

APPENDIX A:
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APPENDIX A

NURSING CARE HOUR REQUIREMENTS CHARTS

NHC requirements charts are used to determine the total NCHs required for one 24 hour period. Appendix A contains the NCH charts that correspond to the seven types of nursing units and six acuity categories.

- * Medical/Surgical Unit Nursing Care Hour Requirements.
- * Intensive Care Unit Nursing Care Hour Requirements.
- * Neonatal Intensive Care Unit Nursing Care Hour Requirements.
- * Obstetrics (Ante/Postpartum) Unit Nursing Care Hour Requirements.
- * Newborn Nursery Unit Nursing Care Hour Requirements.
- * Pediatric Unit Nursing Care Hour Requirements.
- * Psychiatric Unit Nursing Care Hour Requirements.

Each clinical area has unique amounts of direct care hours per acuity category and unique amounts of indirect care hours. The unit specific charts (Fig. A-1) delineate the NCHs per patient type and acuity classification. The NCH charts (Fig A-2...A8) depict the total Nursing Care Hour requirements for aggregate numbers of patients through the seven basic patient types and the six acuity categories. These charts are particularly important when calculating the WMSN requirements manually. Appendix A is also beneficial when planning manpower requirements and for costing out new health care initiatives.

Once the NCHs are determined from the charts, the NCHs are converted into the recommended number and mix of nursing personnel, using the daily personnel requirements charts in Appendix B.

NURSING CARE HOURS CALCULATIONS:

*** The WMSN calculates NCHs on both a direct care and indirect care component. (This was discussed in earlier sections.) Both components are factored into the nursing care hour calculations.**

1. Each acuity point = 7.5 minutes of direct nursing care time. (Remember that there is an indirect care time component that must also be factored into the nursing care time formulas.
2. The following acuity point ranges were established for each patient CAT. The midpoint values for each category are important because the computer calculates the category based on the midpoint category point.

CAT	Range	Midpoint
1	0-12	7
2	13-31	22
3	32-63	48
4	64-95	80
5	96-145	121
6	146-262	204

3. **Computing the Direct Care Hours (DCH) across all Acuity Categories (AC):** Take the midpoint value of the point range for each acuity category and multiply it by 7.5 minutes and divide it by 60 minutes to obtain the per hour time.

CAT	7.5	X	AC pts	/60 min	=	DCHs
1	(7.5 min)	(7 AC pts)	/60 min	=	0.88h	
2	(7.5 min)	(22 AC pts)	/60 min	=	2.75h	
3	(7.5 min)	(48 AC pts)	/60 min	=	6.00h	
4	(7.5 min)	(80 AC pts)	/60 min	=	10.00h	
5	(7.5 min)	(121 AC pts)	/60 min	=	15.13h	
6	(7.5 min)	(204 AC pts)	/60 min	=	25.50h	

4. The following percentages of direct and indirect Nursing care time are applied to each type of patient classification.

Unit Type	% Direct Care	% Indirect Care
Medical/Surgical	23.9	76.1
ICU/CCU/NICU	33.8	66.2
OB/GYN	22.2	77.8
Newborn	37.0	63.0
Pediatrics	27.3	72.7
Psychiatric	31.1	68.9

5. The coefficients for determining the NCHs per patient category and acuity classification are developed by multiplying the direct NCHs by the percentage of indirect NCHs. **Thus:**
Total NCHs = (1 + % of indirect care hrs) X (direct care hrs)

Total Nursing Care Hours (NCH) Calculations (Fig A-1)

Total NCHs = (1 + % of indirect care hrs) X (direct care hrs)

Unit	CAT	1. %	x	DCHs	=	NCHs
Medical/Surgical	1	(1.761)		(0.88)	=	1.54
	2	(1.761)		(2.75)	=	4.84
	3	(1.761)		(6.00)	=	10.57
	4	(1.761)		(10.00)	=	17.61
	5	(1.761)		(15.13)	=	26.64
	6	(1.761)		(25.50)	=	44.91
ICU/CCU/NICU	1	(1.662)		(0.88)	=	1.45
	2	(1.662)		(2.75)	=	4.57
	3	(1.662)		(6.00)	=	9.97
	4	(1.662)		(10.00)	=	16.62
	5	(1.662)		(15.13)	=	25.14
	6	(1.662)		(25.50)	=	42.38
Obstetrics	1	(1.778)		(0.88)	=	1.56
	2	(1.778)		(2.75)	=	4.89
	3	(1.778)		(6.00)	=	10.67
	4	(1.778)		(10.00)	=	17.78
	5	(1.778)		(15.13)	=	26.89
	6	(1.778)		(25.50)	=	45.34
Newborn	1	(1.630)		(0.88)	=	1.43
	2	(1.630)		(2.75)	=	4.48
	3	(1.630)		(6.00)	=	9.78
	4	(1.630)		(10.00)	=	16.30
	5	(1.630)		(15.13)	=	24.65
	6	(1.530)		(25.50)	=	41.57
Pediatrics	1	(1.727)		(0.88)	=	1.51
	2	(1.727)		(2.75)	=	4.75
	3	(1.727)		(6.00)	=	10.36
	4	(1.727)		(10.00)	=	17.27
	5	(1.727)		(15.13)	=	26.12
	6	(1.727)		(25.50)	=	44.04
Psychiatric	1	(1.689)		(0.88)	=	1.48
	2	(1.689)		(2.75)	=	4.64
	3	(1.689)		(6.00)	=	10.13
	4	(1.689)		(10.00)	=	16.89
	5	(1.689)		(15.13)	=	25.55
	6	(1.689)		(25.50)	=	43.07

