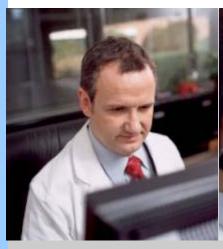
Chronic CareTaking Disease Management Beyond Hospital Walls







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The Chester County Hospital

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The Chester County Hospital

- Founded in 1892
- Independent, not-for-profit
- Licensed beds 221
- Number of employees 1700
- Emergency department visits 41,244
- Cancer Center affiliated with HUP
- Pediatric and Level III NICU affiliated with CHOP
- Interventional Cardiology & Electrophysiology
- CV Surgery affiliated with The Cleveland Clinic

Disease Management

- A systematic population based approach to identify patients at risk
- Utilizes evidence based guidelines to prevent exacerbations and complications of chronic disease
- Supports the practitioner/patient relationship and plan of care
- Measures clinical and other outcomes to improve quality of care

Disease Management Support

- We do not take over management of patients from the PCP – we support the medical plan of care
- Collaboration with outpatient managers of care to promote consistency in treatment, educational and intervention strategies
- Act as a resource for staff and patients

Why Heart Failure DM?

Nationally

- Leading cause of hospitalization in persons over age 65
- Costs \$25.8 billion annually

- ALOS 6.2 days
- 20% 50% readmission rate within 6 months
- 20% readmission patient failure to seek medical attention for worsening symptoms

Our Experience

- 127 our highest volume DRG
- 2005 costs \$4,607,9232005 reim. \$4,252,997(\$354,926)
- ALOS 6.4 days
- Comparable
- Comparable

Heart Failure at CCH

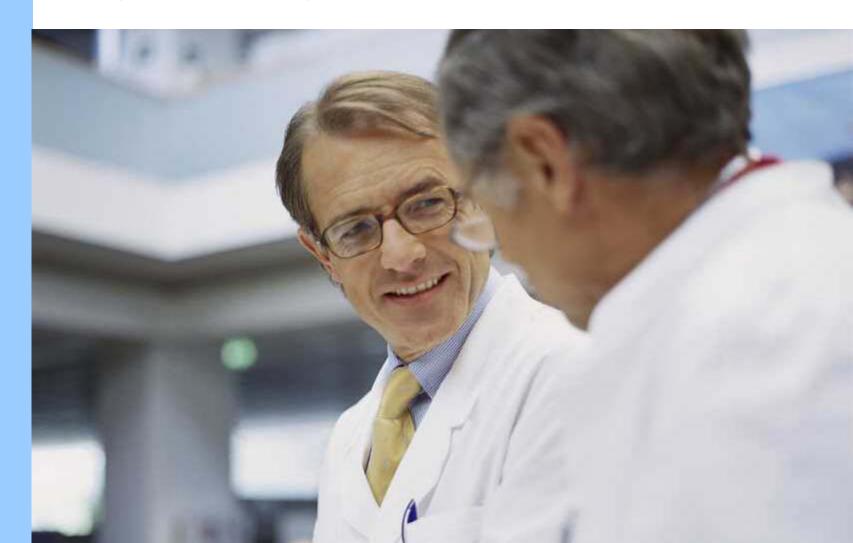
- 467 discharges last year with a primary diagnosis of HF
- 75% of our HF patients group to DRG 127
- DRG with greatest number of excess days
- Through-put issues/bed availability
- Core measure compliance



Our Starting Points

- Order sets
- "Choose and check" progress notes
- Discharge forms
- Discharge reminders
- Patient education material
- Medical and nursing staff education

Getting Started Physician Buy-In



Physician Concerns

- Patients will be confused
- Patients will stop coming for office visits
- Patients might be told something I don't want them to know
- Conflicting literature about the efficacy of DM programs



Success with Physician Buy-In

- Physician champion(s)
- Demonstration
- Progress reports
- Section meetings
- CME conferences
- Quality Council
- Newsletters
- 1:1 "hallway conferences"
- Luncheon meetings with PCPs
- Bi-weekly HF Taskforce Meetings



Skepticism to Collaboration Linking with a Cardiology Practice

- Increase patient satisfaction?
- Improve/enhance communications between inpatient and outpatient environments?
- Promote core measure documentation compliance?
- Reduce LOS when patient is admitted?
- Reduce admissions, ED visits and unscheduled office visits?
- Increase patient accountability?

