

**Field Report:Initial Operational
Findings from a Medicare
Coordinated Care Demonstration Site**

The Mind _{My} Heart Program for Patients
with Congestive Heart Failure

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Executive Director

Georgetown University Medicare Demonstration Project



Phil Beauchene, MHA RN CMPE

- Executive Director of Georgetown University's *Mind My Heart* Medicare Project, one of 15 US sites demonstrating coordinated care for chronically ill Medicare FFS beneficiaries.
- Formerly served as COO of 130-physician multi-specialty medical group, as Assistant Administrator for Planning and Marketing of a 235-bed community hospital, and in senior staff positions in an integrated delivery network.
- RN clinical practice areas: ER, Med-Surg, and Psychiatry.
- Certified Member-American College of Medical Practice Executives
- Graduate of Bates College, VCU-Medical College of Virginia School of Healthcare Administration
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Overview

- Program Goals – *“I’m from the government and I’m here to help”*
- CHF + DM – *Low hanging DM fruit or the disease no one manages?*
- Operational Barriers and Challenges
 - Technology *“Did you turn it off and then on again?”*
 - Patient Recruiting *Turn nurses into HIPAA savvy salespersons!*
 - MD Acceptance *“How do I know you won’t steal my patient?”*
 - HR Building/Training *Turn nurses into caring techno geeks!*
- Lessons Learned – Mistakes to Avoid
- Future Opportunities

Program Goals

“I’m from the government and I’m here to help you...”

Overview - What Is



- Randomized demonstration of coordinated care services for patients with congestive heart failure (CHF).
- Funded by Medicare through May 2006 to learn whether Congress should provide new coverage types
- **Will serve any CHF patient in the DC metro area at no cost to patients, physicians, or hospitals.**
- **No change to existing patient-physician relationships or referral/hospital admitting preferences.**

Demonstration Overall Objective

To show what excellent coordination of care at home can do for CHF patients

- Patient living better,
- Family more secure,
- Fewer exacerbations,
- Lower cost



Demonstration Focus Areas

Does Mind _{My} Heart:

- reduce overall healthcare costs?
 - reduce hospitalizations/ER visits?
- improve patient/physician satisfaction?
- improve patient perceived quality of life?
- improve adherence to best practices ?
 - medical management
 - patient education/self-management
- function efficiently with technology ?

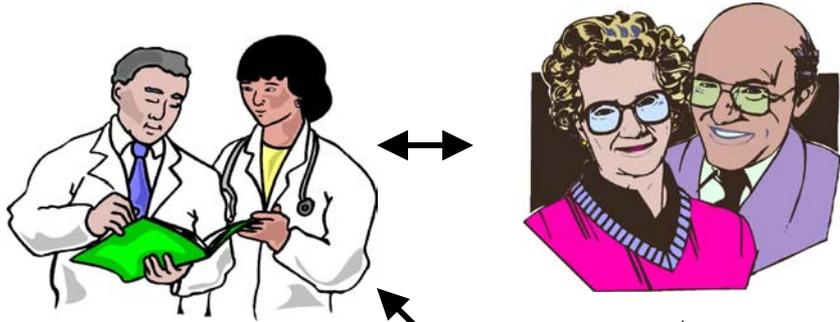
Care Management



- Physician Medical Management**
- Medications
 - Exercise tolerance
 - Diet
 - Family guidance
 - Office and hospital visits

- Patient's Daily Vital Signs**
- Weight
 - BP
 - Pulse
 - O₂ level
 - Fatigue and Breathing (subjective)

Patient and Family



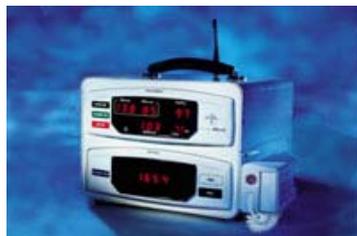
Patient's Usual Physician(s)



Community Services

- Transport Assistance*
- Medication Assistance*
- Referral to resources for co-morbid conditions
- Liaison with social agencies, churches, etc.
- Meals On Wheels, etc.