MEDICAL/SURGICAL NURSING CARE HOUR REQUIRMENTS (Fig. A-2)

Patients	Category I	Category II	Category III	Category IV	Category V	Category VI
1	2	5	11	18	27	45
2	3	0	21	35	53	90
3	5	15	32	53	80	135
4	6	19	42	70	107	180
5	8	24	53	88	133	225
6	9	29	63	106	160	269
7	11	34	74	123	186	314
8	12	39	85	141	213	359
9	14	44	95	158	240	404
10	15	48	106	176	266	449
11	17	53	116	194	293	494
12	19	58	127	211	320	539
13	20	63	137	229	346	584
14	22	68	148	247	373	629
15	23	73	158	264	399	674
16	25	77	169	282	426	718
17	26	82	180	299	453	763
18	28	87	190	317	479	808
19	29	92	201	335	506	53
20	31	97	211	352	533	898
21	33	102	222	370	559	943
22	34	107	232	387	586	988
23	36	111	243	405	612	1033
24	37	116	254	423	639	1078
25	39	121	264	440	666	1123
26	40	126	275	458	692	1168
27	42	131	285	475	719	1212
28	43	136	296	493	746	1257
29	45	140	306	511	772	1302
30	46	145	317	528	799	1347

INTENSIVE CARE UNIT NURSING CARE HOUR REQUIREMENTS (Fig. A-3)

Patients	Category I	Category II	Category III	Category IV	Category V	Category VI
1	1	5	10	17	25	42
2	3	9	20	33	50	85
3	4	14	30	50	75	127
4	6	18	40	66	101	170
5	7	23	50	83	126	212
6	9	27	60	100	151	254
7	10	32	70	116	176	297
8	12	37	80	133	201	339
9	13	41	90	150	226	381
10	15	46	100	166	251	424
11	16	50	110	183	276	466
12	18	55	120	199	302	509
13	19	59	130	216	327	551
14	20	64	140	233	352	593
15	22	69	150	249	377	636
16	23	73	160	266	402	678
17	25	78	170	283	427	720
18	26	82	179	299	452	763
19	28	87	189	316	477	805
20	29	91	199	332	503	848
21	31	96	209	349	528	890
22	32	101	219	366	553	932
23	34	105	229	382	578	975
24	35	110	239	399	603	1017
25	37	114	249	416	628	1060
26	38	119	259	432	653	1102
27	39	123	269	449	678	1144
28	41	128	279	465	704	1187
29	42	133	289	482	729	1229
30	44	137	299	499	754	1271

**NEONATAL INTENSIVE CARE NURSING CARE
HOUR REQUIREMENTS (Fig. A-4)**

Patients	Category I	Category II	Category III	Category IV	Category V	Category VI
1	1	5	10	17	25	42
2	3	9	20	33	50	85
3	4	14	30	50	75	127
4	6	18	40	66	101	170
5	7	23	50	83	126	212
6	9	27	60	100	151	254
7	10	32	70	116	176	297
8	12	37	80	133	201	339
9	13	41	90	150	226	381
10	15	46	100	166	251	424
11	16	50	110	183	276	466
12	18	55	120	199	302	509
13	19	59	130	216	327	551
14	20	64	140	233	352	593
15	22	69	150	249	377	636
16	23	73	160	266	402	678
17	25	78	170	283	427	720
18	26	82	179	299	452	763
19	28	87	189	316	477	805
20	29	91	199	332	503	848
21	31	96	209	349	528	890
22	32	101	219	366	553	932
23	34	105	229	382	578	975
24	35	110	239	399	603	1017
25	37	114	249	416	628	1060
26	38	119	259	432	653	1102
27	39	123	269	449	678	1144
28	41	128	279	465	704	1187
29	42	133	289	482	729	1229
30	44	137	299	499	754	1271