How We Make It Work

- Admission notification
- Patient education
- Assessment for enrollment in telephone monitoring
- Assessment for enrollment in research study
- Assess medical record for compliance with core measures
- Interdisciplinary collaboration

CCH Admission Notifications

- Soarian Workflow Alert. A patient with a admission DX suggesting CHF has been admitted. Patient's Name:
 ******* has been admitted to floor TELE Bed:
 331101. The patient's MRN is ****** and their PT ID is 10000******. The admitting diagnosis is ACUTE DYSPNEA STABLE PNEUMOTHORAX, LEFT PLEURAL FUSION,S/P CORONARY ARTERY BYPASS GRAFT
- 2. Soarian Workflow Alert. A patient with a history of CHF has been admitted. Patient's Name: ******* has been admitted to floor ACC Bed: OACC21. The patient's MRN is ****** and their PT ID is 10000*****. The admitting diagnosis is LEFT TOTAL KNEE ARTHROPLASTY. The last inpatient admission for this patient was on: Unknown

CCH Admission Notifications

- 3. Soarian Workflow Alert. A patient enrolled in the outpatient CHF program has been admitted. Patient's Name: ******** has been admitted to floor TELE Bed: 330702. The patient's MRN is ****** and their PT ID is 10000******. The admitting diagnosis is Unknown
- 4. Soarian Workflow Alert. A patient has just had a new BNP above 150. Patient's Name: ************************** is on floor WW2 Bed: 026102. The patient's MRN is ******* and their PT ID is 10000*******. The admitting diagnosis is GROSS HEMATURIA. The reported BNP level was: 416

Soarian DM

- Computerized data base of HF patients enrolled in telephone monitoring
- Alerts trigger outbound calls
- Allows nurse to manage high number of patients and focus outbound calls
- Early intervention is facilitated
- Promotes continuum of care

Outcomes

- Recognition/acceptance within the organization as evidenced by medical and nursing requests for consults
- Community and regional recognition
- Increased collaboration/communication between inpatient and outpatient healthcare practitioners

Outcomes

- Reduced hospital visits
- Bed opportunity
- Increased awareness of physician practices d/t concurrent chart review
- Improved compliance with core measure documentation
- Positive patient feedback

Next Steps

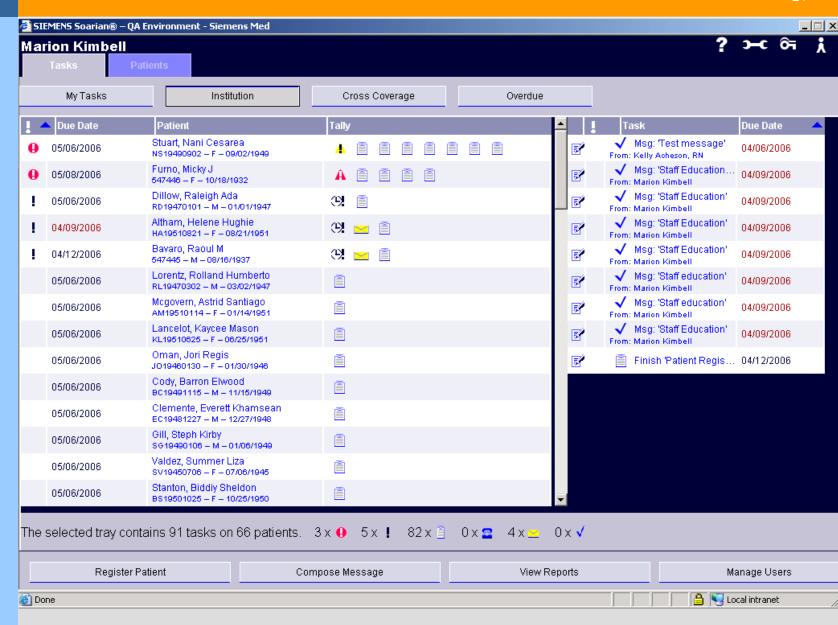
- Hospital based HF Clinic
- Short stay inpatient unit
- Con-current coding
- Electronic notification based on EF
- Apply what we have learned to extend DM support to larger CV patient population
- Test Soarian DM 2.1

