

Core Measure Success- Acute Myocardial Infarction Care

**Presentation to the Wisconsin
Drug Utilization Board**



June 6, 2007





Purpose

- To share Gundersen Lutheran's journey to consistent high quality care for our Acute Myocardial Infarction (AMI) patients



Background History

- 1994 Gundersen Lutheran's AMI mortality was not where we wanted it to be
 - “Why are people dying?”
 - Retrospective review of all AMI deaths
 - Conclusion: “sick people die” – no pattern
- ACC/AHA published guideline for AMI care (150 pages!)
 - **“Are we doing what is best for our patients?”**



Background History

- New Purpose: Improve each phase of care for our AMI patients and provide AMI guideline care in a standardized manner
 - Flowcharted current process for
 - ◆ Pre – Hospitalization
 - ◆ Emergency Room
 - ◆ Cath Lab
 - ◆ Coronary Care Unit
 - ◆ 6West - Telemetry/Discharge
 - Flowcharted the ideal process with the ACC/AHA guideline as our “guide”

Background History (cont)



- Utilized a multidisciplinary team
- Developed a culture of ownership
- Used a system approach, reporting aggregate data—never reporting individual provider data



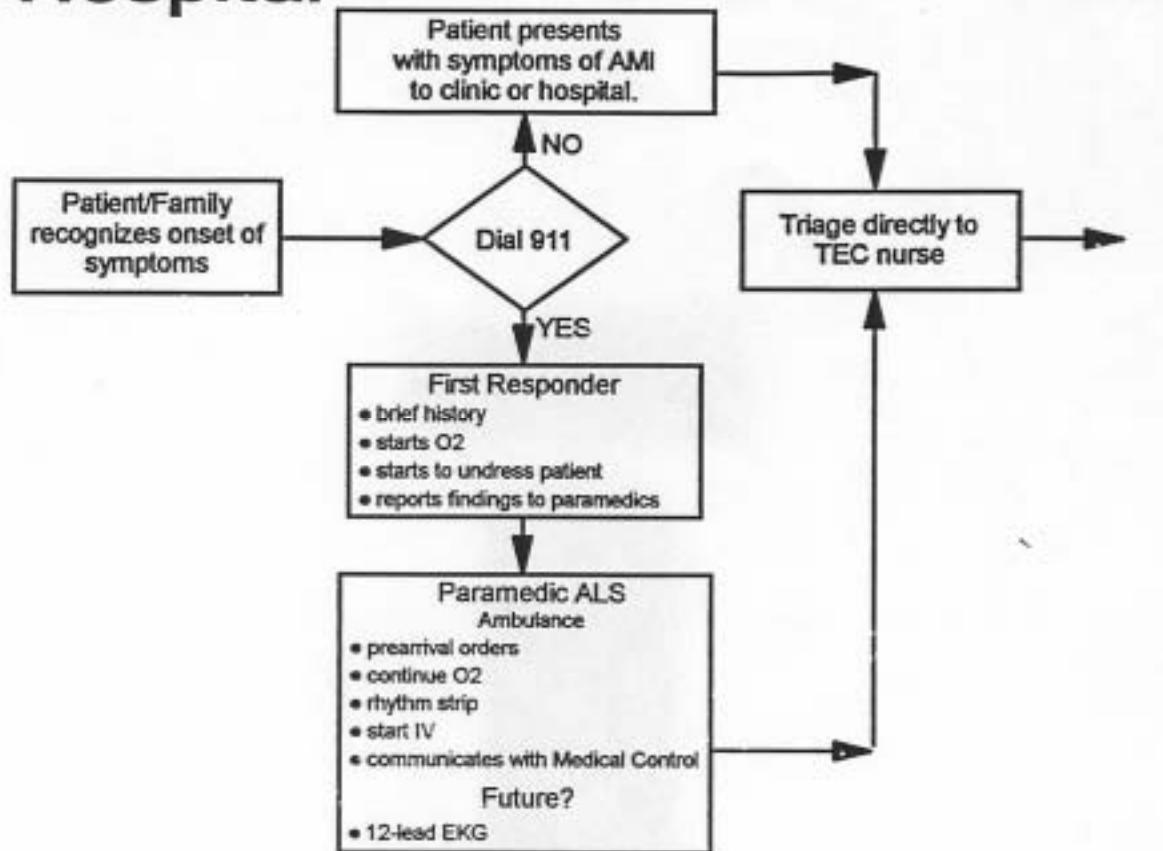
Changes Made

- Pre Hospitalization
 - Developed Check List
 - ◆ Begin screening and documentation
 - ◆ Allergies, IV, O2, screening questions, candidate for thrombolytics
- Emergency Department
 - Developed Standing Orders that empowered the nurse in ER to initiate care immediately
 - ◆ Stat EKG, O2, IV's
 - ◆ EKG done in less than 5 minutes

Pre-Hospital Flowchart



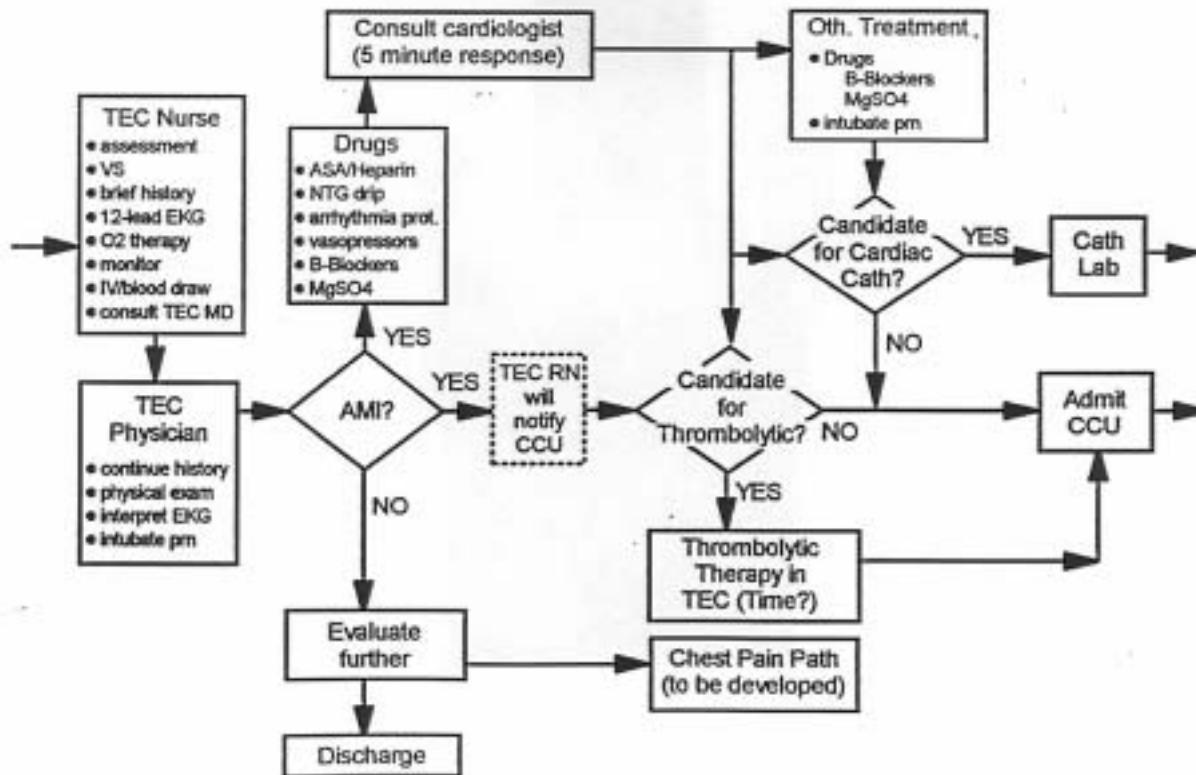
Pre-Hospital



Emergency Room Flowchart



1st Hour - TEC (Times?)



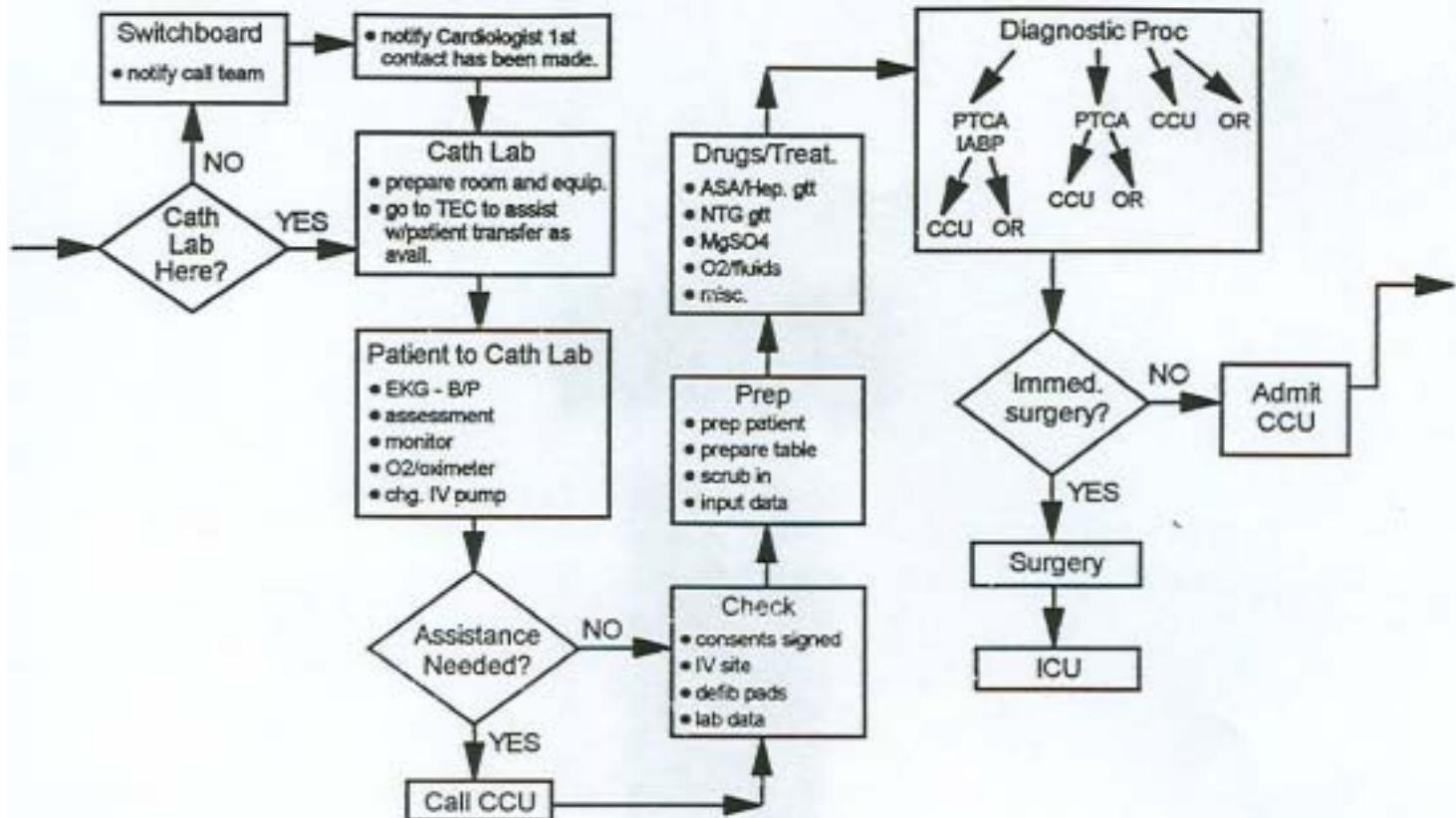


Changes Made

- Cath Lab
 - Reviewed Cath Lab process and eliminated extra, unnecessary steps
 - Cath Lab RN assist in ER as needed with medications and transport