**OBSTETRICS (ANTEPARTUM/POSTPARTUM)
NURSING CARE HOUR REQUIREMENTS (Fig. A-5)**

Patients	Category I	Category II	Category III	Category IV	Category V	Category VI
1	2	5	11	18	27	45
2	3	10	21	36	54	91
3	5	15	32	53	81	136
4	6	20	43	71	108	181
5	8	24	53	89	134	227
6	9	29	64	107	161	272
7	11	34	75	124	188	317
8	13	39	85	142	215	363
9	14	44	96	160	242	408
10	16	49	107	178	269	453
11	17	54	117	196	296	499
12	19	59	128	213	323	544
13	20	64	139	231	349	589
14	22	68	149	249	376	635
15	23	73	160	267	403	680
16	25	78	171	284	430	725
17	27	83	181	302	457	771
18	28	88	192	320	484	816
19	30	93	203	338	511	861
20	31	98	213	356	538	907
21	33	103	224	373	565	952
22	34	108	235	391	591	997
23	36	112	245	409	618	1043
24	38	117	256	427	645	1088
25	39	122	267	445	672	1133
26	41	127	277	462	699	1179
27	42	132	288	480	726	1224
28	44	137	299	498	753	1269
29	45	142	309	516	780	1315
30	47	147	320	533	807	1360

NEWBORN NURSERY NURSING CARE HOUR REQUIREMENTS (Fig. A-6)

Patients	Category I	Category II	Category III	Category IV	Category V	Category VI
1	1	4	10	16	25	42
2	3	9	20	33	49	83
3	4	13	29	49	74	125
4	6	18	39	65	99	166
5	7	22	49	82	123	208
6	9	27	59	98	148	249
7	10	31	68	114	173	291
8	11	36	78	130	197	333
9	13	40	88	147	222	374
10	14	45	98	163	246	416
11	16	49	108	179	271	457
12	17	54	117	196	296	499
13	19	58	127	212	320	540
14	20	63	137	228	345	582
15	22	67	147	245	370	623
16	23	72	156	261	394	665
17	24	76	166	277	419	707
18	26	81	176	293	444	748
19	27	85	186	310	468	790
20	29	90	196	326	493	831
21	30	94	205	342	518	873
22	32	99	215	359	542	914
23	33	103	225	375	567	956
24	34	108	235	391	591	998
25	36	112	245	408	616	1039
26	37	117	254	424	641	1081
27	39	121	264	440	665	1122
28	40	126	274	456	690	1164
29	42	130	284	473	715	1205
30	43	134	293	489	739	1247

PEDIATRIC NUSING CARE HOUR REQUIREMENTS (Fig. A-7)

Patients	Category I	Category II	Category III	Category IV	Category V	Category VI
1	2	5	10	17	26	44
2	3	9	21	35	52	88
3	5	14	31	52	78	132
4	6	19	41	69	104	176
5	8	24	52	86	131	220
6	9	28	62	104	157	264
7	11	33	73	121	183	308
8	12	38	83	138	209	352
9	14	43	93	155	235	396
10	15	47	104	173	261	440
11	17	52	114	190	287	484
12	18	57	124	207	313	528
13	20	62	135	225	339	573
14	21	66	145	242	366	617
15	23	71	155	259	392	661
16	24	76	166	276	418	705
17	26	81	176	294	444	749
18	27	85	187	311	470	793
19	29	90	197	328	496	837
20	30	95	207	345	522	881
21	32	100	218	363	548	925
22	33	104	228	380	574	969
23	35	109	238	397	601	1013
24	36	114	249	414	627	1057
25	38	119	259	432	653	1101
26	40	123	269	449	679	1145
27	41	128	280	466	705	1189
28	43	133	290	484	731	1233
29	44	138	300	501	757	1277
30	46	142	311	518	783	1321

PSYCHIATRIC NUSING CARE HOUR REQUIREMENTS (Fig. A-8)

Patients	Category I	Category II	Category III	Category IV	Category V	Category VI
1	1	5	10	17	26	43
2	3	9	20	34	51	86
3	4	14	30	51	77	129
4	6	19	41	68	102	172
5	7	23	51	84	128	215
6	9	28	61	101	153	258
7	10	33	71	118	179	301
8	12	37	81	135	204	345
9	13	42	91	152	230	388
10	15	46	101	169	255	431
11	16	51	111	186	281	474
12	18	56	122	203	306	517
13	19	60	132	220	332	560
14	21	65	142	236	358	603
15	22	70	152	253	383	646
16	24	74	162	270	409	689
17	25	79	172	287	434	732
18	27	84	182	304	460	775
19	28	88	193	321	485	818
20	30	93	203	338	511	861
21	31	98	213	355	536	904
22	33	102	223	372	562	948
23	34	107	233	388	587	991
24	36	111	243	405	613	1034
25	37	116	253	422	638	1077
26	39	121	263	439	664	1120
27	40	125	274	456	690	1163
28	42	130	284	473	715	1206
29	43	135	294	490	741	1249
30	45	139	304	507	766	1292