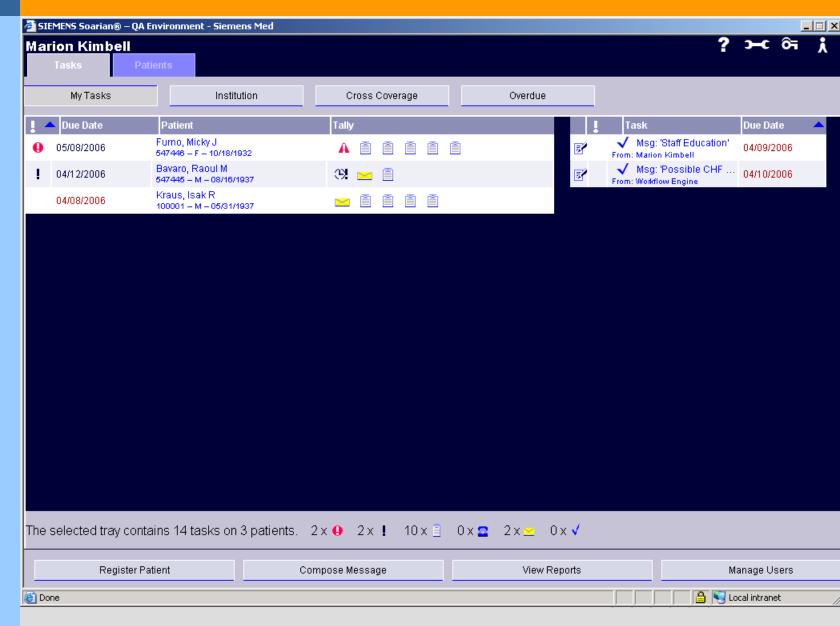
SIEMENS 20

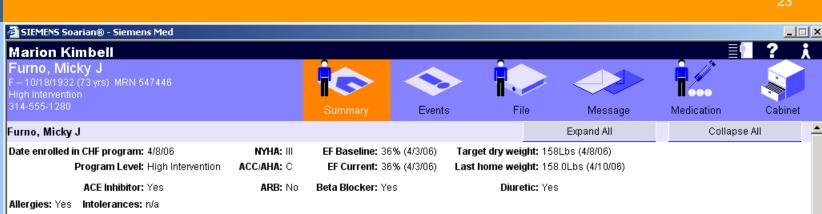
Soarian Disease Management

- Patient self monitoring via Interactive Voice Response
- Customizable notifications/reminders
- Patient compliance tracking
- Problems and interventions checklist
- Telephonic nursing assessments









Allergies & Intolerances Notes: Allergy PCN

Careteam Members

Responsible Nurse: Marion Kimbell Phone: 215-555-6300

Cardiac Related Diseases

Hypertensive heart disease - Benign, with heart failure; Left Heart Failure;

Comorbidities and Risks

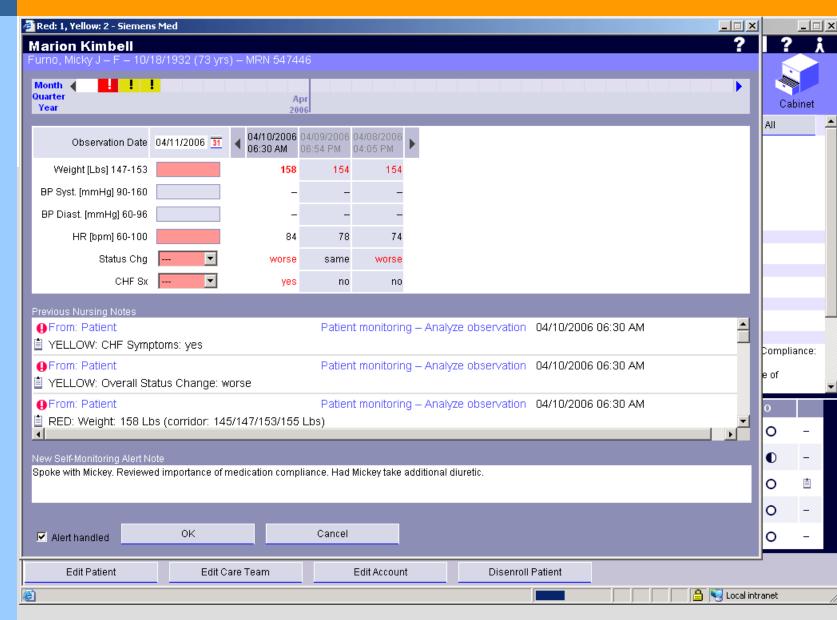
Hypertension Yes; **Diabetes** Type II; **Depression** Yes; **Dyslipidemia** Yes;