Cath Lab Flowchart

Cardiac Cath Lab



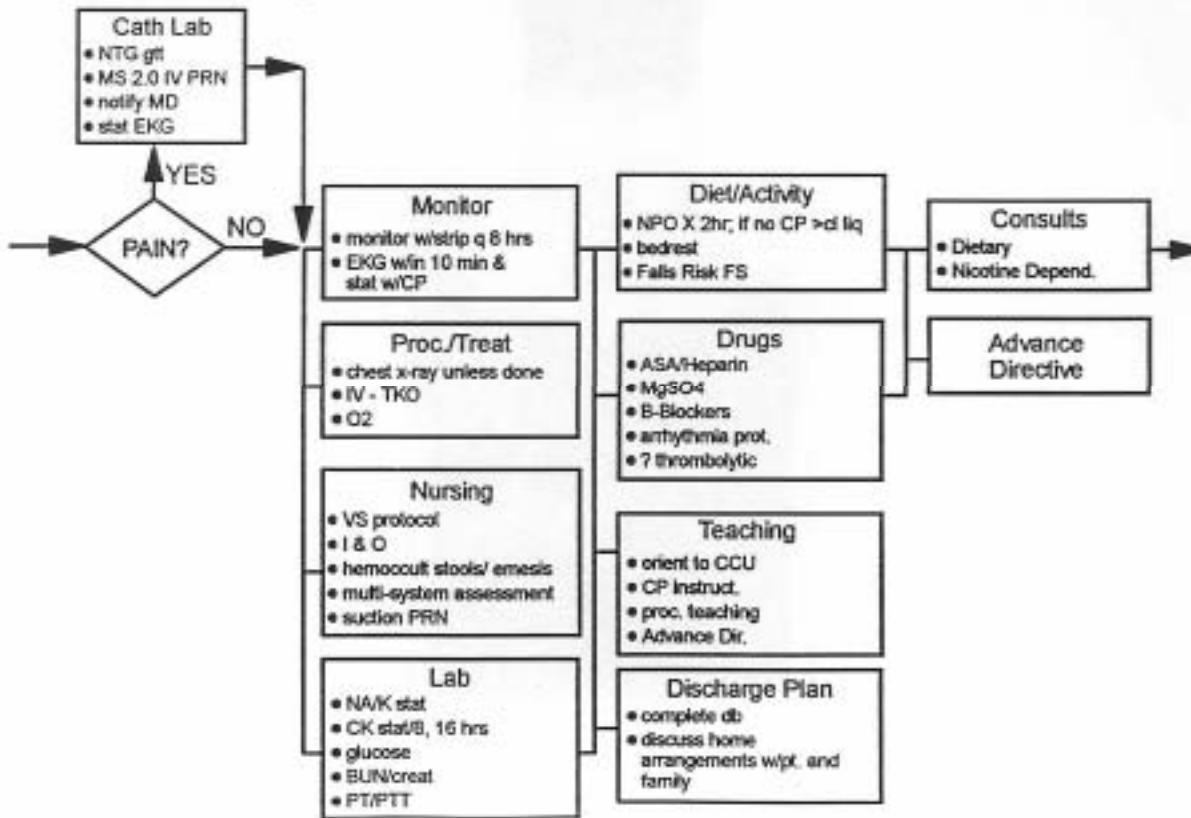


Changes Made

- Coronary Care Unit (CCU)
 - Pre-Printed admission orders that follow the guideline for MI patients.
 - Triggers for the provider to follow the standard of care
 - Empowered RNs

CCU Flowchart

CCU - Day1



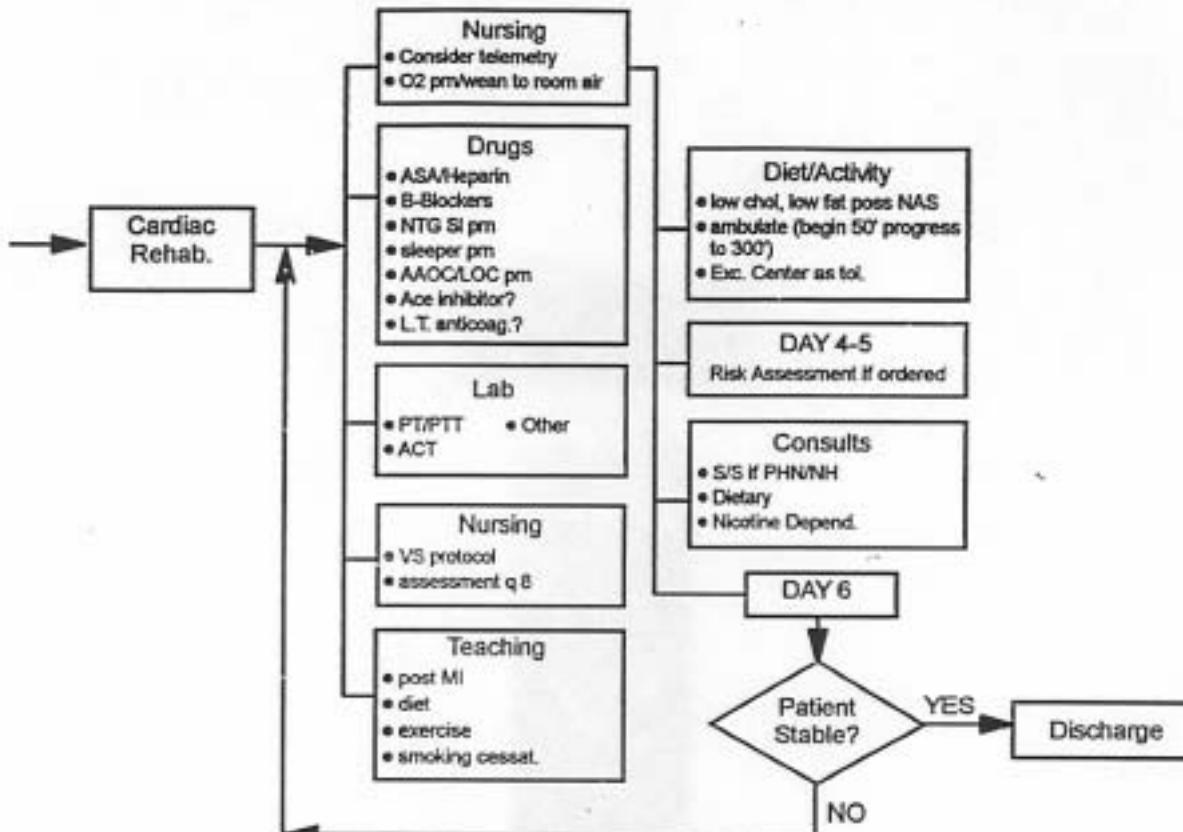


Changes Made

- 6 West - Telemetry/Discharge
 - Standardized our teaching materials
 - Developed binders of information for our patients
 - Information is multidisciplinary
 - Standardized where to document our instructions

6West Flowchart

Cardiac Rehab - Day 3-6



Addressograph or Patient Name and Medical Record Number

Gundersen
Lutheran
1900 South Avenue, La Crosse, WI 54601

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Lutheran.

(FORM #209)

ACUTE MYOCARDIAL INFARCTION (AMI)
PROTOCOL - ADMISSION

DATE: _____ TIME: _____

** Medications listed on this order are per the usual and standards of care for the diagnosis or condition this order represents. **

If all orders apply, sign the bottom.

If a specific order does not apply, draw single line through with your initials.

If multiple options exist, box must be checked.

Blank spaces must be completed.

1. Admit as inpatient to CCU.

2. Admit to _____ Service

3. Allergies:

4. Aspirin: Yes Dose: _____ once daily

If patient unable to take oral, give aspirin by suppository.

No Rationale: Definite Aspirin Allergy

Abdominal/GI Bleed

Bleeding Diathesis

Hemorrhagic CVA

Active Ulcer

Other: _____

5. Heparin: Yes-Complete "Heparin Protocol Orders for Cardiac Conditions"

Other: _____

No Rationale: Heparin Reaction

Hemorrhagic CVA

Hx bleeding disorder

Platelets < 100

Hemorrhage-admit day

Rectal bleeding

Current GI bleed

Other: _____

6. Reperfusion Strategy:

a) Thrombolytic: Yes Type: Tenecteplase Protocol

Study Protocol _____

Other: _____

Continued...



(FORM #209)

**ACUTE MYOCARDIAL INFARCTION (AMI)
PROTOCOL – ADMISSION**

Page 2

6. Reperfusion Strategy: (Continued)

- No Rationale: _____ Thrombolytic already given
 _____ No ECG changes
 _____ > 12 hours of pain
 _____ Abd/GI Bleed
 _____ Active Ulcer Disease
 _____ History Hemorrhagic CVA
 _____ Surgery past 2 months
 _____ History CVA within 1 year
 _____ Recent Trauma
 _____ Rectal Bleed
 _____ R/O Aortic Dissection
 _____ History Hemorrhage in eye
 _____ History Bleeding Disorder
 _____ Other: _____

b) Emergency Cardiac Cath: _____ Yes* _____ No

*If yes, complete and sign HC orders.

7. Risk Assessment:

a) LV evaluation _____ Yes _____ No If yes, Type _____ Date _____

b) Non-emergent cardiac catheterization: _____ Yes _____ No

If yes, date: _____

If yes, complete and sign cardiac cath orders.