Home Monitor



RN Care Manager
(by phone and at patient's home)

The Care Manager makes it all work together

Randomized Study Design

Experimental Group

- Management of CHF by cardiologist or PCP
- Care Manager assigned to patient 24/7
- Home monitoring package
 - Weight, BP, P, O₂ plus 2 subjective questions on fatigue and breathing
- Transportation Vouchers
- CHF drug assistance
- Multi-disciplinary team

Control Group

- Management of CHF by cardiologist or PCP

Inclusion Criteria

- FFS Medicare beneficiary (Parts A + B)
- 65 years or older
- Washington, D.C. metropolitan area
- Congestive Heart Failure
 - NYHA CHF Class II, III, or IV.
- Primary physician willing to participate
- Patient willing to have Care Manager assigned and monitor in home
- Exclusions: ESRD, no phone line

CHF and Disease Management

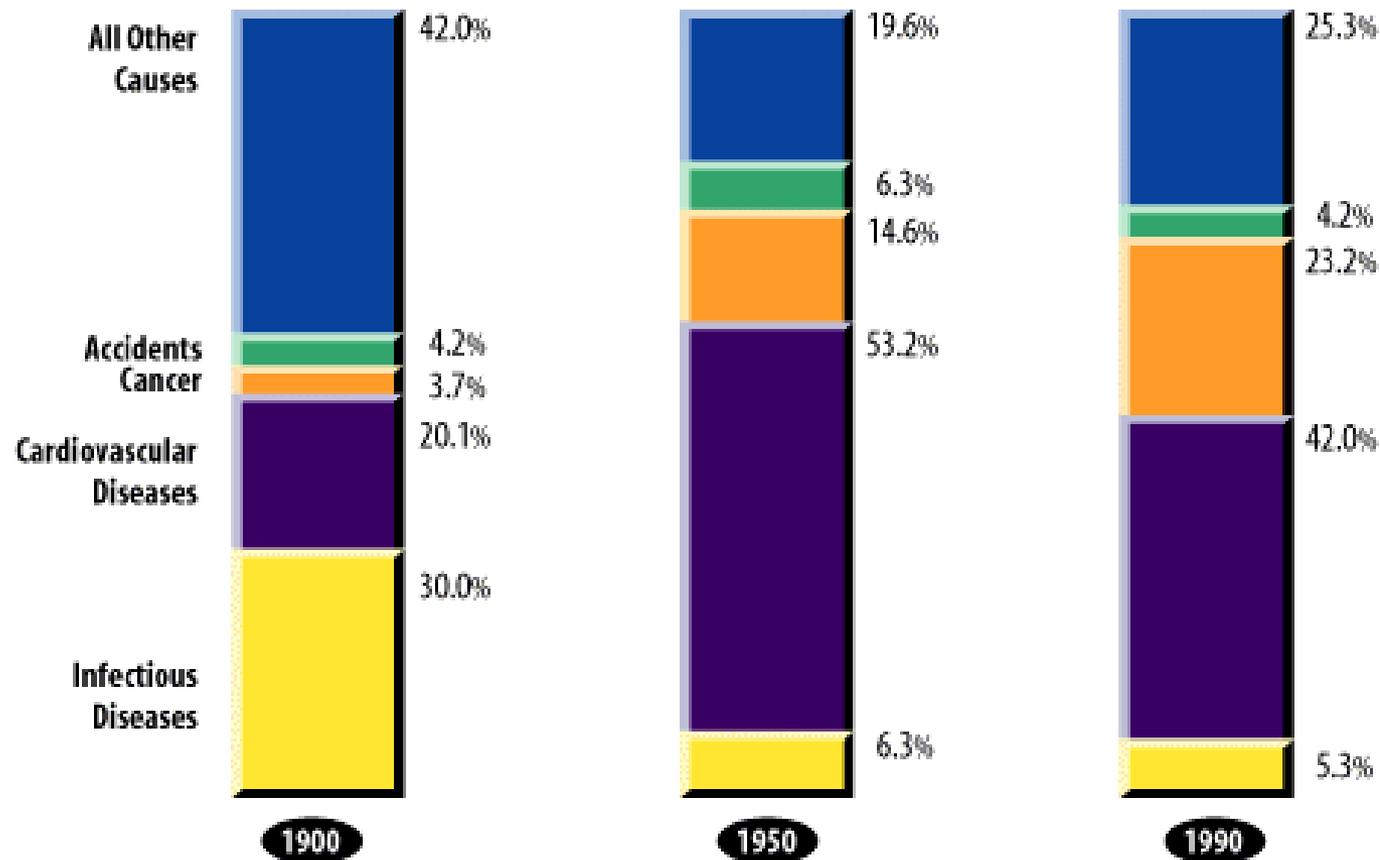
**Low hanging disease management fruit, or
the disease no one manages?**

CHF

- 4.6 Million Americans live with CHF
 - 12/10,000 hospitalizations in persons under 65
 - 325/10,000 hospitalizations in persons 74 + (AHA)
- Within 3-6 months post discharge, 29-47% of patients are readmitted with CHF symptoms
- In last year of life in DC area, average monthly cost of patients with CHF is \$2,862
- Pareto's Law Studies of chronic illness costs estimate the sickest 5-10% of patients generate 60-70% of expenses.

