Frequency of Disruptive Behavior: Several times a month	M1745	response 3
Frequency of Disruptive Behavior: Several times a week	M1745	response 4
Frequency of Disruptive Behavior: At least once daily	M1745	response 5
Bowel Incontinence Frequency: Less than once a week	M1620	response 1
Bowel Incontinence Frequency: One to three times a week	M1620	response 2
Bowel Incontinence Frequency: Four to six times a week or more	M1620	response 3, 4 or 5
Cognitive Functioning: Requires prompting under stress	M1700	response 1
Cognitive Functioning: Requires assist in special circumstances	M1700	response 2
Cognitive Function: Requires considerable assist/totally dependent	M1700	response 3 or 4
Confused: In new or complex situations	M1710	response 1
Confused: Sometimes	M1710	response 2 or 3
Confused: Constantly	M1710	response 4
Dyspnea: Walking more than 20 feet, climbing stairs	M1400	response 1
Dyspnea: Moderate exertion	M1400	response 2
Dyspnea: Minimal to no exertion	M1400	response 3 or 4
Eating: Requires set up, intermittent assist or modified consistency	M1870	response 1
Eating: Unable to feed self and must be assisted throughout meal	M1870	response 2
Eating: Requires tube feedings, or no nutrients orally or via tube	M1870	response 3 or 4 or 5
Urinary Incontinence: Occasional stress incontinence	M1615	response 1

Risk Factor Measured at SOC/ROC	OASIS Item	Response No.
Urinary Incontinence: Day or night	M1615	response 2 or 3
Urinary Incontinence: Day and night	M1615	response 4
Difficulty in Speech: Minimal	M1230	response 1
Difficulty in Speech: Moderate	M1230	response 2
Difficulty in Speech: Severe to nonresponsive	M1230	response 3 or 4 or 5
Toilet Transferring: To/from/on/off toilet with human assist	M1840	response 1
Toilet Transferring: Able to self-transfer to bedside commode	M1840	response 2
Toilet Transferring: Unable to transfer to/from toilet or commode	M1840	response 3 or 4
Transferring: With minimal human assist or with device	M1850	response 1
Transferring: Bears weight and pivots only	M1850	response 2
Transferring: Unable or bedfast	M1850	response 3 or 4 or 5
Patient Overall Status: Temporary high health risk	M1034	response 1
Patient Overall Status: Fragile health	M1034	response 2
Patient Overall Status: Serious progressive conditions	M1034	response 3
Management of Oral Meds: Independent	M2020	response 0
Management of Oral Meds: Advance dose prep/chart needed	M2020	response 1
Management of Oral Meds: Reminders needed	M2020	response 2
Management of Oral Meds: Unable	M2020	response 3
Respiratory Treatments: Oxygen	M1410	response 1
Prior Functioning: Needed assistance with ambulation	M1900b	response 1 or 2
Conditions Prior to Treatment: Indwelling/suprapubic catheter	M1018	response 2
Conditions Prior to Treatment: Disruptive behavior	M1018	response 5
Prior Functioning: Needed assistance with household tasks	M1900d	response 1 or 2
Conditions Prior to Treatment: Impaired decision making	M1018	response 4
Prior Management of Injectable Meds: Not applicable	M2040b	response na
Prior Management of Injectable Meds: Needed assistance	M1018 M2040b	response 1 or 2
Conditions Prior to Treatment: Intractable pain	M1018	response 3
Conditions Prior to Treatment: Severe memory loss	M1018	response 6
Conditions Prior to Treatment: None of listed conditions	M1018	response 7
Prior Management of Oral Meds: Needed assistance	M2040a	response 1 or 2
Prior Functioning: Needed assistance with self care	M1900a	response 1 or 2
Prior Functioning: Needed assistance with transfer	M1900c	response 1 or 2
Conditions Prior to Treatment: Urinary incontinence	M1018	response 1
Frequency of Pain: Pain does not interfere with activity	M1242	response 1
Frequency of Pain: Less often than daily	M1242	response 2
Frequency of Pain: Daily, but not constant	M1242	response 3
Frequency of Pain: Constant	M1242	response 4
Payment Source: Medicare, Medicaid, or Private HMO	M0150	response 2, 4, or 9
Payment Source: All Medicaid	M0150	response 3 or 4

Risk Factor Measured at SOC/ROC	OASIS Item	Response No.