8. Beta Blocker: _____ Yes Drug/Dose: _____

 No Rationale: _____

- _____ Heart Block
 _____ SBP <100mmHg
 _____ Cardiogenic shock
 _____ Pulse < 50 beats per minute
 _____ Congestive Heart Failure
 _____ Other: _____

9. Nitroglycerin drip:

 Yes-Dose: _____ mcg/kg/minute. Titrate to keep systolic BP between _____ and _____ and pain free No-Rationale: _____ Shock/hypotension first 24 hour Patient has taken Phosphodiesterase 5 inhibitor (Viagra or class related agent) in past 24 hours Other: _____

Continued...



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ACUTE MYOCARDIAL INFARCTION (AMI)
PROTOCOL - ADMISSION

Page 3

10. One or two large bore plastic cannulas.
11. Intravenous (IV) Fluids:
12. Arrhythmia Protocol: Yes* No *If yes, complete and sign attached orders.
13. Ace Inhibitor:
 Yes Drug / Dose: _____
 No Rationale: _____ Ejection Fraction > 40%, no evidence of heart failure or hypertension

On Angiotension Receptor Blocker

Aortic Stenosis

Allergy to an ace inhibitor

Bilateral renal artery stenosis

Hypotension

Hyperkalemia

Renal Dysfunction

Angioedema

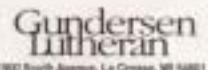
Other: _____
14. Lipid Lowering Agent:
15. Acetaminophen 325-650 mg by mouth every 4 hours as needed for pain. (Maximum 4000 mg/24 hours)
16. Sedation:
17. Sleepers:
18. LOC (Laxative of choice) by mouth, as needed for constipation.
19. AAOC (Antacid of choice) by mouth, as needed for indigestion.
20. Docusate Calcium 240 mg by mouth once daily, as needed for constipation.
21. Other medications:

22. Chest PA Portable (if not already done)
23. Cardiology consult.
24. ECG:
 - a. On admit to CCU unless done at Gundersen Lutheran within 4 hours
 - b. Daily times _____ days
 - c. Thrombolytic given? YES - If yes, repeat ECG in 6 hours
 NO
 - d. Repeat EKG with right chest leads if inferior wall myocardial infarction

Continued...



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**ACUTE MYOCARDIAL INFARCTION (AMI)
PROTOCOL - ADMISSION**

Page 4

25. Lab Protocol:

- INR, PTT (if not already done).
- Hemogram once daily times 48 hours.
- Creatinine, K+, Glucose (if not already done)
- Troponin-Baseline on admission and in 9-12 hours.
- Blood Bank - Draw and hold.
- UA (if not already done)
- Fasting LPA.
- Hgb A1C if diabetic.
- Platelets on admission and in 48 hours.
- Other:

26. Activity:

- Bed rest while patient experiencing angina; then may be up to commode after being pain free for 2 hours.
- Advance activity as tolerated after being pain free for 2 hours
- Other:

27. Courtesy Notification: Dr. _____

SIGNATURE: _____

Revised: August 2004



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(FORM #208)

CCU STANDING ORDERS

DATE: _____ TIME: _____ ALLERGIES: _____

** Medications listed on this order are per the usual and standards of care for the diagnosis or condition this order represents. **

If all orders apply, sign the bottom.

If a specific order does not apply, draw single line through with your initials.

If multiple options exist, box must be checked.

Blank spaces must be completed.

1. Vital Signs: Blood pressure, heart rate and respiratory rate once every 15 minutes until stable, then once every 2-4 hours if remains stable. May allow to sleep 2200-0600 if stable. Document heart rate and respiratory rate every 2 hours, temperature every 8 hours, every 4 hours if > 38.0 degrees Celsius.
2. Activity: Bed rest with bedside commode.
3. ECG monitor w/strip analysis every 8 hours and as needed.
4. Multi-system assessment per CCU Standards.
5. Daily Weight.
6. Input and Output every 12 hours. (Every 1 hour if on urimeter)
7. Suction at bedside.
8. Teaching:
 - a) Orient to Unit on admission.
 - b) Bill of Rights
 - c) Advance Care Planning - Initiate/review.
 - d) Standard precautions.
 - e) Other teaching as appropriate; i.e. Diet, Activity, Social Services, Patient Education.
9. Consults: per functional screening form.
10. Diet: Nothing by mouth for 3 hours. If stable advance diet to low fat, low cholesterol, low salt. If the patient is diabetic, patient should also be on a carbohydrate controlled diet.
11. If sats < 90 start O₂ at 1-2L /minute. Titrate to keep sats ≥ 90. Notify MD if sats ≤ 90, on 4 L/nasal prongs.
12. ECG 12-lead stat with chest pain or ischemic equivalent - notify MD
13. Hypotension protocol: if symptomatic hypotension, begin infusion of 250 ml 0.9% sodium chloride (NS) at 250 ml/hour and notify MD immediately.
14. Insert 1 or 2, 16 or 18 gauge peripheral IV's. Hep lock according to protocol if capped



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(FORM #211)

ACUTE MYOCARDIAL INFARCTION (AMI)
PROTOCOL - TRANSFER ORDERS (6 West -
Cardiac Rehab)

DATE: _____ TIME: _____

** Medications listed on this order are per the usual and standards of care for the diagnosis or condition this order represents. **

If all orders apply, sign the bottom.

If a specific order does not apply, draw single line through with your initials.

If multiple options exist, box must be checked.

Blank spaces must be completed.

1. Transfer to:
2. Telemetry Monitor: Complete and sign 6-West Telemetry Monitoring Orders and Arrhythmia Protocol.
3. Cardiac Rehab: _____ or PT Evaluation: _____ If Neither, Why: _____
4. Arranges left ventricular evaluation (if not already done)

Type: _____ Date: _____

5. Risk Assessment Scheduled. If not, why: _____
- a) Schedule GXT Date: _____

Type: _____ Regular _____ ECHO _____ Nuclear

- b) Cardiac Cath: Complete and sign Cardiac Cath Orders

6. Allergies: _____

7. Code Status: _____

8. Medications:

- a. Enteric-coated aspirin: Yes Dose: _____ daily
 No Why: _____ Aspirin Allergy

Ahd/GI Bleed

Bleeding Diathesis

Hemorrhagic CVA

Active Ulcer

Misc: _____

- b. Heparin: Yes Continue Heparin Infusion @ _____ units/hour per CCU/6W Heparin Protocol

or _____

No Why: _____ Heparin Reaction

Hemorrhagic CVA

Hx bleeding disorder

Platelets <= 100

Hemorrhage-admit day

Rectal bleeding

Current GI bleed

Misc: _____

Continued...

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(FORM #211)

ACUTE MYOCARDIAL INFARCTION (AMI)
PROTOCOL - TRANSFER ORDERS (6 West -
Cardiac Rehab)

Page 2

c. Beta Blocker: Yes Drug/Dose: _____
No Why: _____ Heart Block

- _____ Cardiogenic shock
- _____ CHF on Beta Blocker
- _____ SBP <100mmHg
- _____ Brady w/tropine
- _____ Pulse <50
- _____ COPD
- _____ Miss:

d. ACE Inhibitor: Yes Drug/Dose: _____
No Why: _____ Ace Inhibitor Intolerance

- _____ Aortic stenosis
- _____ SBP <100mmHg
- _____ Hypotension or shock while on ACE inhibitor
- _____ Creatinine > 2.0mm/dL
- _____ Miss:

e. Warfarin dose: _____
f. Clopidogrel 75 mg every day by mouth: Yes _____ No _____

g. Nitroglycerin Oral or Topical Drug/Dose: _____

h. Bupropion SR 150mg daily for 3 days by mouth then 150 mg two times a day for smoking cessation.
Yes _____ No _____ If nicotine dependent and willing to quit within 2 weeks.

i. H2 Blocker Drug/Dose: _____

j. Lipid Lowering Agent: _____

k. Nitroglycerin sublingual 0.4 mg every 5 minutes times 3 as needed for chest pain if blood pressure
>100mmHg. Notify physician if used.

l. Acetaminophen 325-650 mg by mouth every 4 hours as needed for pain. (Maximum of 4000mg/24 hours)

m. Laxative of choice for constipation.

n. Antacid of choice for indigestion.

o. Docusate Calcium 240 mg by mouth once daily as needed for constipation.

p. Sedation: _____

q. Sleepers: _____

r. Other: _____

9. Lab Protocol: _____ Heparin Protocol

INR, if on Coumadin
Other: _____

Revised: April 2004

SIGNATURE: _____

Under Authorization from the P & T Committee another generally equivalent drug (identical in form and content) may be substituted for the drug ordered.

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This review was last will reviewed _____



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(FORM #193)

6-WEST STANDING ORDERS

DATE: _____ TIME: _____ ALLERGIES: _____

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Blank spaces must be completed.

1. Telemetry: NO YES (Complete 6-West Telemetry Protocol).
2. Vital signs once every 8 hour shift if not otherwise ordered. May allow to sleep 2200-0600 if stable.
3. Activity:
 - a) Ambulate as tolerated to independence.
Record distance and tolerance on 48 hour flow sheet.
 - b) Other: _____
4. Diet: Low fat, low cholesterol, and no salt packet. Carbohydrate controlled if diabetic or diet per dietitian
5. Daily weight: YES NO
6. Ins and Outs one time per shift YES NO
7. Instruct patient to notify nursing staff of any chest discomfort or ischemic symptoms.
8. 12-Lead ECG STAT chest pain/discomfort and notify MD.
9. O₂ saturation STAT for shortness of breath.
10. Nicotine: If patient uses tobacco products or quit within the last year, give informational packet.
11. Initiate Tobacco Cessation Pharmacotherapy Protocol: Yes No (See order sheet)
12. Medications:
 - a) Antacid of choice: _____
 - b) Laxative of choice: _____
 - c) Sleep: _____
 - d) Acetaminophen 325-650 mg orally every four hours as needed for pain or elevated temperature. (Do not exceed 4000 mg/24 hours)
 - e) Anxiety: _____
 - f) Nitroglycerin 0.4 mg sublingual as needed for chest pain or ischemic symptoms.

DISCHARGE PLANNING

Anticipated Discharge: 2-4 days 5-8 days 9-12 days Other

DATE/TIME ORDERED: _____

Continued...