The Epidemic of Chronic Illness

Changes in the leading causes of death



Care Management / Care Coordination

Case Management

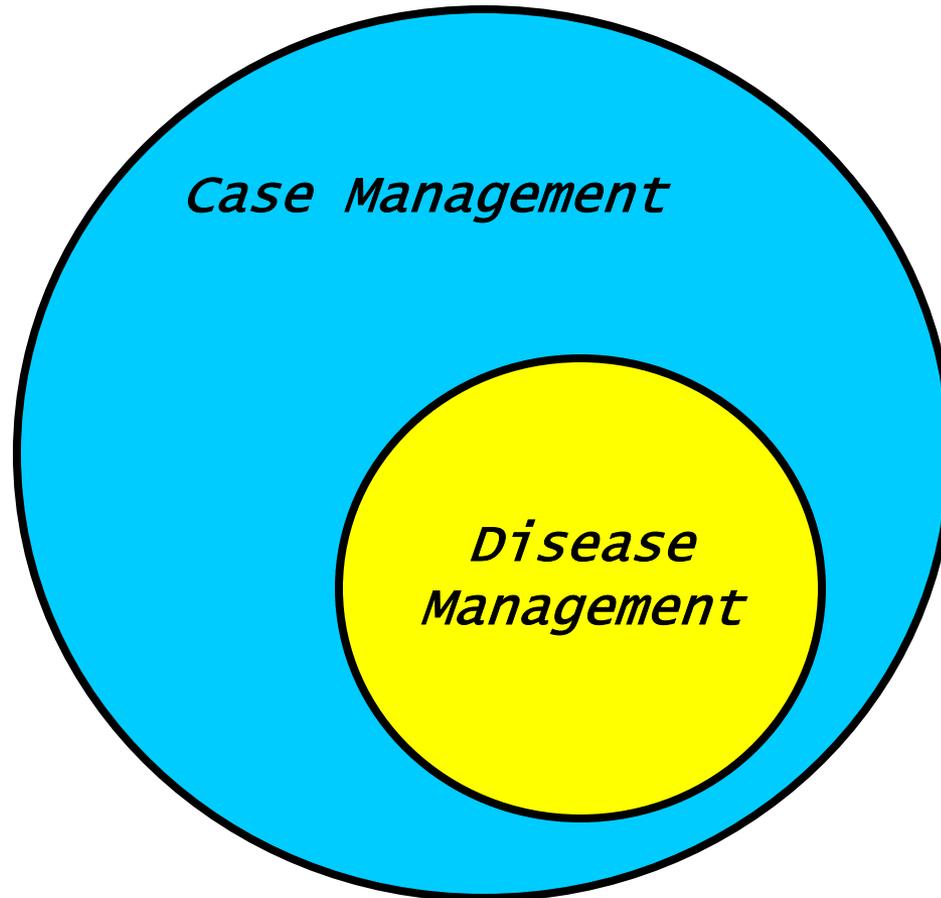
Chronically ill patients at high risk for suffering adverse and expensive outcomes, often with multiple illnesses, who require long term management

Disease Management

Chronically ill patients whose main health problems involve a single illness or diagnosis, and for whom interventions tend to be shorter

Care Management

A Combination of Case Management and Disease Management Approaches



Potential of Care Management

- Results from previous studies:
 - Rich et al (1989) - 90 day readmission rate decreased from 46% to 33%
 - Rich et al (1995) - 27% reduction in hospital readmission rate
 - Shah et al (1998) – 50% reduction in hospital admission rates
- Demonstrated ability to prevent readmissions for the same diagnosis within 30 days of discharge

