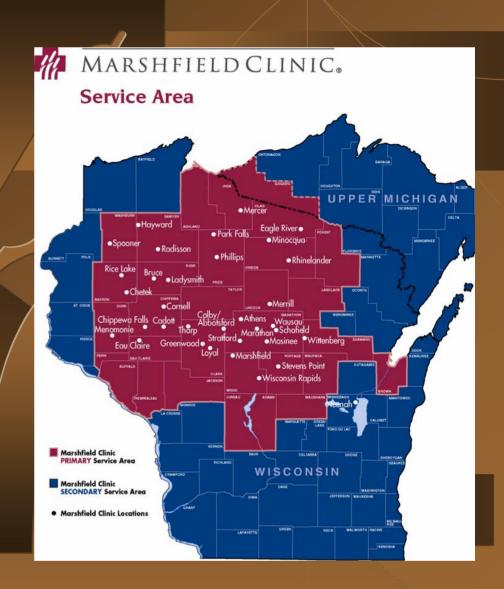


FTC, Innovations in Health Care Delivery Workshop April 24, 2008 Thomas Berg Marshfield Clinic

Healthcare Informatics at Marshfield Clinic

Marshfield Clinic

- Founded 1916
- 780 physician providers
- 45 Regional Centers
- 5 Dental Clinics
- 360,000 unique patients in 2007
- 3.5 million patient encounters in 2007
- EHR on over 2 million patients
- Marshfield Clinic Research Foundation
- Education programs -Internal Medicine, Surgery, Pediatrics, Med/peds, Transitional, Dermatology



IT @ Marshfield

- Started in 1964
- In-house development
 - Over 190 developers
 - 380 total staff
- o EMR 1985
- 100% physician adoption since 1994
- Integration culture/
- Strong leadership/support





EHR Status

- We have internally developed our EHR software
- The Software suite is CCHIT certified
- Marshfield Clinic is chartless



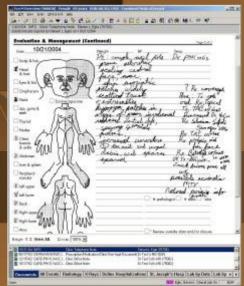




Point-of-Care Computing

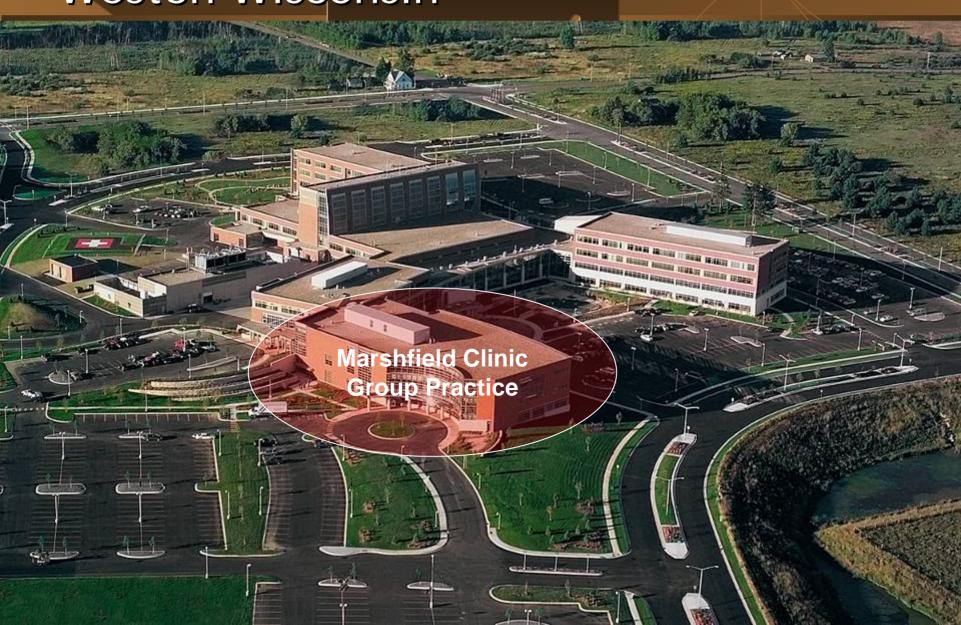
- We waited (impatiently) for a device one could carry
- Mobile wireless pen based computers are working
- Over 2600 devices are deployed
- All patient seeing physician care teams are using wireless pen based computing





HIE by Technology Adoption

The Marshfield Health Information Exchange (HIE) is a multi-organization, integrated healthcare information system