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Normal Sinus Rhythm



Paced Rhythm

(FORM # 021)

↓ Imprint Patient's Name Here ↓

PATIENT NAME
CLINIC NUMBER

DATE AND TIME ORDERED: PLEASE WRITE MEDICATION ORDERS BETWEEN THE DASHED LINES

CARDIOVASCULAR DISCHARGE ORDERS

DATE: _____
DIAGNOSIS: _____

1. Appointments:

- a. Physician: _____ at _____
- Physician: _____ at _____
- b. Cardiology Nurse Clinician for Risk Factor Reduction Clinic: _____ at _____
- c. Phase II Cardiac Rehab at _____
- Direct Referral YES _____ NO _____

- OR -

d. Specific Appointments:

- Exercise Physiology YES at _____ NO _____
- for evaluation and consult (time) _____
- Nutrition Clinic YES at _____ NO _____
- (time) _____
- Diabetes Education YES at _____ NO _____
- (time) _____

e. Labs:

- Lipoprotein analysis @ _____ weeks.
- BGOT @ _____ weeks
- INR on _____ draw @ _____
- Report to _____
- Other: _____

2. Risk Factors Addressed:

- a. Smoking cessation YES _____ NO _____ N/A _____
- b. Physical activity/exercise YES _____ NO _____ N/A _____
- c. Diet YES _____ NO _____ N/A _____
- d. Hypertension YES _____ NO _____ N/A _____
- e. Diabetes YES _____ NO _____ N/A _____
- f. Stress YES _____ NO _____ N/A _____
- g. Postmenopausal YES _____ NO _____ N/A _____

3. Medications:

- a. ASA YES _____ NO _____
- b. Beta Blocker YES _____ NO _____
- c. ACE Inhibitor YES _____ NO _____
- d. Lipid Lowering Agent YES _____ NO _____
- e. Coumadin YES _____ NO _____
- f. Anti-Platelet Agent YES _____ NO _____
- g. Digoxin YES _____ NO _____
- h. NTG SL prn YES _____ NO _____
- i. Pre-Admission Meds Re-addressed YES _____ NO _____
- j. Pain Medications YES _____ NO _____

SIGNATURE: _____

Revised: October, 1998

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Addressograph or Patient Name and Medical Record Number

Gundersen
Lutheran
1900 South Avenue, La Crosse, WI 54601

(FORM #025)

ARRHYTHMIA PROTOCOL

DATE: _____ TIME: _____ ALLERGIES: _____

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Blank spaces must be completed.

1. Diagnosis and reason for monitoring: _____

2. Intravenous (IV) Orders:

- Intermittent needle, flush with normal saline 2.5 ml every 24 hours as needed.
- Other: _____

3. Protocol for Ventricular Arrhythmias: For sustained and/or symptomatic VT, call a code and arrange for immediate transfer to ICU or CCU (if patient is on a Med/Surg unit). Notify MD - STAT Cardiology consult.

4. Complex Arrhythmia Protocol: Notify MD.

- Ventricular Fibrillation/Pulseless VT: Call Code Blue. Immediately defibrillate and follow ACLS protocol.
- Pauses > 4 seconds or symptomatic bradycardia with ventricular rate ≤ 40, Atropine per ACLS protocol. May apply external pacing patches.
- Pulseless Electrical Activity: Call Code Blue. Begin CPR. Administer Epinephrine per ACLS protocol.
If heart rate < 60 beats/minute give Atropine per ACLS protocol.
- For a,b,c that occur, do STAT Na/K/Mg/Cw/ABG.

5. For sustained tachy- or brady- arrhythmias, STAT 12-lead EKG.

Revised: April 2004 SIGNATURE: _____

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Results

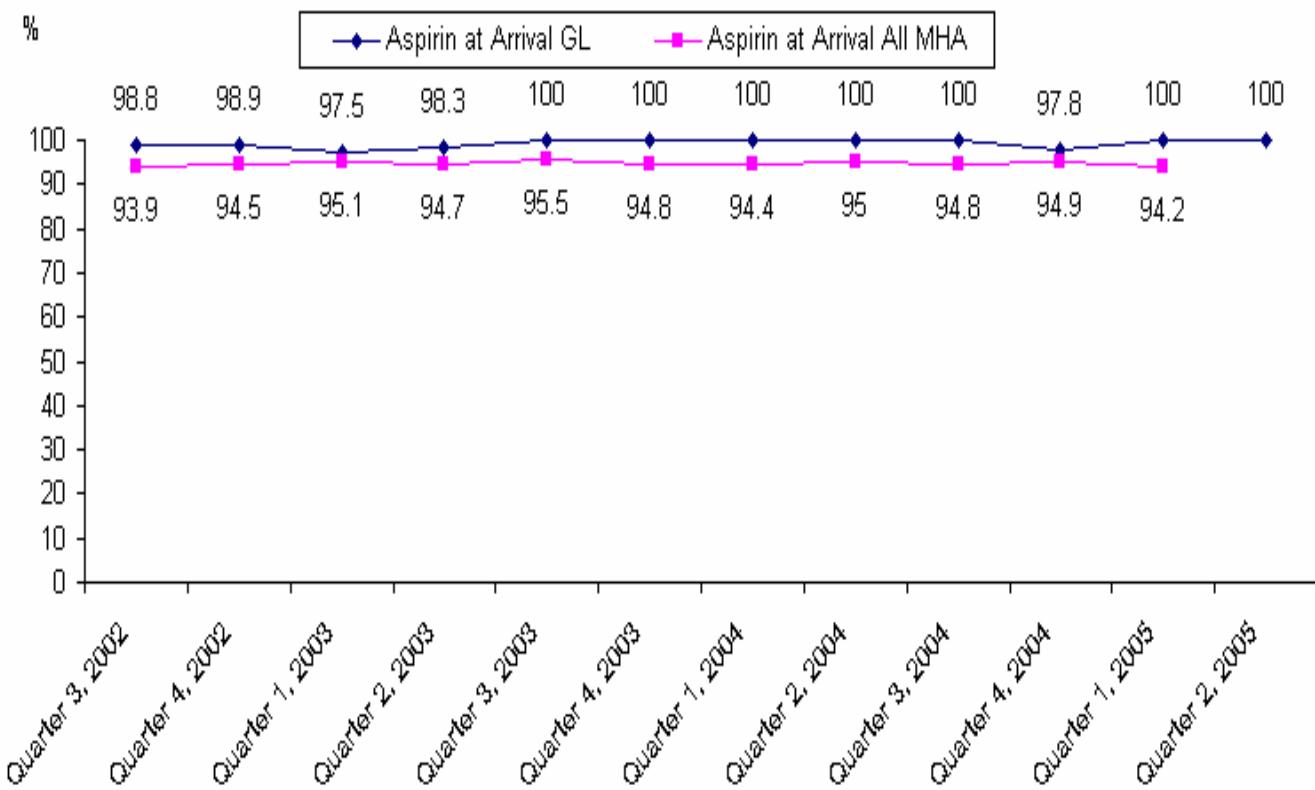
- AMI Care Path is embedded in our Standing Orders
- Incorporated concurrent review with immediate feedback to providers
- Developed education plan that is part of our resident program
- Review all outliers on a monthly basis



Results

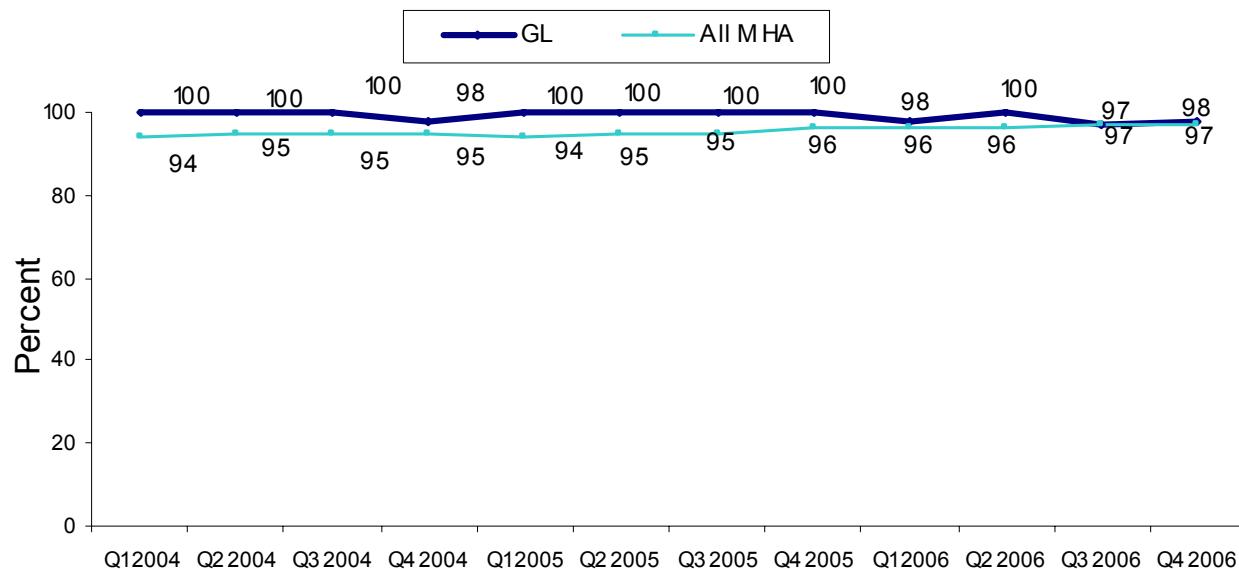
- 99+% compliance consistently
- We have embedded the process into the daily care of our AMI patients
- Our mortality rate from 1994 for AMI patients has decreased