CHF and DM – A Few Observations

- Fragmentation -Who actually manages the CHF?
 - Check the patient’s medication bottles!
- Persuading physicians to accept best practices
 - Mandates or persuasion?
- Helping nurses to step into new roles as coordinators and facilitators rather than as direct caregivers

Operational Barriers and Challenges

- **Technology**
- **Patient Recruiting**
- **MD Acceptance**
- **HR Building/Training**

Technology

Using 2 main systems:

- Canopy Systems, Raleigh NC
 - Web-based electronic medical record and case management software
 - www.canopysystems.com
- HomMed, LLC, Brookfield, Wisconsin
 - Home monitor measures weight, BP, P, O₂ and 2 subjective questions (other peripherals available)
 - Transmits data by pager to a secure server which is then accessed by dial-up connection
 - www.hommed.com

Technology

Canopy- EMR/Case Management Software

- **Thin client** – all your data is at the vendor. Need paper backup if system down.
 - Solution – Data mining and standard reporting
- **Connectivity** – need to connect to read/update patient chart. Dial-up not fast enough.
 - Short term solution – home DSL lines for Care Managers, catch WiFi areas on the road (Starbucks)
 - Long term solution – thick client version of Canopy that could be entered on tablets, PDA's, then synched
- **Interface with HomMed** – requires constant rechecks when one system or the other releases new software

Smith, Ed AGE: 65 (07/07/1936) Medical Record ... 558394 FIN: Commercial

Search Patient

FIND LIST

ADD NEW CURRENT

Summary Providers Directives Diagnoses Medications Allergies

Surgical Labs Vitals Resources Notes Pt Reports

Episodes Assessments Problems Plan of Care Forms Encounters

Providers

Admitting Physician
[Brown, Frank](#)

Attending Physician
[Marx, Dr. Mark](#)

Diagnoses

CHF
Hypertension (Benign)
NIDDM

VIEW ID's

Notes: [General](#) | [Directive](#) | [Diagnosis](#) | [Medication](#)

Last:

First:

Middle:

Address:

City:

State: ZIP:

County:

Phone Number: () ext.

Gender:

DOB:

Normal Location

Site:

Unit:

Room / Bed:

Current Location

Site:

Unit:

Room / Bed:

CM Status:

Financial Class:

Emergency Contact Name:

Phone: Note:

This is a Training/Test Patient

UPDATE CANCEL



Smith, Ed AGE: 65 (07/07/1936) Medical Record ... 558394 FIN: Commercial

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Patient Reports

? HELP

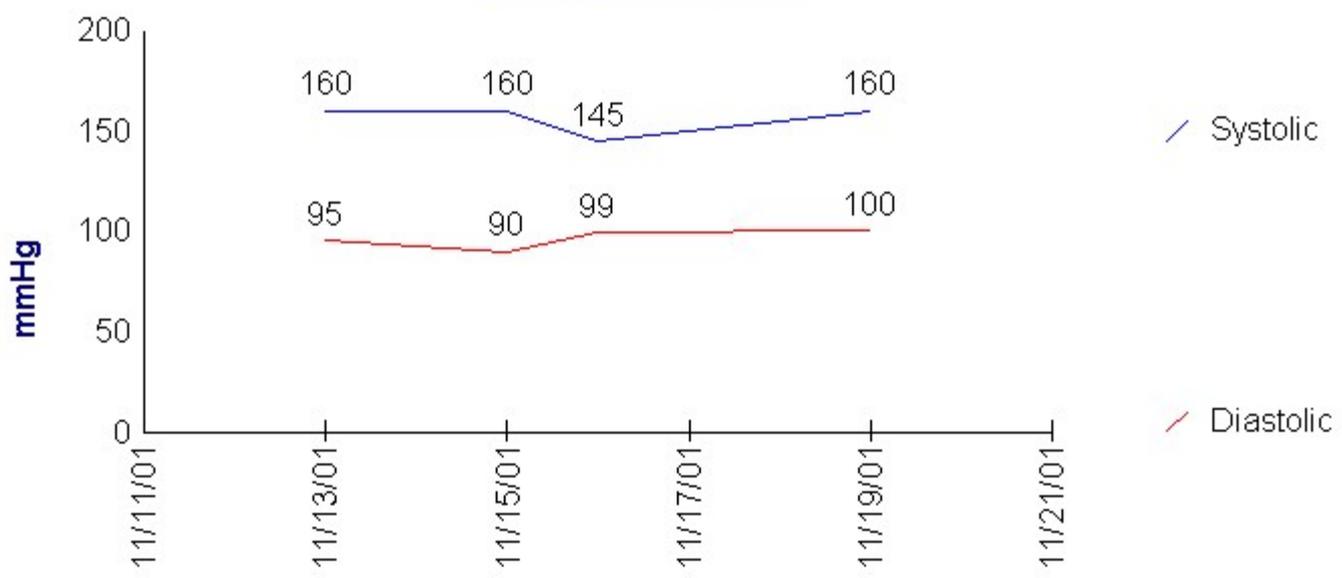
Report	Description
Demographic Report	List key demographic data for the selected patient
Patient Annual Lab Ordering Sheet	Patient Annual Lab Ordering Sheet for Normal Location
Patient Clinical History Report	List key clinical data for the selected patient including closed problems
Patient Contact Notes	List all notes entered via the Notes Tab for the selected patient
Patient Current Clinical Profile Report	List key clinical data for the selected patient including lab data. Closed problems are excluded.
Patient Pending Lab Report	List all current lab orders and illustrates the most recent result and next due date
Patient Progress Report	Reports information about each episode in the Patient's episode history.
Patient Summary Report	List a summary of patient demographic and clinical history
Patient Vitals Graph	Shows line graph of blood pressure and line graph of weight