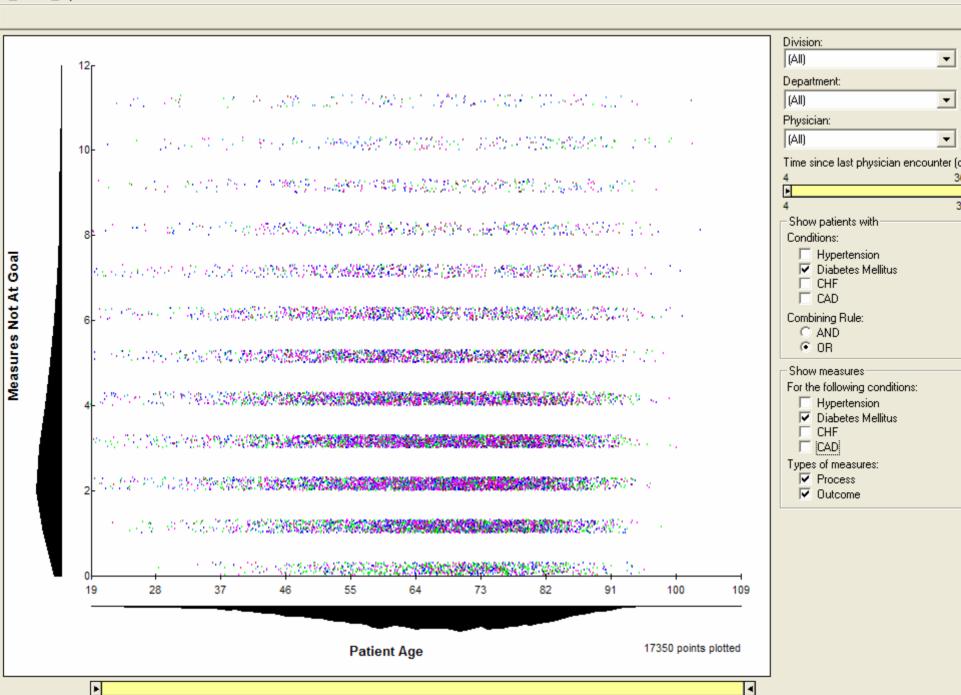


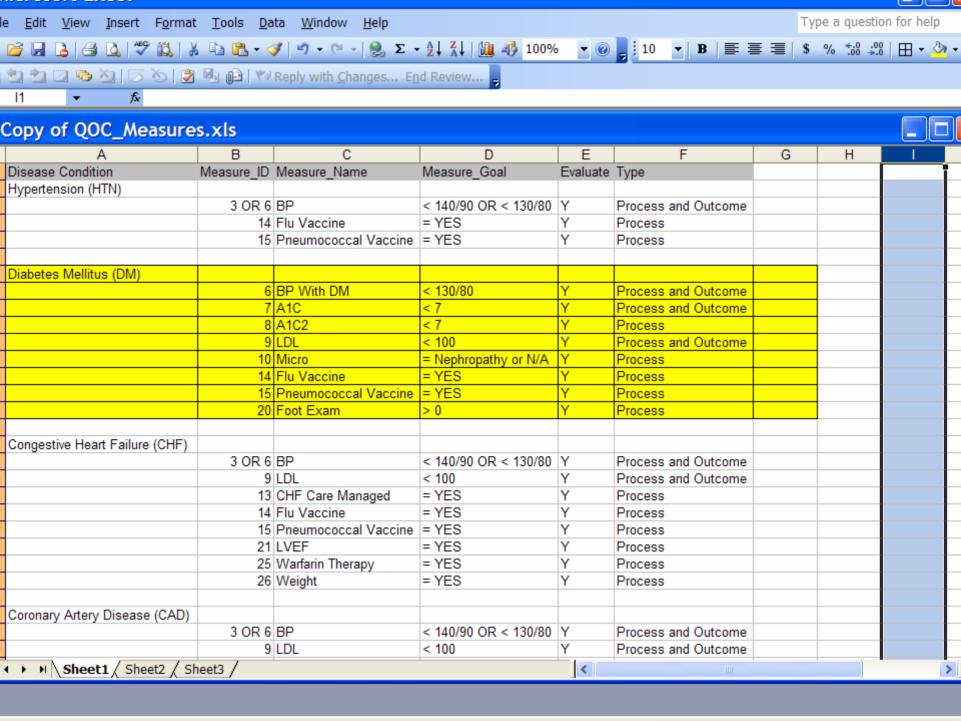


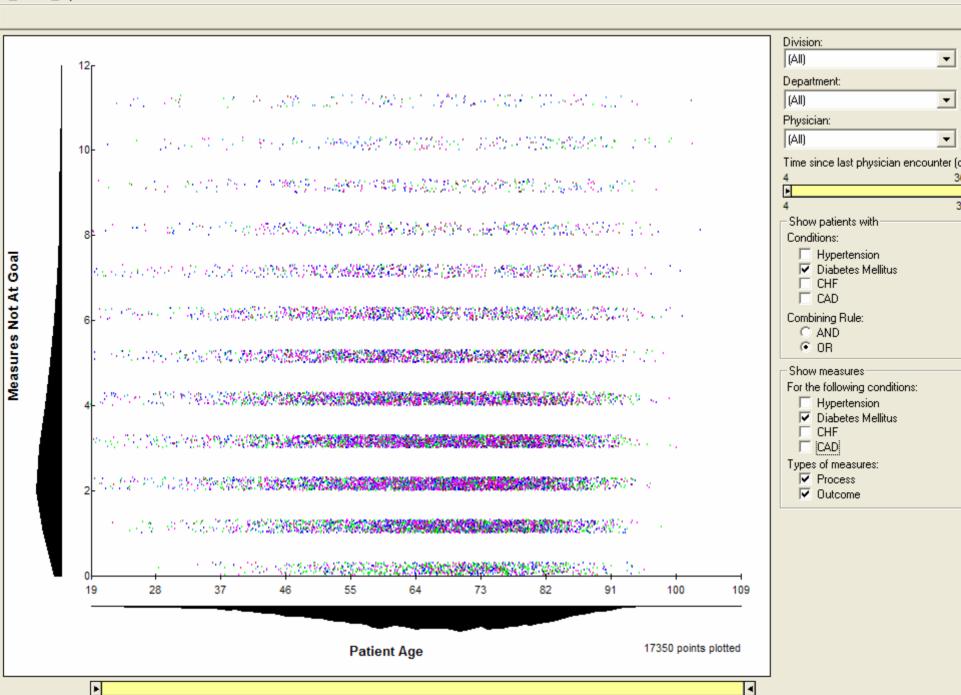
Leveraging Information Technology to Transform Healthcare for Chronic Disease