Aspirin at Arrival





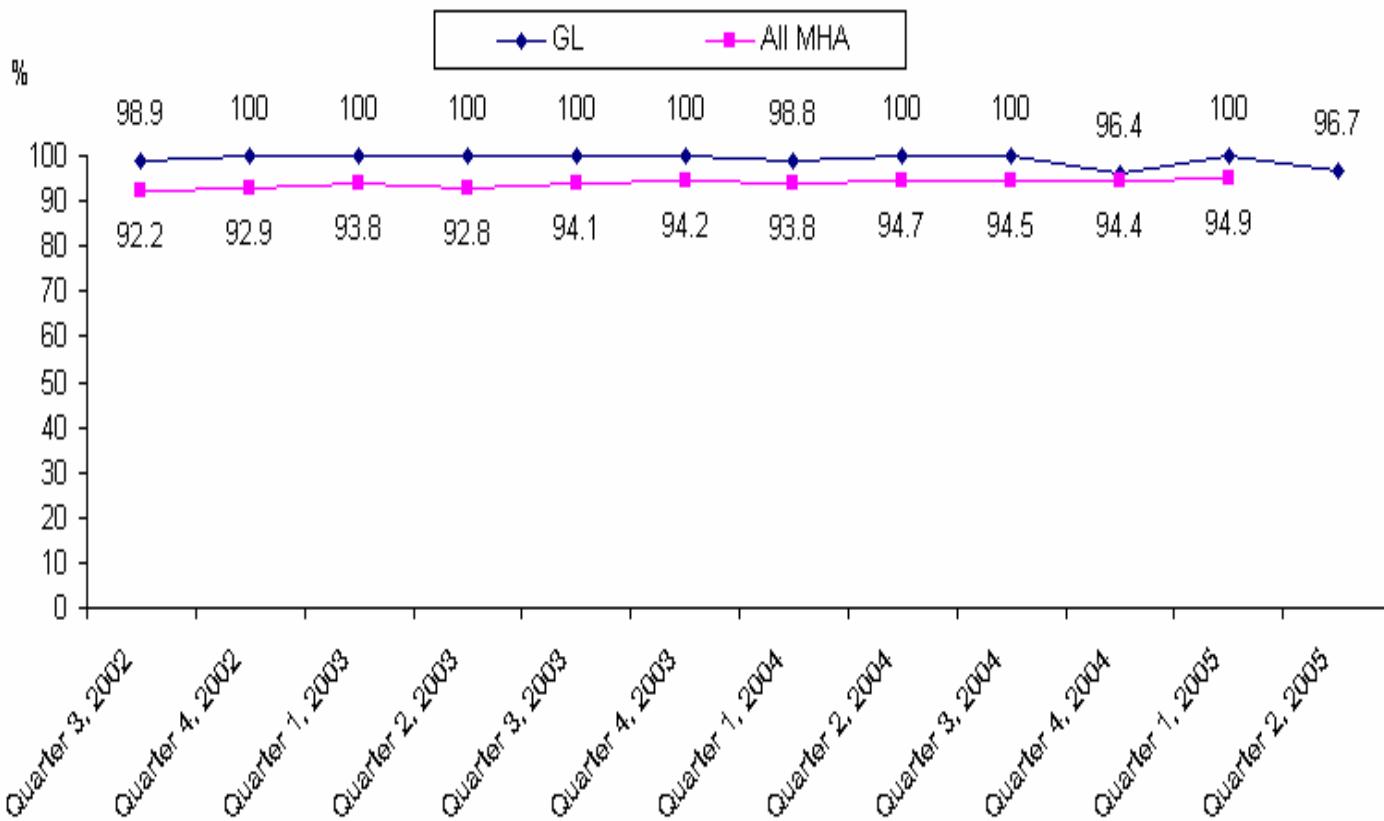
Gundersen Lutheran Aspirin within 24 Hrs of Arrival

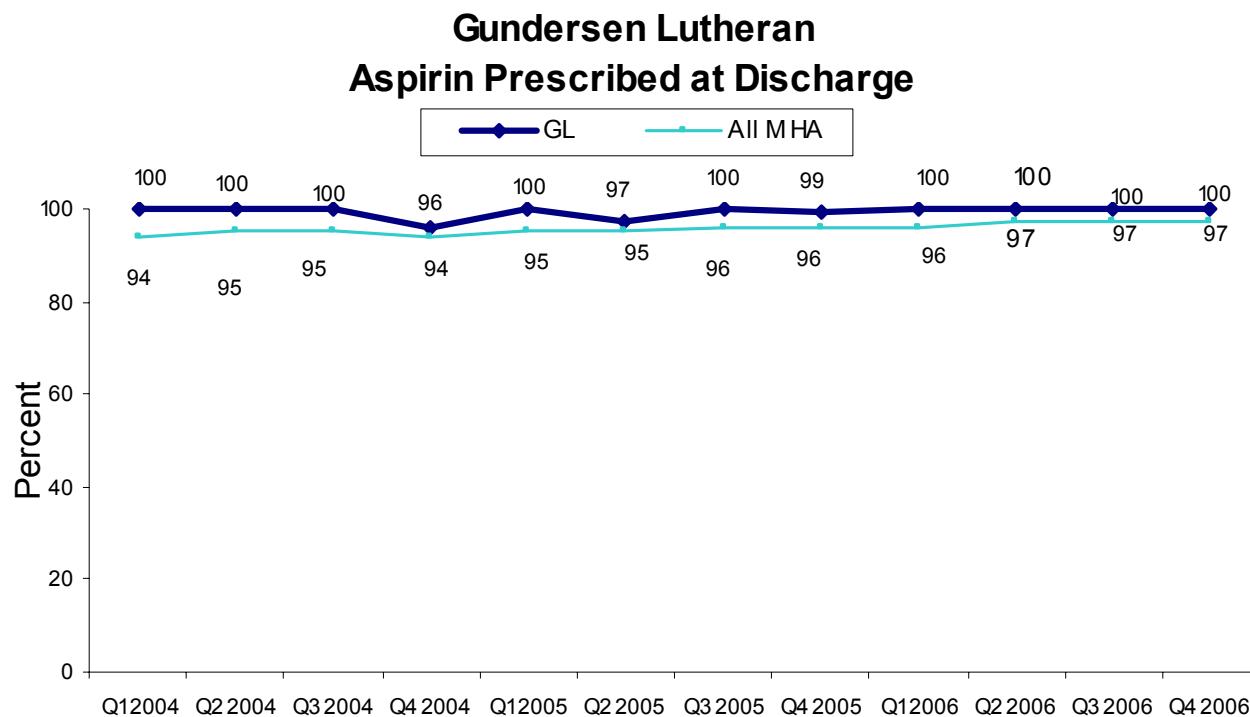


MHA - Maryland Hospital Association Numerator/Denominator per quarter

Q104 - 56/56 Q105 - 41/41 Q106 - 52/53
Q2 04 - 50/50 Q2 05 - 45/45 Q2 06 - 41/41
Q3 04 - 40/40 Q3 05 - 32/32 Q3 06 - 36/37
Q4 04 - 45/46 Q4 05 - 50/50 Q4 06 - 41/42