**Patient Clinical Information
Displayed in Real-Time**

Search
FIND
NEW
Providers
Attending Physician
Frank
Attending Physician
Dr. Mark
Diagnoses
Hypertension (Ben
DM

Patient Name: Ed Smith

Blood Pressure



Technology

Advantages of Canopy EMR

- Date and time-stamping of all encounters allows for accountability and productivity monitoring
- HIPAA-secure and confidential data transmissions
- Interface with other systems – HomMed monitor
- Internet platform – real time updates, multiple simultaneous access to the EMR
- Internet and intranet resources available for the Care Manager in the field.

Technology

HomMed Monitor

- Teaching elderly patients to use technology
- Clarify it is not an emergency response aid
- High rate of alerts initially, then steadies
- Monitor Fatigue – compliance rate is outstanding (98%) , but patients get “tired”.
- Previously mentioned interface between HomMed and Canopy
- Paper contingency if system down



Stein, Matthew

Memorial Hospital - North Side Clinic

Condition	Patient Name	Weight	Blood Pressure	SpO2	HR	Temp	Answers	Additional Devices
ALERT	Delaney, Russell	245.0	160 / 105 (123)	86	115	-	2 Yes, 8 No	-
ALERT	Huang, Greg	162.0	157 / 90 (112)	87	105	99.1	10 No	-
ALERT	Bruchard, Anna	133.5	151 / 95 (114)	93	110	-	1 Yes, 9 No	-
ALERT	Stein, Matthew	222.0	118 / 66 (83)	89	84	-	10 No	Glucose within limits, Spirometry within limits
ALERT	Rodriguez, Maria	139.5	120 / 85 (97)	87	75	98.6	8 No	Glucose within limits
ALERT	Chang, May	125.0	124 / 82 (96)	88	70	-	6 No	-
ALERT	Young, Priscilla	112.0	115 / 71 (89)	95	103	99.0	5 No	Glucose within limits
ALERT	Majeed, Alla	150.5	125 / 75 (92)	95	72	98.6	9 No	-
No Limits Set	Jones, Tony Q.	150.4	124 / 75 (103)	95	76	99.0	2 No	-
NDR	Orr, Terrance	-	-	-	-	-	-	-
NULL	Wilford, James	-	-	-	-	-	-	-
Incomplete	Morgan, Barbara	162.0	125 / 75 (92)	95	80	-	7 No	-
Incomplete	Cromwell, Jeanne	-	120 / 85 (97)	92	70	-	10 No	-