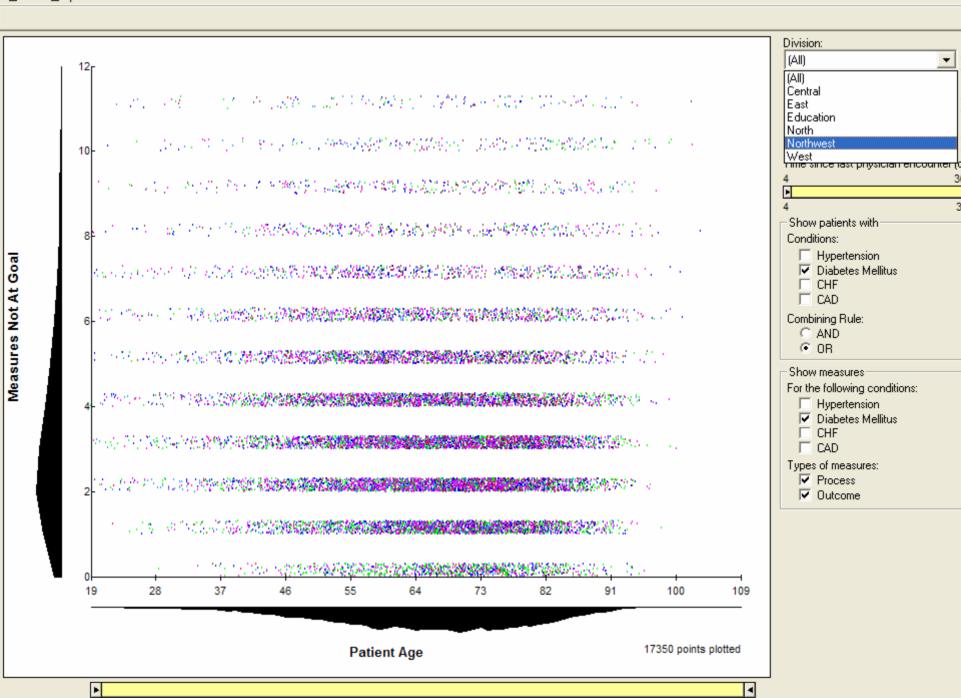
You Can't Influence what you Can't Measure

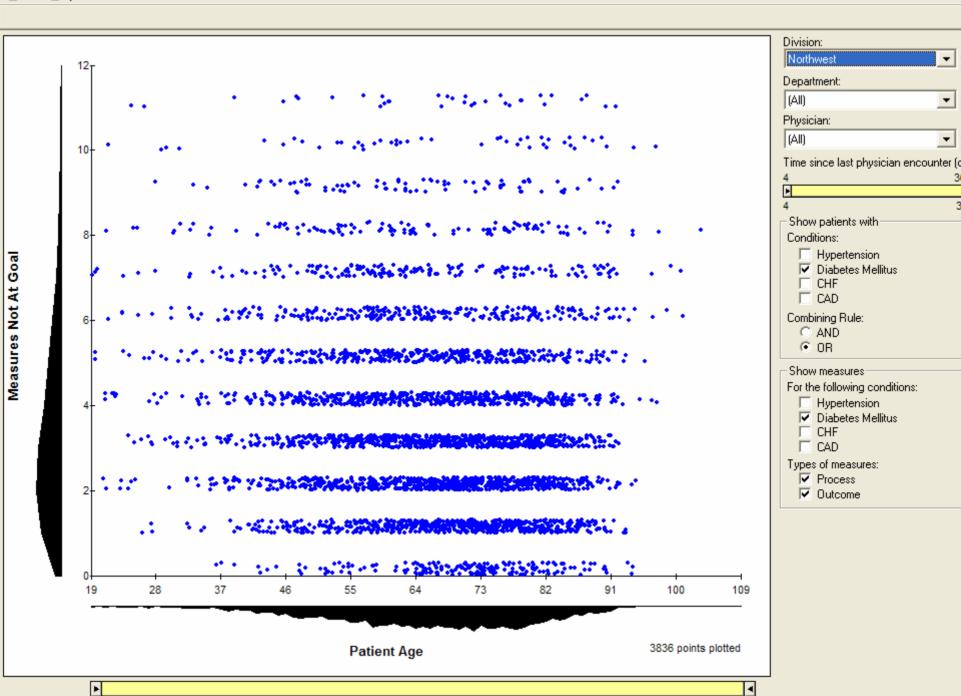
The Data My System (Data from 5000 feet)