Payment Source: All Medicare	M0150	response 1 or 2
Payment Source: Medicare HMO	M0150	response 2
Payment Source: Any other	M0150	response 5,6,7,8,10,11
Use of Telephone: Able to make and answer calls	M1890	response 0
Use of Telephone: Able to use specially adapted telephone	M1890	response 1
Use of Telephone: Able to answer but difficulty placing calls	M1890	response 2
Use of Telephone: Limited ability to answer or converse	M1890	response 3
Use of Telephone: Unable to answer but listens with assistance	M1890	response 4
Use of Telephone: Totally unable	M1890	response 5
PHQ-2 Depression: Several days in past 2 weeks	M1730_1b	response 1
PHQ-2 Depression: More than half of days in past 2 weeks	M1730_1b	response 2
PHQ-2 Depression: Nearly every day in past 2 weeks	M1730_1b	response 3
PHQ-2 Loss of Interest: Several days in past 2 weeks	M1730_1a	response 1
PHQ-2 Loss of Interest: More than half of days in past 2 weeks	M1730_1a	response 2
PHQ-2 Loss of Interest: Nearly every day in past 2 weeks	M1730_1a	response 3
Assistance with Medical treatments: None needed	M2100d	response 0
Assistance with Medical treatments: Caregiver provides	M2100d	response 1
Assistance with Medical treatments: Uncertain/unlikely	M2100d	response 3 or 4
Assistance with Medical treatments: Needs training/support	M2100d	response 2
Pressure ulcer present: Stage II or higher	M1306	response 1
Pressure ulcer assessment indicates risk	M1300	response 1 or 2
Pressure Ulcer: Stage III or IV	M1308b or c	response > 0
Pressure Ulcer: None present	M1306, M1322	M1306 response 0 AND M1322 response 0
Pressure Ulcer: Unstageable ulcer(s) present	M1308d1, d2 and d3	M1308d1 response 0 AND M1308d2 response 0 AND M1308d3 response 0
Pressure Ulcer: Stage II ulcer(s) present	M1308a	response > 0
Pressure Ulcer: Stage III ulcer(s) present	M1308b	response > 0
Pressure Ulcer: Stage IV ulcer(s) present	M1308c	response > 0
Pressure Ulcer Present: Total Number Stage II or higher	M1308a through d3	response = total number
Number of Unstageable Pressure Ulcer(s): 1	M1308d1	response = 1
Number of Unstageable Pressure Ulcer(s): 2	M1308d2	response = 2
Number of Unstageable Pressure Ulcer(s): 3	M1308d3	response = 3
Number of Unstageable Pressure Ulcer(s): 4 or more	M1308d1, d2 and d3	response = 4 or >
Number of Stage II Pressure Ulcers(s): 1	M1308a	response = 1
Number of Stage II Pressure Ulcers(s): 2	M1308a	response = 2
Number of Stage II Pressure Ulcers(s): 3	M1308a	response = 3

Risk Factor Measured at SOC/ROC	OASIS Item	Response No.