Condition	Patient Name	Weight	Blood Pressure	SpO2	HR	Temp	Answers	Additional Devices
Within Limits	Gerhardt, Philip	150.5	125 / 75 (92)	94	66	-	10 No	PT/INR within limits
Within Limits	Edwards, Latoya	136.0	134 / 88 (106)	97	79	98.6	8 No	-
Within Limits	Wagner, Daniel	182.0	115 / 75 (88)	93	69	-	6 No	Spirometry within limits
Within Limits	Valdez, Raymond	158.5	125 / 75 (92)	97	72	98.8	9 No	Glucose within limits
Within Limits	Sherwood, Darren	160.5	131 / 90 (104)	96	63	99.0	5 No	-
Within Limits	Richards, Kelly	170.0	125 / 75 (92)	95	70	98.6	10 No	-
Within Limits	Steven Edwards	150.5	124 / 74 (91)	94	66	-	10 No	PT/INR within limits
Within Limits	Remillard, Marc	124.0	115 / 75 (88)	97	79	98.6	8 No	-
Within Limits	Gaffney, Erin	133.5	134 / 88 (105)	93	69	-	6 No	Spirometry within limits
Within Limits	Bunting, George	163.0	125 / 75 (92)	97	72	98.6	9 No	Glucose within limits
Within Limits	Cave, Jonathin	155.5	131 / 90 (104)	96	63	98.4	5 No	-
Within Limits	Ortiz, Maria	133.0	126 / 76 (93)	95	70	99.0	10 No	-