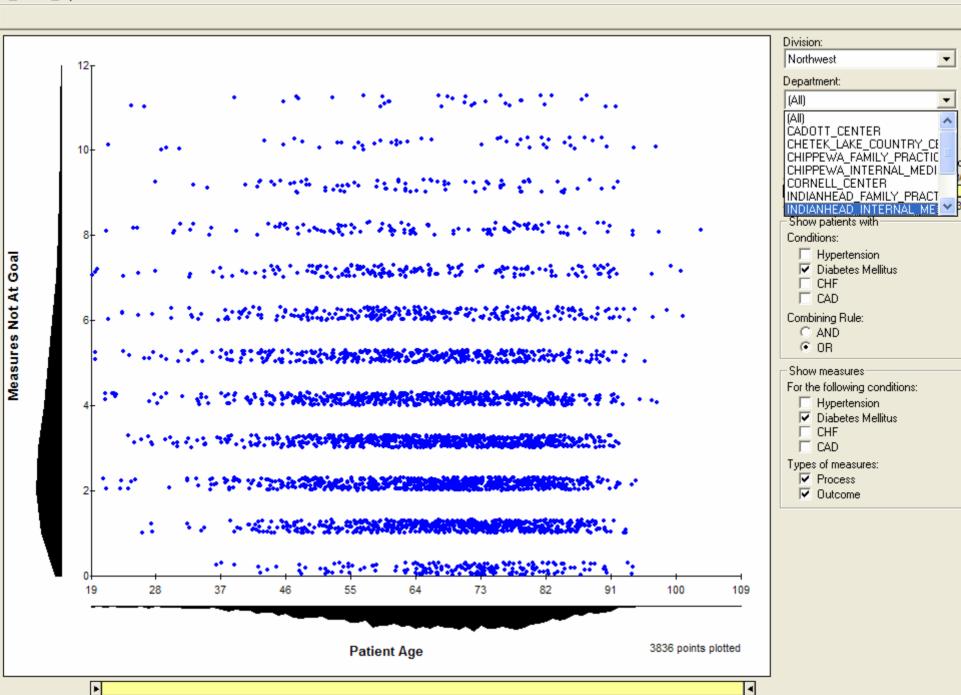


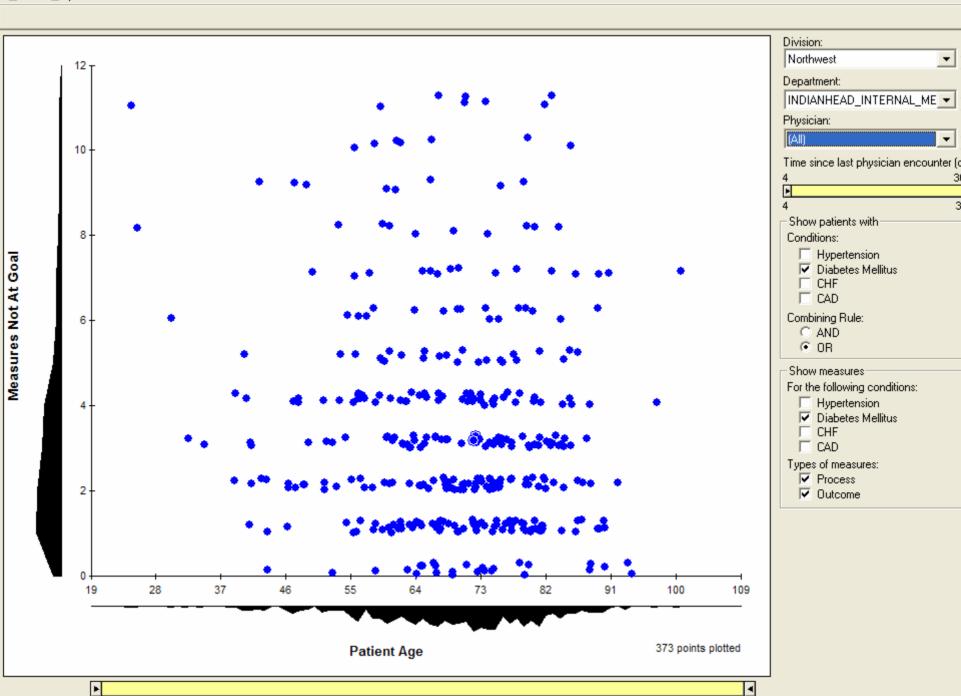


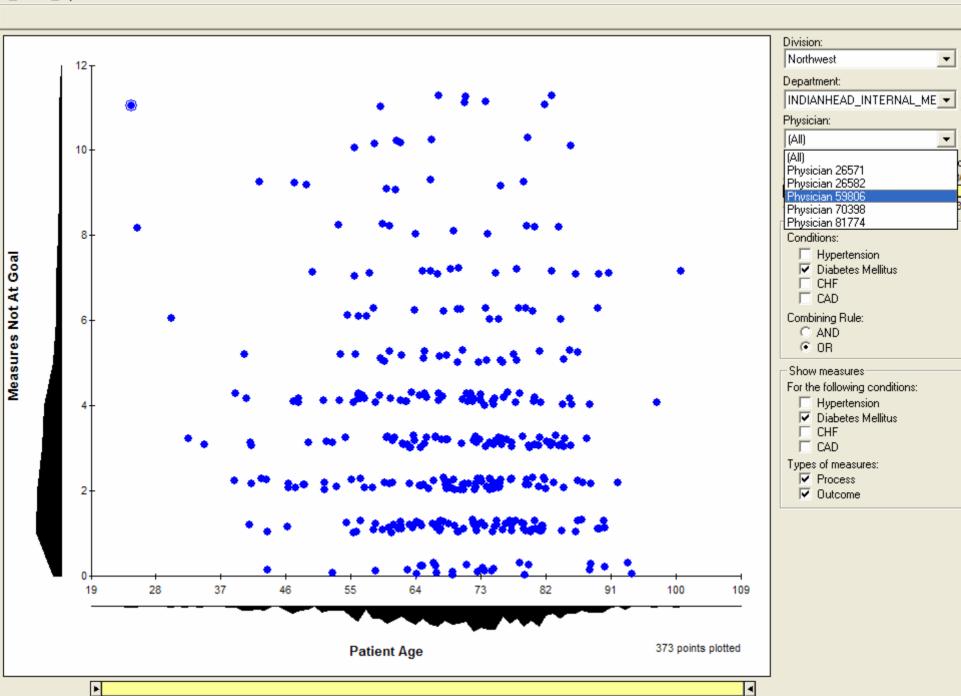


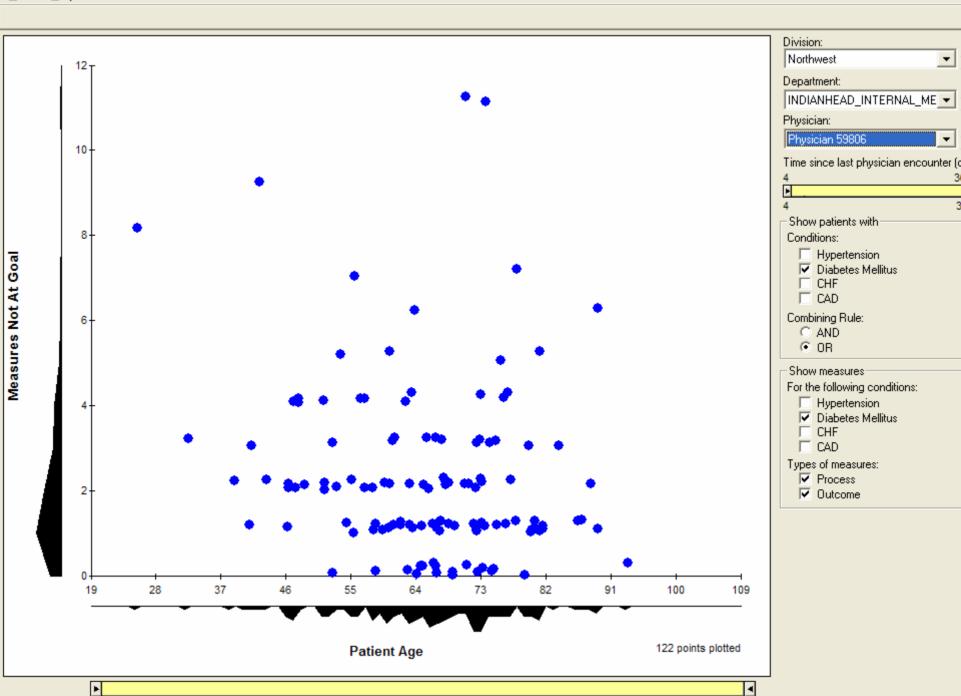


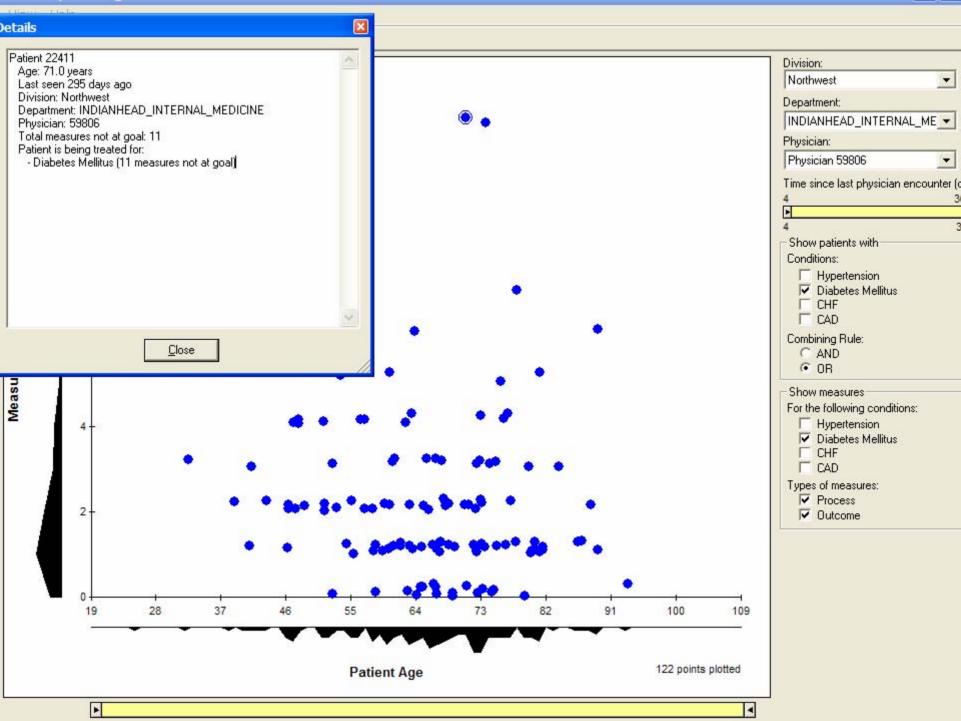












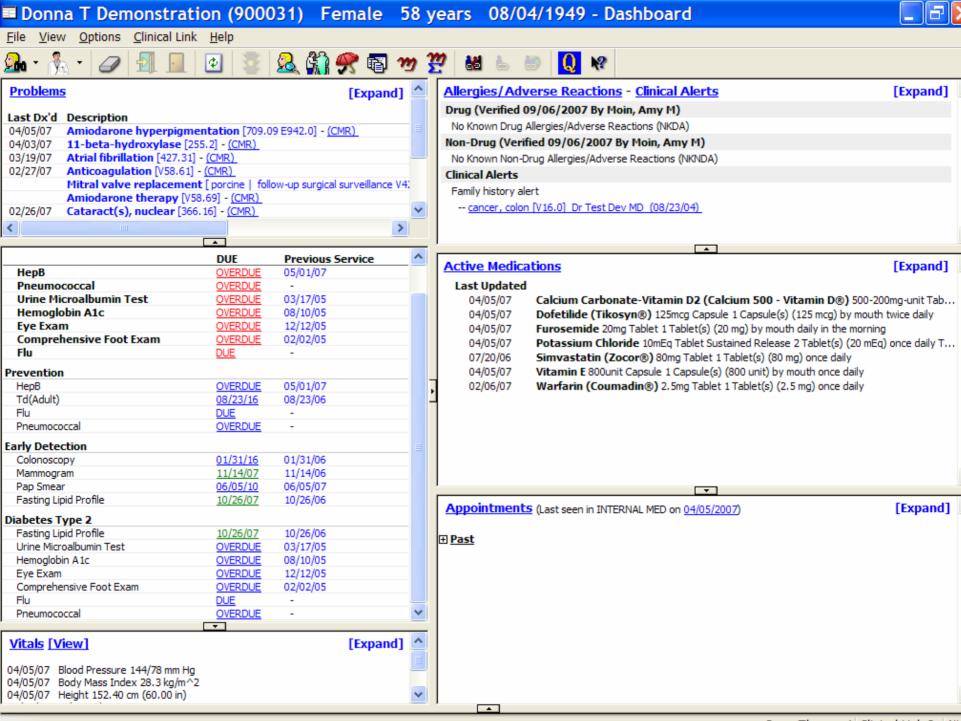


PROPRIETARY/CONFIDENTIAL INFORMATION OF MARSHFIELD CLINIC

FX Manage Worklist - iList Tools Clinical Link Edit View Help 2 4 .? Penniman as of 10/13/2007 (Total Patients: 164) Next Appt. Measures Conditions 7 CHF HTN **NOT at Goal** Pers. Prov. Name (MHN) DM Lexxtis, Xitipzh M (8708604) , 5/6 3 Xthhrzinzj, Aziizla J (873542) 3 1 1 4/6 10/16/2007 Ajyzvzj, Htmmzz J (202994) 3 4/6 3 Tmrieval, Cfspz (8317258) 1 1 1 3/6 02/05/2008 Mtpjfhhz, Tjlgvj Z (280750) 3 1 3/6 12/03/2007 3 Wtiv, Afy L (8755827) 3/6 10/17/2007 Xitiamei, Tmti