Number of Stage II Pressure Ulcers(s): 4 or more	M1308a	response = 4 or >
Number of Stage III Pressure Ulcers(s): 1	M1308b	response = 1
Number of Stage III Pressure Ulcers(s): 2	M1308b	response = 2
Number of Stage III Pressure Ulcers(s): 3	M1308b	response = 3
Number of Stage III Pressure Ulcers(s): 4 or more	M1308b	response = 4 or >
Number of Stage IV Pressure Ulcer(s): 1	M1308c	response = 1
Number of Stage IV Pressure Ulcer(s): 2	M1308c	response = 2
Number of Stage IV Pressure Ulcer(s): 3	M1308c	response = 3
Number of Stage IV Pressure Ulcer(s): 4 or more	M1308c	response = 4 or >
Risk for Hospitalization: Taking five or more medications	M1032	response 4
Risk Factors: Alcohol dependency	M1036	response 3
Risk Factors: Drug dependency	M1036	response 4
Risk for Hospitalization: Presence of frailty indicators	M1032	response 5
Risk for Hospitalization: History of falls	M1032	response 3
Risk for Hospitalization: Two or more hospitalizations past year	M1032	response 2
Risk Factors: None of the listed factors	M1036	response 6
Risk Factors: Obesity	M1036	response 2
Risk for Hospitalization: Other unlisted risk factors	M1032	response 6
Risk for Hospitalization: Recent mental/emotional decline	M1032	response 1
Risk Factors: Smoking	M1036	response 1
Difficulty in Speech: No observable impairment	M1230	response 0
Difficulty in Speech: Minimal	M1230	response 1
Difficulty in Speech: Moderate	M1230	response 2
Difficulty in Speech: Severe difficulty	M1230	response 3
Difficulty in Speech: Unable to express basic needs	M1230	response 4
Supervision and Safety Assistance: None needed	M2100f	response 0
Supervision and Safety Assistance: Caregiver currently provides	M2100f	response 1
Supervision and Safety Assistance: Uncertain/unlikely to be provided	M2100f	response 2
Supervision and Safety Assistance: Caregiver training needed	M2100f	response 3
Surgical Wound Present	M1340	response 1 or 2
Status of Surgical Wound (0-3)	M1342	value
Status of Surgical Wound: Fully granulating	M1342	response 1
Status of Surgical Wound: Early/partial granulation	M1342	response 2
Status of Surgical Wound: Not healing	M1342	response 3
Stasis Ulcer Present	M1330	response 1 or 2 or 3
Status of Stasis Ulcer (0-3)	M1334	value
Status of Stasis Ulcer: Fully granulating	M1334	response 1
Status of Stasis Ulcer: Early/partial granulation	M1334	response 2
Status of Stasis Ulcer: Not healing	M1334	response 3

Risk Factor Measured at SOC/ROC	OASIS Item	Response No.
Number of therapy visits: 1-2	M2200	response = 1 or 2
Number of therapy visits: 11-12	M2200	response = 11 or 12
Number of therapy visits: 13-14	M2200	response = 13 or 14
Number of therapy visits: 15-16	M2200	response = 15 or 16
Number of therapy visits: 17-18	M2200	response = 17 or 18
Number of therapy visits: 19 +	M2200	response = 19 or more
Number of therapy visits: 3-4	M2200	response = 3 or 4
Number of therapy visits: 5-6	M2200	response = 5 or 6
Number of therapy visits: 7-8	M2200	response = 7 or 8
Number of therapy visits: 9-10	M2200	response = 9 or 10
Therapy Amounts: High	M2200	response > 13
Therapy Amounts: Low	M2200	response < 5
Therapy Amounts: Medium	M2200	response 5-13
Episode Timing: Early	M0110	response 1
Episode Timing: Later	M0110	response 2
Toilet Hygiene Assistance: None needed	M1845	response 0
Toilet Hygiene Assistance: Needs supplies laid out	M1845	response 1
Toilet Hygiene Assistance: Needs assistance	M1845	response 2
Toilet Hygiene Assistance: Entirely dependent	M1845	response 3
Toilet Transferring: To/from/on/off toilet independently	M1840	response 0
Toilet Transferring: To/from/on/off toilet with human assist	M1840	response 1
Toilet Transferring: Able to self-transfer to bedside commode	M1840	response 2
Toilet Transferring: Able to use bedpan/urinal independently	M1840	response 3
Toilet Transferring: Entirely dependent	M1840	response 4
Transferring: Independent	M1850	response 0
Transferring: With minimal human assistance or with device	M1850	response 1
Transferring: Bears weight and pivots only	M1850	response 2
Transferring: Unable to bear weight	M1850	response 3
Transferring: Bedfast, but able to reposition in bed	M1850	response 4
Transferring: Bedfast	M1850	response 5
Ability to Dress Upper Body: Needs clothing laid out	M1810	response 1
Ability to Dress Upper Body: Needs assistance putting on clothing	M1810	response 2
Ability to Dress Upper Body: Entirely dependent upon someone else	M1810	response 3
Behavioral: Verbally disruptive/inappropriate	M1740	response 3
Verbal Understanding: Most of the time	M1220	response 1
Verbal Understanding: Sometimes	M1220	response 2
Verbal Understanding: Rarely or never	M1220	response 3
Vision: Partially impaired	M1200	response 1
Vision: Severely impaired	M1200	response 2
Skin Lesion or Open Wound	M1350	response 1