Aspirin At Discharge





MHA - Maryland Hospital Association Numerator/Denominator per quarter

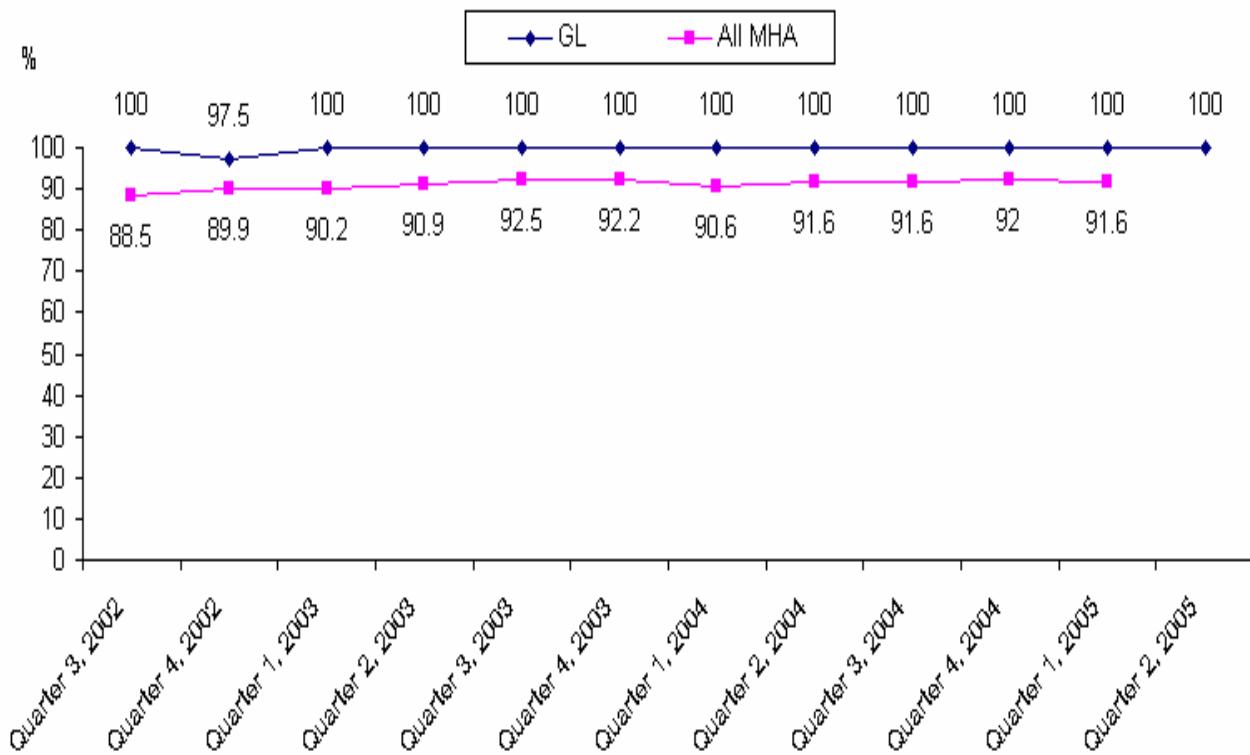
Q1 04 83/84 Q105 - 71/71 Q106 - 82/82

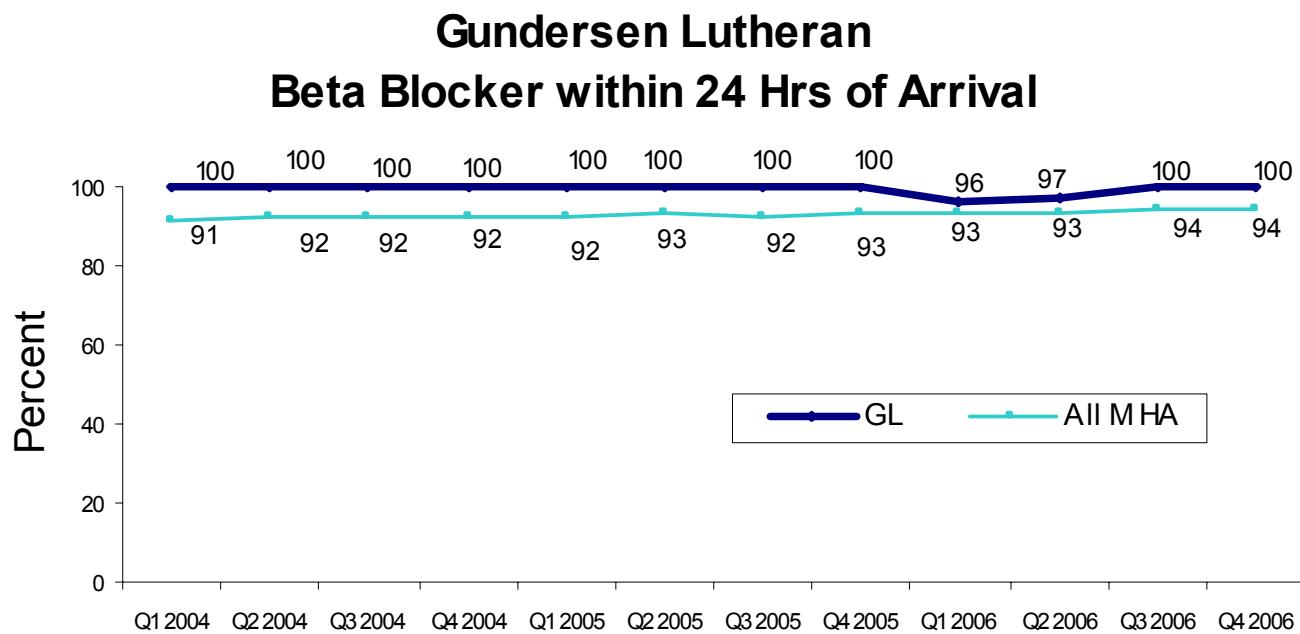
Q2 04 93/93 Q2 05 - 58/60 Q2 06 - 66/66

Q3 04 72/72 Q3 05 - 66/66 Q3 06 - 65/65

Q4 04 - 81/84 Q4 05 - 77/78 Q4 06 - 76/76

Beta Blocker at Arrival





Numerator/Denominator per quarter

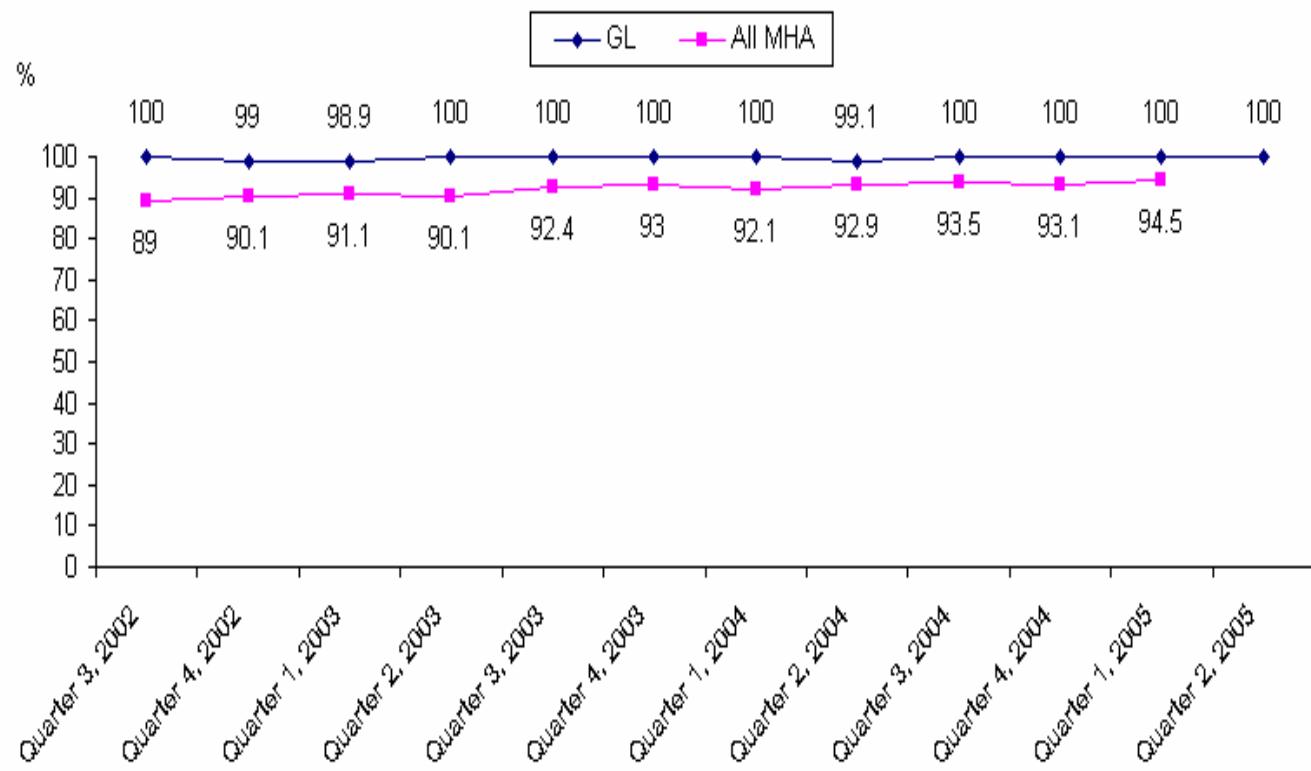
Q104 - 53/53 Q105 - 33/33 Q106 - 45/47

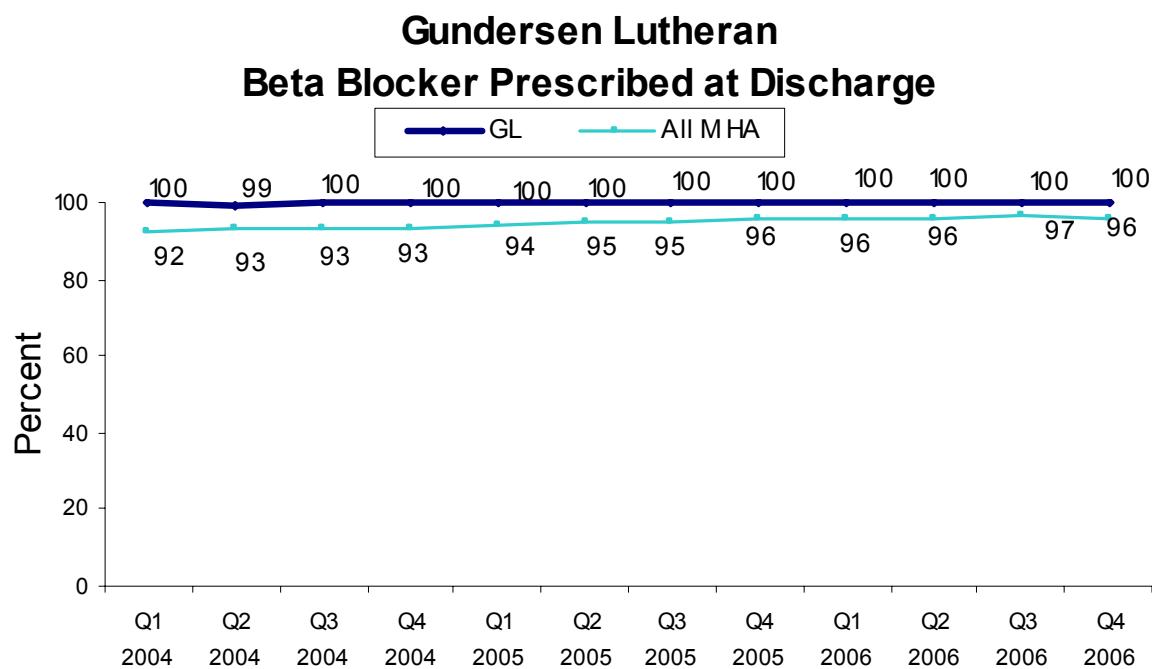
Q2 04 - 47/47 Q2 05 - 40/40 Q2 06 - 34/35