M (843086) 3 2/6 3 Xitiamei, Ctkzh C (8742767) 1/6 03/11/2008 Otilt, Zwziz O (8734505) 3 1/6 10/15/2007 2 Xiznzm, Vys O (945119) 4/5 10/15/2007 Ntgmaz, Zmteiz Z (069366) 3/5 10/18/2007 2 Zwzihfi, Btljepet (21110) 3/5 11/05/2007 Vits. Vzfivz N (8005977) 1 2 1 3/5 11/12/2007 . Worklist Detail | Patient Detail Tmrjeval, Cfspz (8317258) Service Date Value w/in Last Year Action Required **Quality Measures Conditions List** consult provider Blood Pressure with Diabetes 136/58 10/05/07 Hypertension (HTN) Hemoglobin A1C 7.0 10/05/07 consult provider Diabetes Mellitus (DM) 120 Fasting Lipid Profile (LDL) 06/05/07 consult provider Congestive Heart Failure (CHF) Microalbumin / Evidence of Nephropathy nephropathy 10/05/07 none CHF Care Managed yes none Foot Exams within last year 06/05/07 none **-**Intervention Log [add | modify | details] Date Action Population Comments 09/11/2007 Appointment Already Exists 10/1/07 pt scheduled for labs and appt scheduled for a 4 month DM F/U on 10/5/07. Quality Care Metrics Not at Goal 05/17/2007 Letter Sent **Ouality Care Metrics Not at Goal** 01/26/2007 Appointment Already Exists appt on 02.02.07 Quality Care Metrics Not at Goal 01/17/2007 Appointment Already Exists Quality Care Metrics Not at Goal appt on 01.17.07 Appointment Already Exists labs on 01.15.07 and appt on 01.17.07 12/04/2006 Quality Care Metrics Not at Goal Appointment Already Exists labs on 01.15.07 and appt on 01.17.07 11/21/2006 Quality Care Metrics Not at Goal Appointment Scheduled micral and aic ordered in August 05/30/2006 Quality Care Metrics Not at Goal