Standing Orders

Respond to Vital

Patient List

Tabular Trends

Demographics

Monitor Setup

Notes

User ID: KMAYS

Refresh

Sign Off

Signoff & Exit

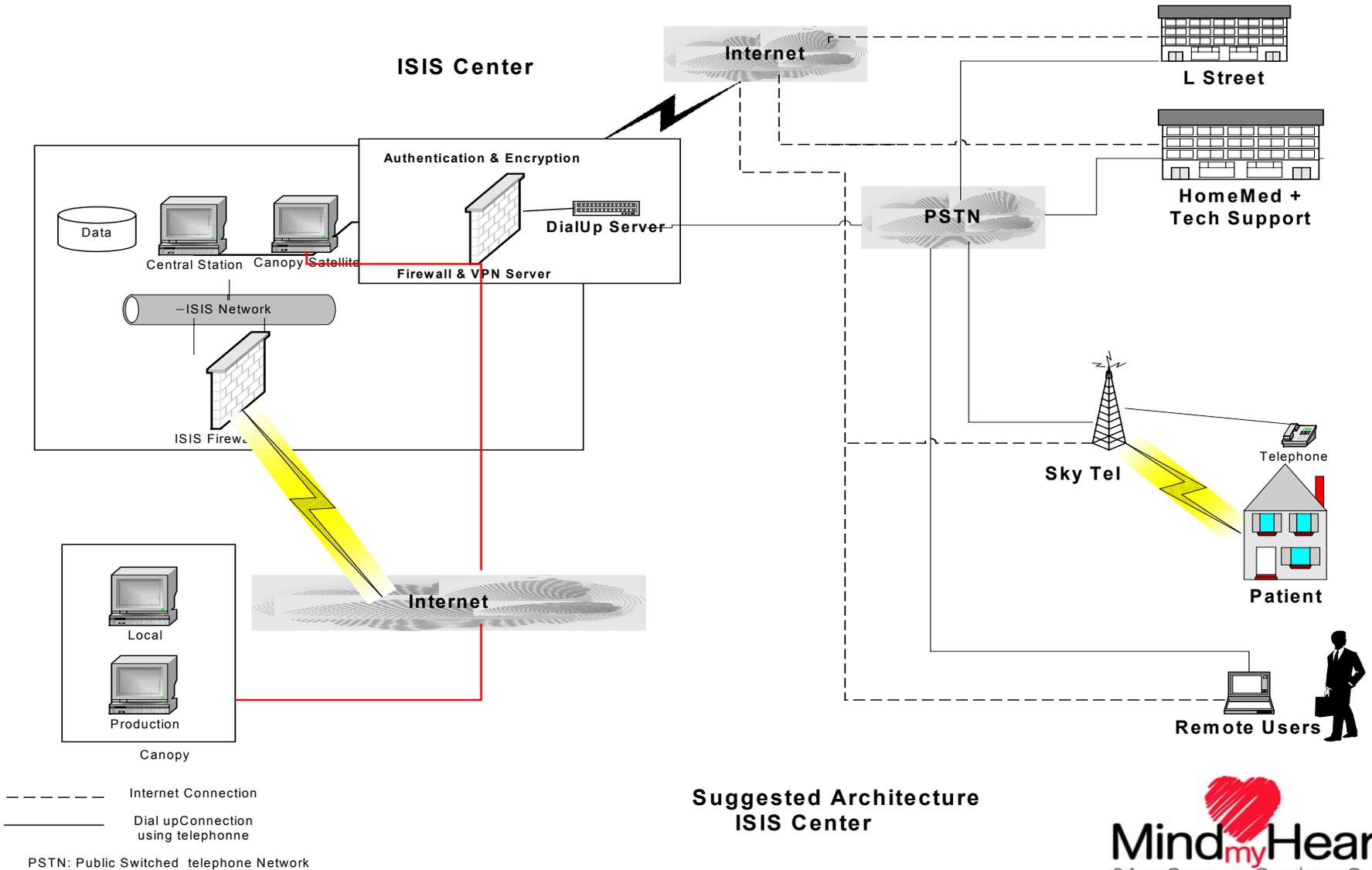
Technology

RN Care Managers - Electronic Road Warriors

- **Laptop configured for WiFi, home DSL, shortcuts to Canopy and HomMed**
- **Cell phones**
- **Home DSL lines or cable connections**
- **Home printer/scanner/fax machines**

**Superb support from Georgetown University
Imaging Science Information Services
department (ISIS)**

Technology - Connectivity



**Suggested Architecture
ISIS Center**

Patient Recruiting

“And who is paying for this again?”

Patient Recruiting

Specific challenges we encountered

- Establishing credibility (true of any start-up)
- Reassuring patients that they will not be charged or lose benefits for care management
- Model requires MD consent to recruit their patient – cumbersome but effective in long run
- Elderly mistrust of initial telephone contact
“I’ll need to check with my doctor when I see him next month” Time delays.

Patient Recruiting

Patient Identification Methods

- Search of hospital discharge records (HIPAA)
- Presentations to groups of physicians, NP/PA's, hospital discharge managers, Visiting Nurses
- Write-ups in hospital and community newsletters
- Ads in *Washington Post* Health section and article and ad in the *Senior Beacon*
- Presentations at senior retirement communities
- Personal selling to physicians

Medicare Patients

*Do you have Congestive Heart Failure (CHF)?
(Enlarged heart?
Heart not "pumping" well?)*



We want to help you get to the heart of your Congestive Heart Failure!

Medicare has asked us to help carry out a demonstration of care management services for patients with CHF.

If selected, you will receive at no cost:

- Your own RN Care Manager
- An electronic home monitor that measures weight and blood pressure daily
- Transportation and limited pharmacy assistance (for patients with financial need)
- All while remaining with your own physician and preferred hospital

For more information, call
202-785-6666 or
1-866-466-0600 (toll-free).



To qualify, you must:

- Have documented CHF, either alone or with other conditions
- Have had a hospital stay within the past year
- Be 65 or older
- Be enrolled in Medicare Part A and Part B (this program does not affect your Medicare coverage)
- Live at home in the DC metro area, including MD/VA suburbs

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Physician Acceptance

“How do I know you aren’t going to steal my patient or tell me how to practice?”