Q3 04 - 32/32 Q3 05 - 36/36 Q1306 - 23/23

Q4 04 - 43/43 Q405 - 36/36 Q4 06 - 30/30

Beta Blocker Prescribed at Discharge

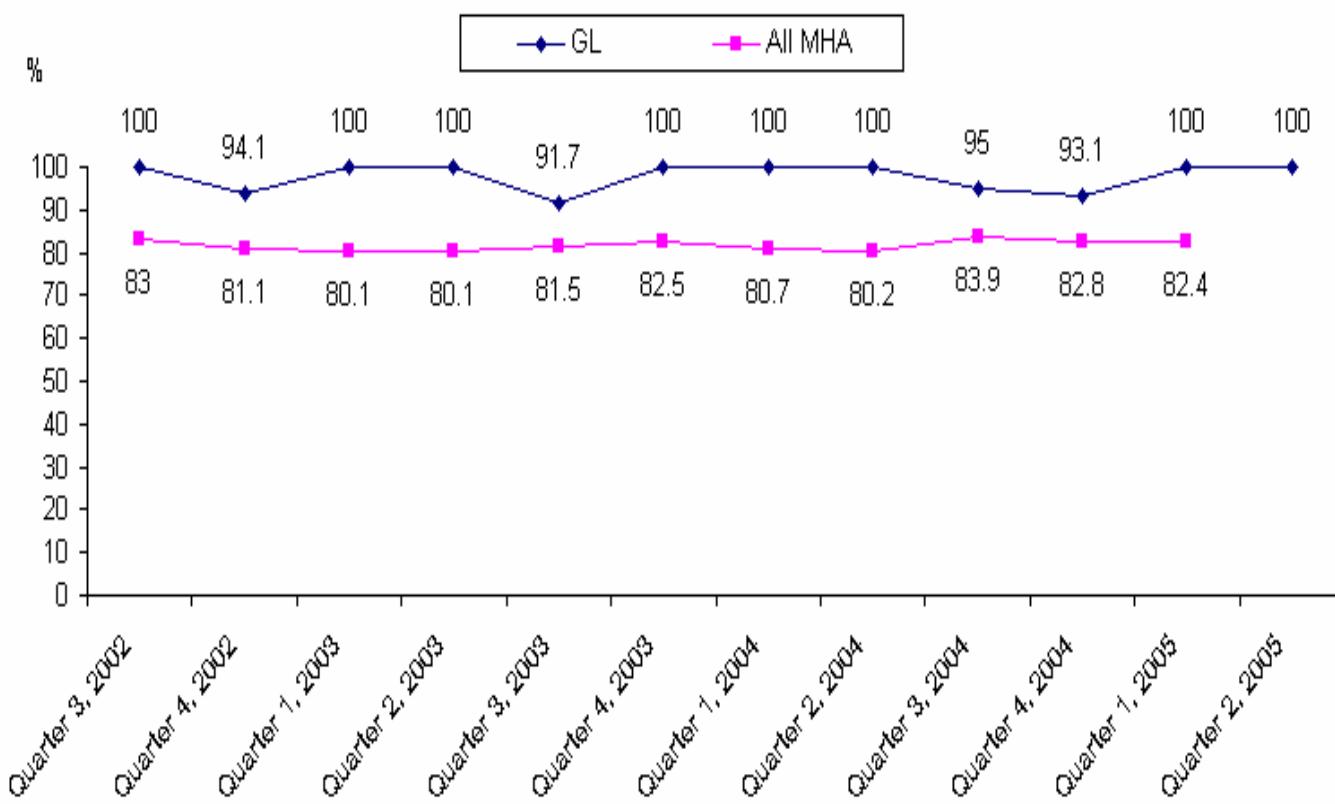


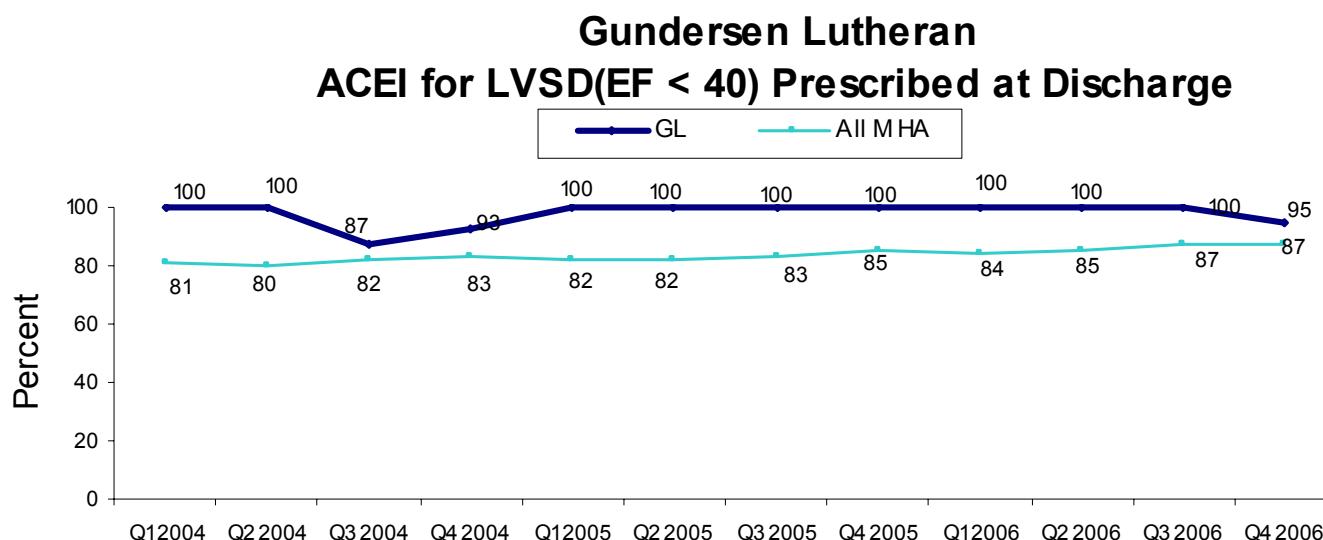


Numerator/ Denominator per quarter

Q104 - 84/84	Q105 - 81/81	Q106 - 101/101
Q2 04 110/111	Q2 05 - 71/71	Q106 - 80/80
Q3 04 - 87/87	Q3 05 - 76/76	Q106 - 81/81
Q4 04 - 96/96	Q405 - 94/94	Q106 - 104/104

ACEI for LVSD





MHA - Maryland Hospital Association Numerator/Denominator per quarter

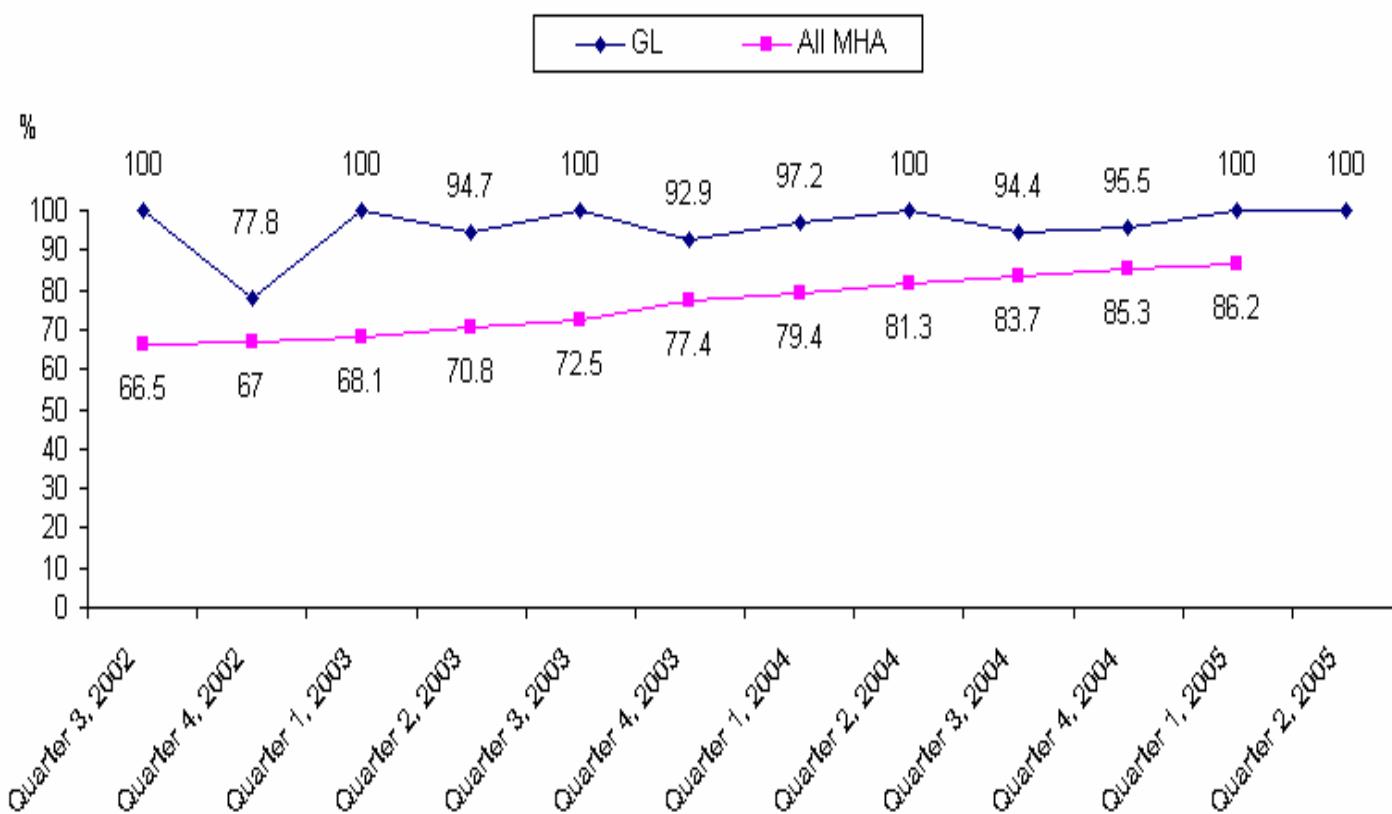
Q104 13/13 Q105 9/9 Q106 - 15/15

Q204 17/17 Q205 12/12 Q106 - 11/11

Q304 20/23 Q305 22/22 Q106 - 15/15

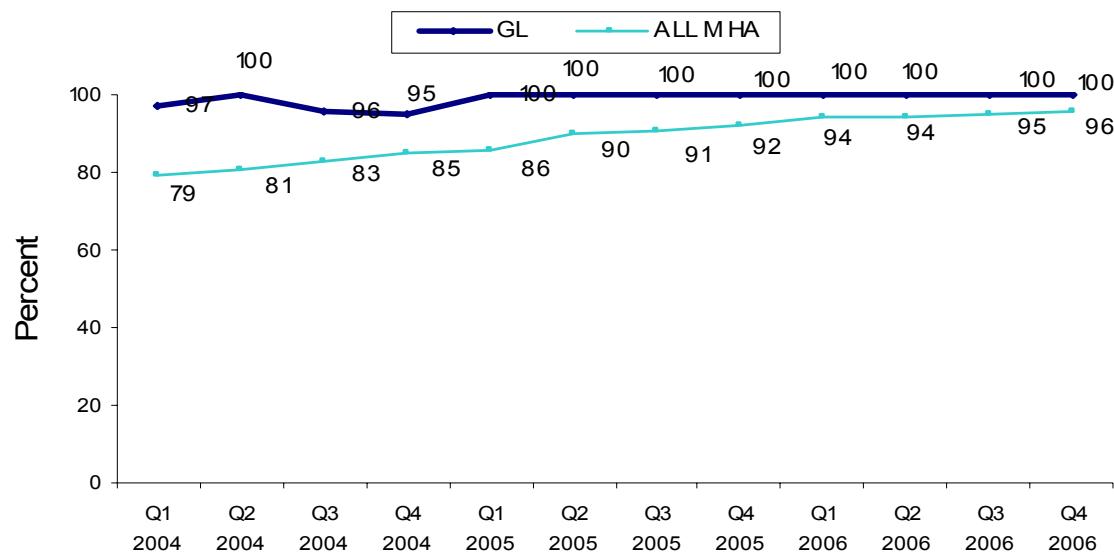
Q404 27/29 Q405 - 15/15 Q106 - 18/19

Adult Smoking Cessation Advice/Counseling





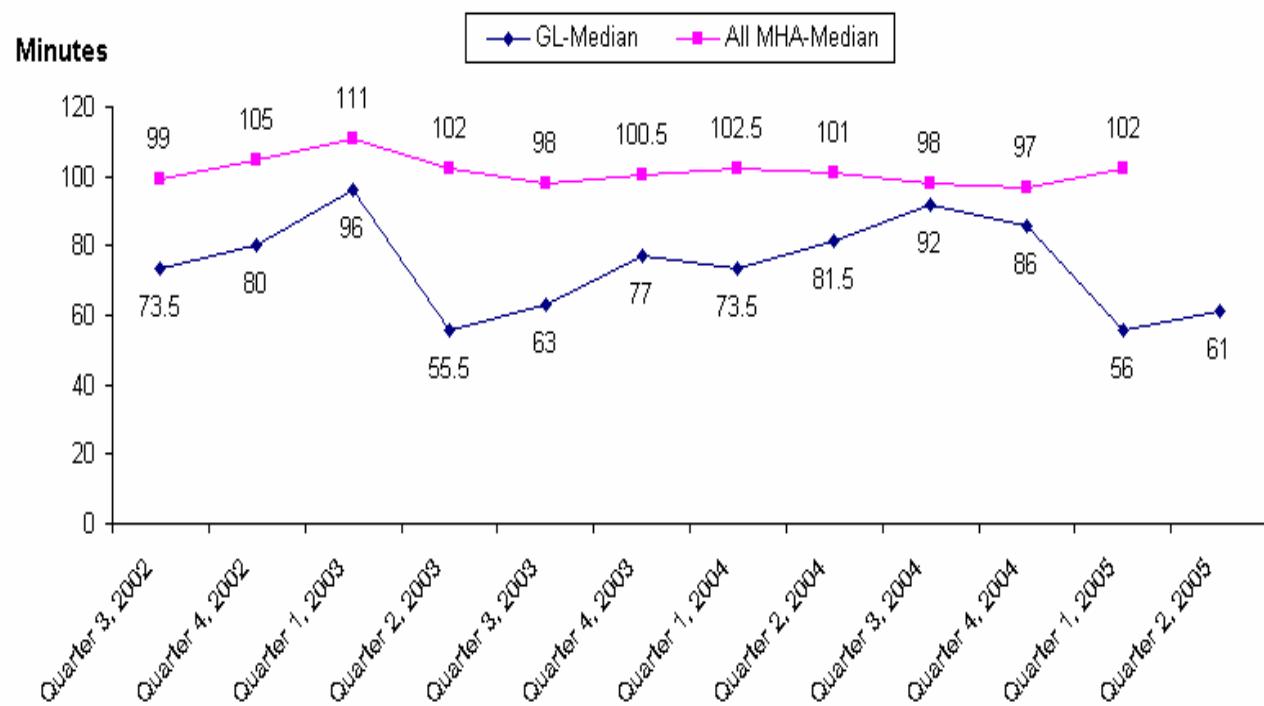
Gundersen Lutheran Adult Smoking Cessation Advice/Counseling