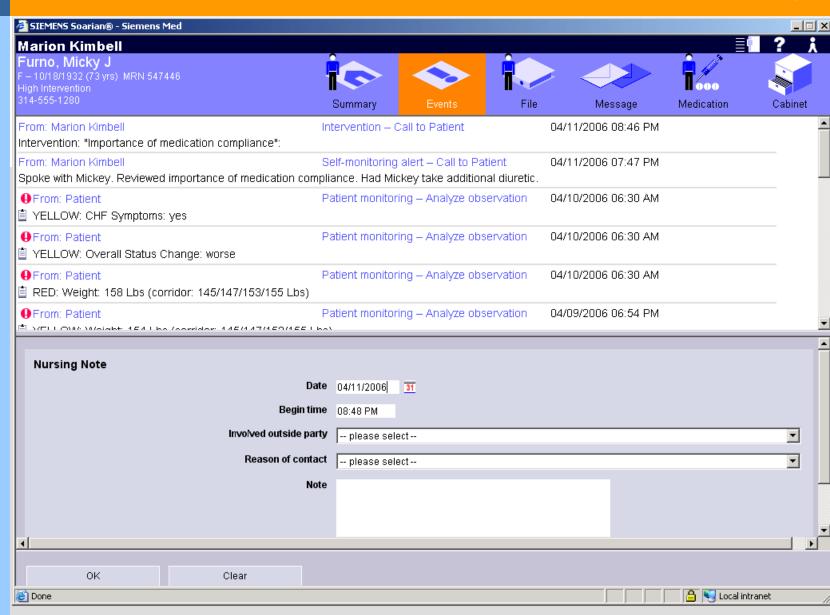
Problems and Interventions

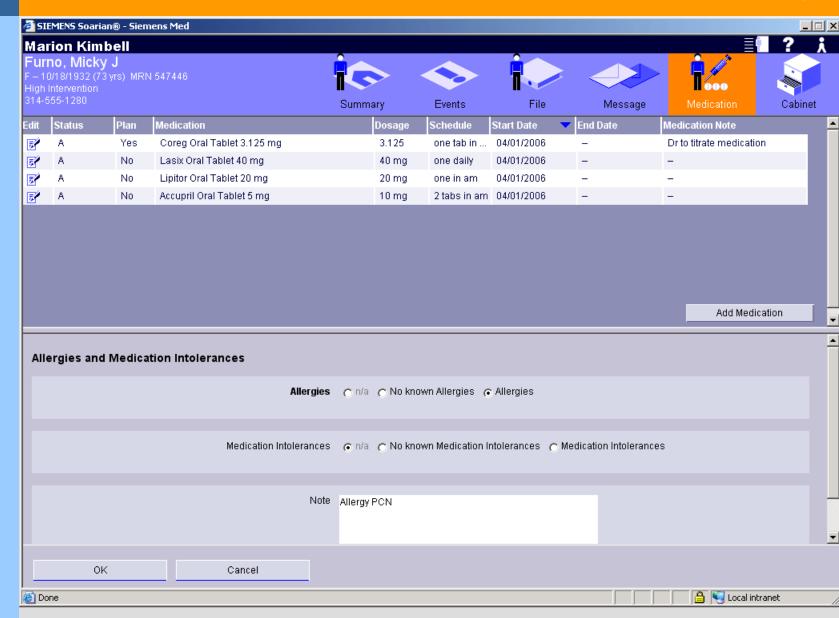
Active Problems: Knowledge Deficit: Signs and symptoms of CHF; Knowledge Deficit: Low Na diet restriction; Knowledge Deficit: Medications; Compliance: Medications; Complia Daily weight:

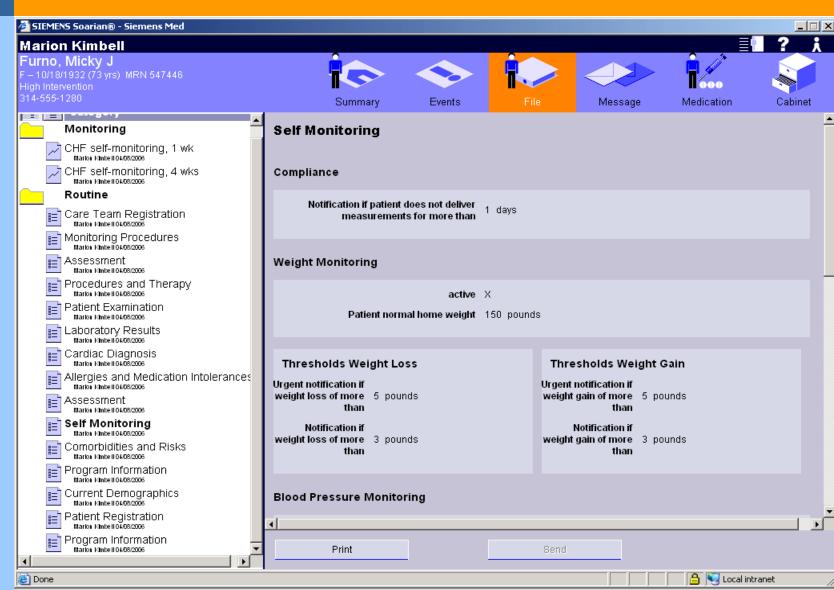
Pending Interventions: Instruct Patient and/or Caregiver: Signs and Symptoms of CHF and when to contact the MD/Nurse/911; Instruct Patient and/or Caregiver: Importance of medication compliance; Instruct Patient and/or Caregiver: Importance of daily weight monitoring;

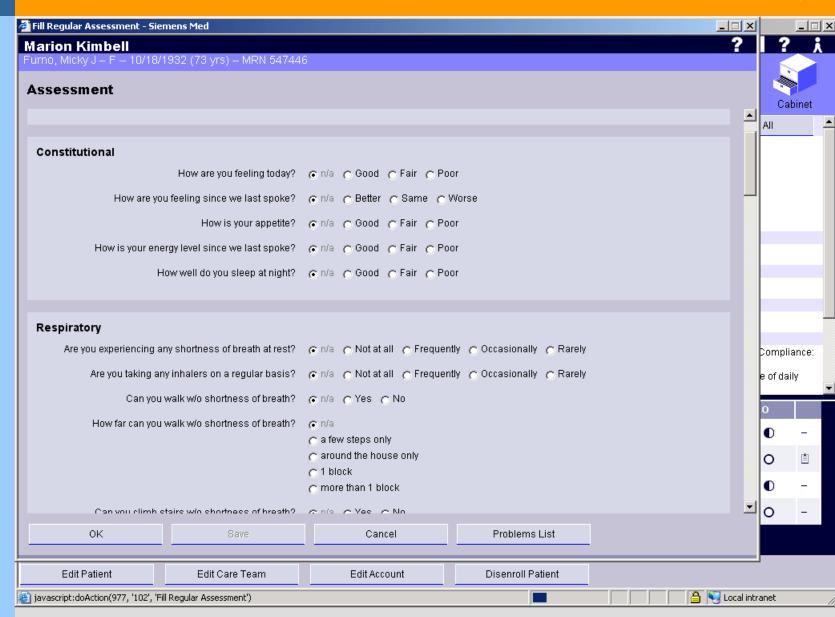
	1 🔺	Task	Due Date	Responsible	Planned Time	0	
5	0	Importance of medication compliance	04/11/2006	Marion Kimbell	(04/11)	0	-
5	0	Red: 1, Yellow: 2	04/10/2006	Marion Kimbell	-	0	-
5	!	Signs and Symptoms of CHF and when to contact the MD/Nurse/911	04/11/2006	Marion Kimbell	(04/11)	0	
5		Fill Regular Assessment	05/08/2006	Marion Kimbell	-	0	-
5		mportance of daily weight monitoring	04/10/2006	Marion Kimbell	(04/10)	0	-
Edit Patient Edit Care Team Edit Account Disenroll Patient							
© Done						ranet	