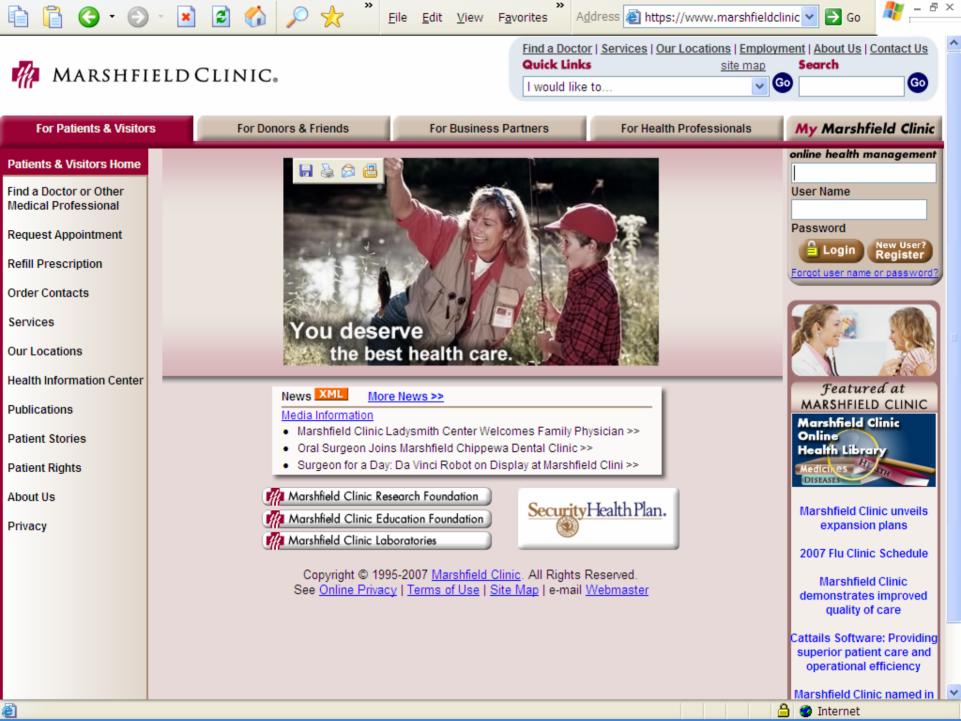


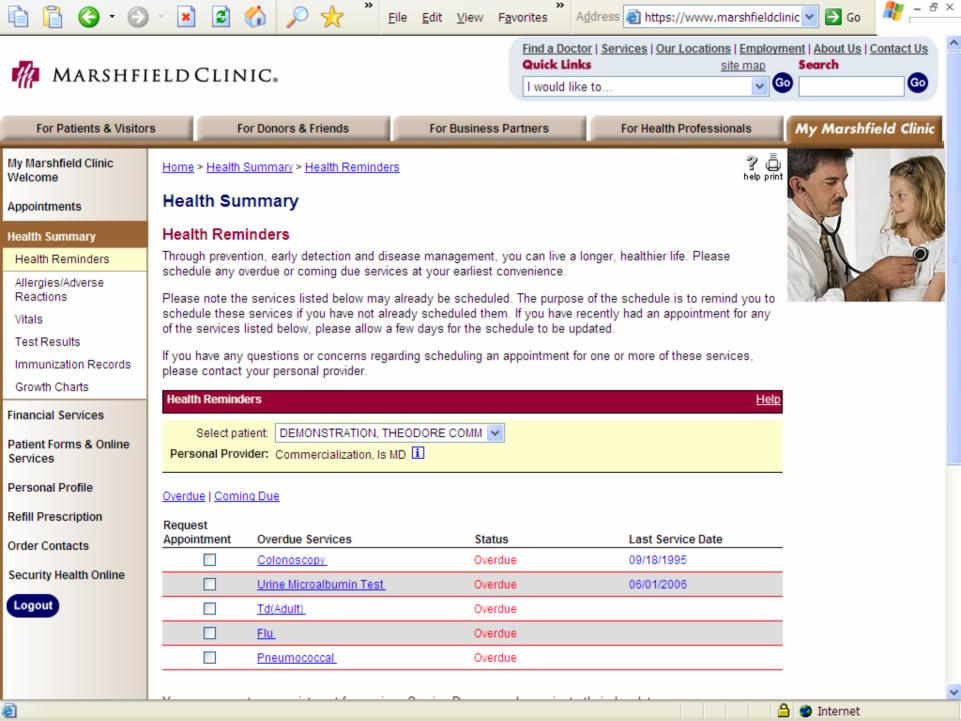
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Data -The Patient

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7 4

help print

For Business Partners

For Health Professionals

My Marshfield Clinic

My Marshfield Clinic Welcome

For Patients & Visitors

Appointments

Health Summary

Health Reminders

Allergies/Adverse

Vitals

Test Results

Reactions

Immunization Records Growth Charts

Financial Services

Patient Forms & Online Services

Personal Profile

Refill Prescription

Order Contacts

Security Health Online

Logout

Home > Health Summary > Test Results

For Donors & Friends

Health Summary

Test Results

Use the links under test column to learn more about individual tests. A lab value marked with an "*" indicates that we are presently unable to report a value. A limited number of tests are being displayed below. Only test results ordered after January 1, 2004 will appear. Additional test results will be added in the future.