Physician Acceptance

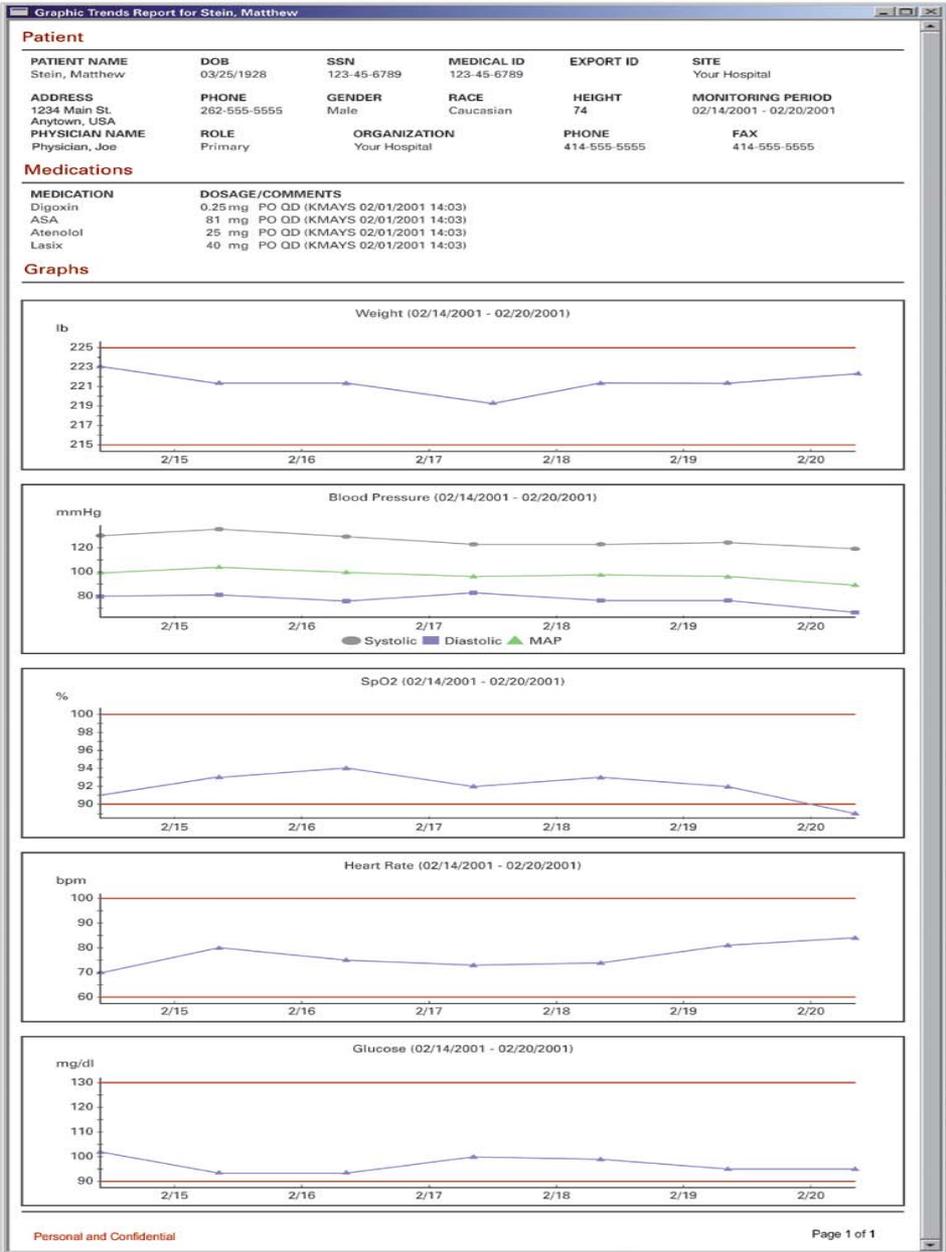
Challenges

- DC is a very busy medical community with lots of research studies. Hard to develop awareness of a brand new program.
- Resistance to for-profit or health plan DM programs. Keep needing to emphasize not-for-profit and government research connection.
- Resistance to “having to do one more thing and not getting paid for my time”
- Fear of losing patients to academic medical center physicians.

Physician Acceptance

Gaining Physician Trust

- Good care – the absolute requirement
- Useful data and observations – graphical trends delivered just in time for patient office visit
- Reimbursed case conferences with physician – brief but focused. Review monitor parameters, meds, and findings from the multi-disciplinary team
- Reduced number of “nuisance” calls from patients and NO nuisance calls from nurses.
- Absolutely no changes to patient’s existing physicians, specialists, and hospitals. No stealing!
- Letter from Medicare Administrator Scully



Staff Recruiting and Training

“So then I remembered that I could get into HomMed by going through the VPN at ISIS” Care Manager

Staff Recruiting and Training

- Need 3 areas of expertise to be a Care Manager:
 - Cardiology nursing background
 - Home health background (probably most important)
 - Case management
- Plus comfort with computers and technology
- Can't find too many people with all these qualifications, need to fill in the gaps with OJT
- Not a job for a brand new nurse

Staff Recruiting and Training

Strategies Used

- Mentoring
- Training by company reps
- Thorough orientation (3 month process)
- Opportunistic training
- Detailed procedures
- Reminding nurses not to nurse the monitors but the patients

Lessons Learned

Mistakes to Avoid

Lessons Learned

- Prophet has no honor in his own land
- Choose a model that integrates more into the physician's office
- Build physician commitment early
- Be persistent
- Multiple fishing holes vs. 1-2 big ponds
- Winston Churchill – best commencement speech ever

Future Opportunities

- Results of this demonstration and others ongoing will determine if Medicare will recommend new benefits to Congress
- All within context of proposed changes in Medicare –stay tuned
- If model successful, should provide new business line to integrate in an IDN, probably with your home health agency