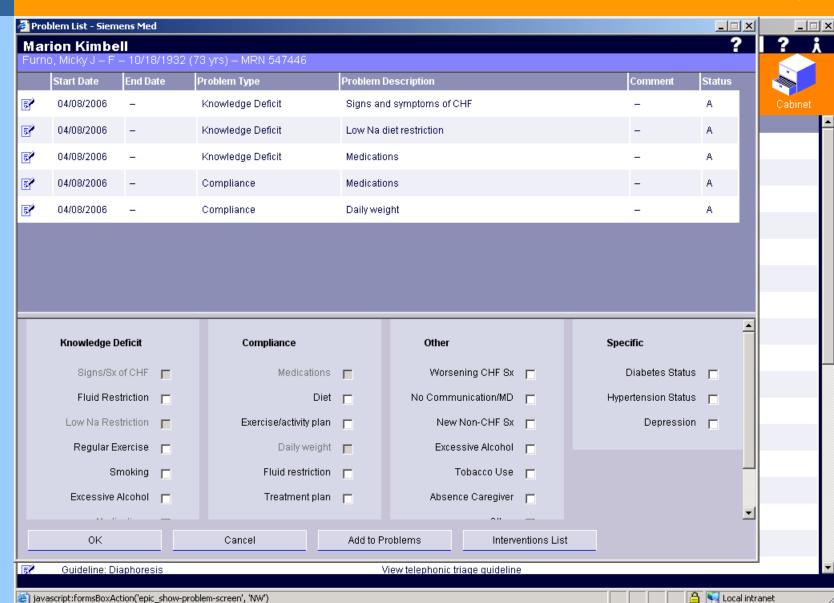


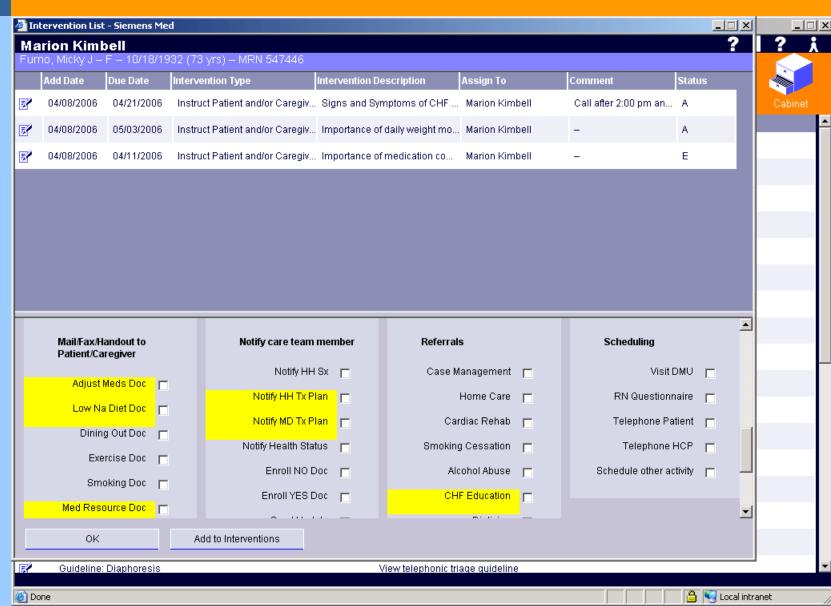












Potential Impact of Disease Management Programs

Reduce Negative Financial Impact

of treating chronic ill patients by reducing Admission LOS and ER visits

Optimize Resources

by freeing up valuable resources for higher reimbursable procedures

Improve Quality of Care

by delivering better care to at risk patients

Improve Patient Affinity

by keeping valuable patients tied to your organization

Prepare for Future Revenue

anticipate reimbursement for disease management services (CMS)



Questions?