Test results will be posted within 10 days.

If you have any questions or concerns regarding your test results, please contact your provider.

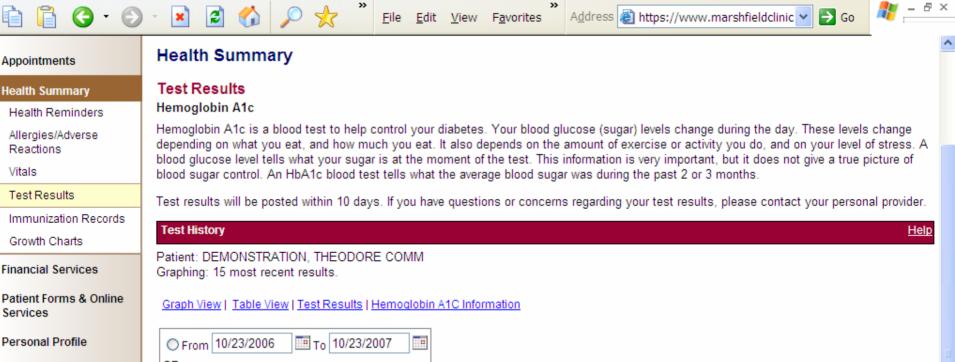
Test Results Help Select patient: DEMONSTRATION, THEODORE COMM V Personal Provider: Commercialization Is MD i

Results 1 - 5 of 5

Date 🖭	Test	Value	Normal Range
9/15/2006	<u>LDL</u>	96	80-130 mg/dL
9/15/2006	Hemoglobin A1C	8.6	4.0-6.0 %
9/15/2006	<u>HDL</u>	57	40-59 mg/dL
9/15/2006	<u>Triglycerides</u>	93	20-149 mg/dL
9/15/2006	Total Cholesterol	172	100-200 mg/dL

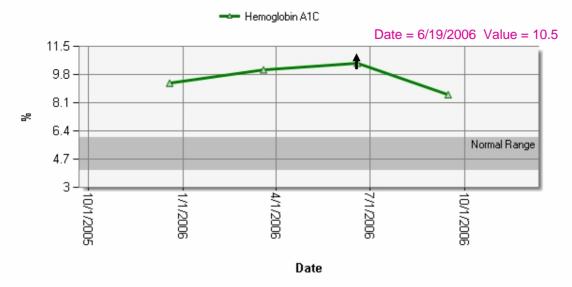
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Patient Forms & Online







Refill Prescription

Security Health Online

Order Contacts

Logout

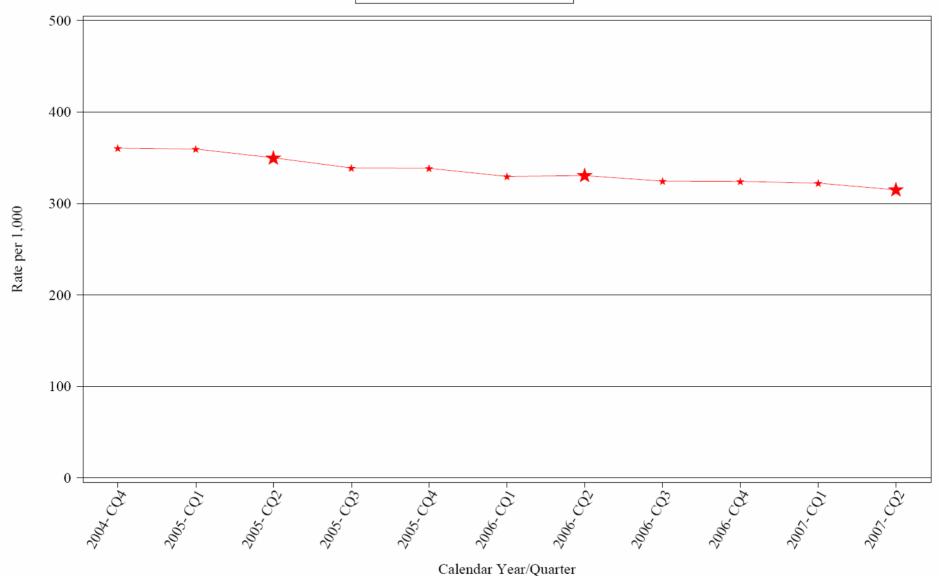




Marshfield Clinic

System Diabetes Mellitus Quality Measures All Cause Hospitalizations





Thomas Berg General Manager, IT Strategic Relation Marshfield Clinic berg.thomas@marshfieldclinic.org