Numerator/Denominator per quarter

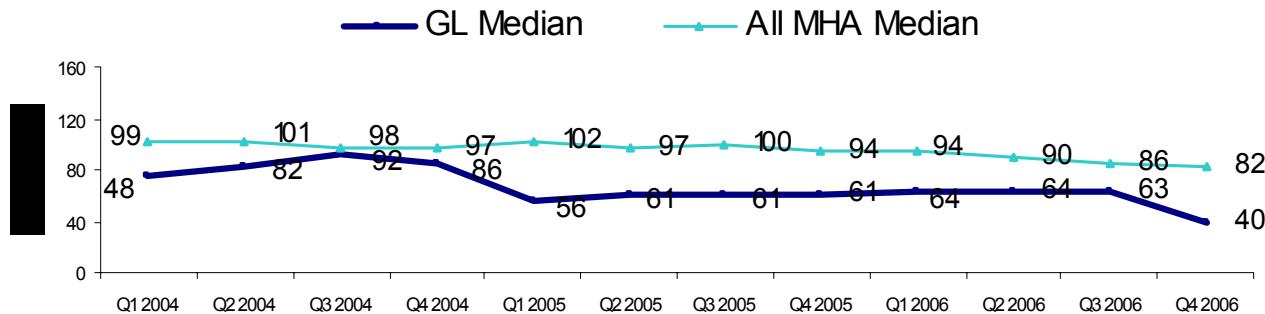
Q104 35/36	Q105 - 30/30	Q106 - 29/29
Q2 04 39/39	Q2 05 - 20/20	Q106 - 20/20
Q3 04 27/28	Q3 05 - 21/21	Q106 - 31/31
Q4 04 - 21/22	Q405 - 25/25	Q106 - 30/30

Median Time to PCI





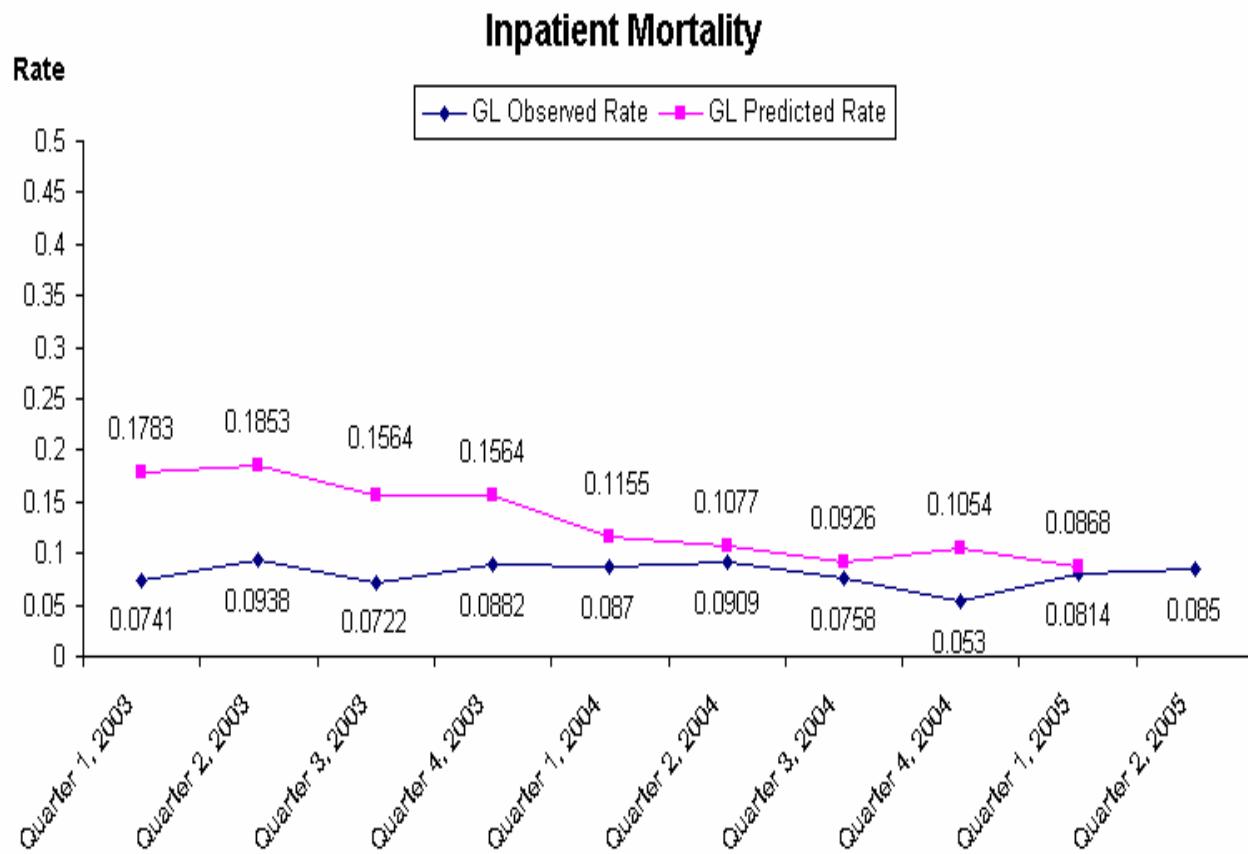
Gundersen Lutheran Median Time to PCI

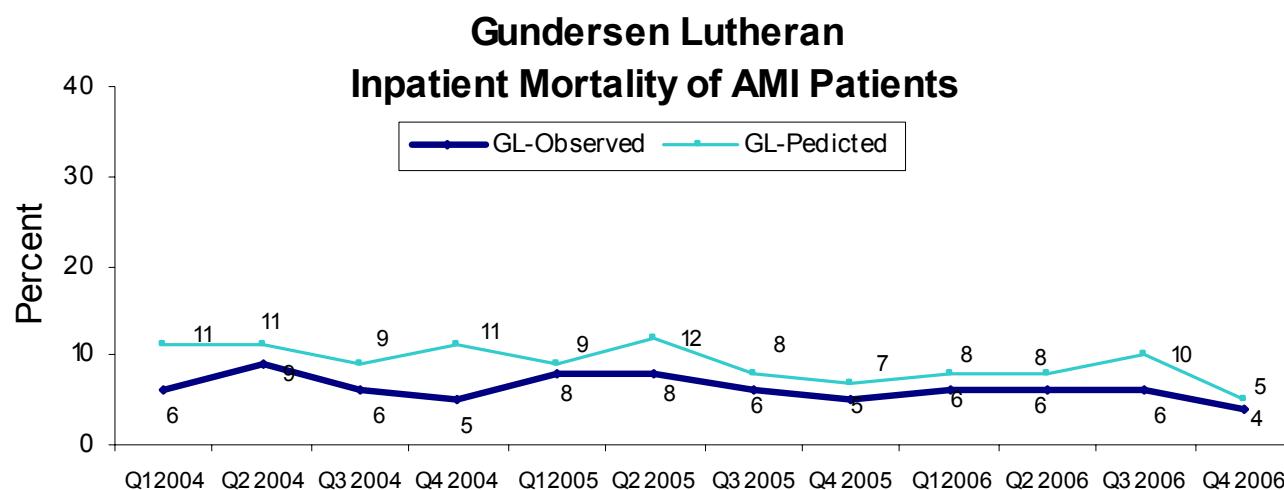


Gundersen Lutheran

Q104 - n=10 Q105 - n=9 Q106 - n=9
Q2 04 n=16 Q2 05 - n=9 Q2 06 - n=9
Q3 04 - n=10 Q3 05 - n=11 Q3 06 - n=12
Q4 04 - n=9 Q4 05 - n=16 Q4 06 - n=7

Qi Project defines an outlier as any data points exceeding 24 hours. Outlier values are excluded from the aggregated data of this report. AHA/ACC Guidelines recommend





Observed Numerator/Denominator per quarter

Q104 - 8/92	Q105 - 7/86	Q106 - 7/108
Q2 04 - 10/110	Q2 05 - 6/71	Q1206 - 5/81
Q3 04 - 5/84	Q3 05 - 4/63	Q3 06 - 5/84
Q4 04 - 5/94	Q4 05 - 4/87	Q4 06 - 4/106



Barriers

- Dealing with “Cookbook Medicine”
- New people are hired and take care of the patients—requires diligence with ongoing education

Successful Ingredients



- Great Physician leader
- Flowcharted the current and ideal so we know where we were and where we wanted to go
- Built the carepath right into the standing orders
- Built in feedback loops at the point of care
- Followed basic QPI principles

Successful Ingredients



- The right multidisciplinary team members
 - MDs (Cardiology, Internal Medicine, ER)
 - Clinical Nurse Specialist
 - Pharmacy
 - Social Worker
 - Cardiac Educators
 - Staff from all departments
 - QPI facilitator
 - Data support from HIM

Successful Ingredients



- Ongoing Education
 - Cardiologists
 - Cardiothoracic Surgeons
 - Medical Residents
 - Internal Medicine
 - RN staff
- Consistent Data Reporting, showing progress and successes

Where are we now? 2007



- Gundersen Lutheran Heart Institute has developed and implemented a program that is designed to get ST elevation AMI patients to the Cardiac Cath Lab as quickly as possible.

Priority One Heart Attack Program





Heart Attack Program

Removing time barriers to get a heart attack patients' blocked arteries open as quickly as possible is the goal of the Priority One Heart Attack Program



Only





Heart Attack Program

Priority One's goal is to deliver treatment (angioplasty or stenting) to heart attack patients within 90 minutes of their presenting to their local emergency room.



Only

Heart Institute
Gundersen Lutheran



Heart Attack Program

Gundersen
Lutheran's
Priority One
Heart Attack
Program
combines
teamwork and
expertise from:



Community Hospitals

Only

Heart Institute
Gundersen Lutheran



Heart Attack Program



Area emergency rooms stabilize the patient,
then make ONE CALL to Gundersen
Lutheran to activate the Priority One team...

Only

Heart Institute
Gundersen Lutheran



Heart Attack Program



MedLink AIR, or local ground ambulance crews, quickly transport the patient to Gundersen Lutheran...

Only

Heart Institute
Gundersen Lutheran



Heart Attack Program

...Where an expert team is waiting to provide treatment that will open the blocked artery.





Heart Attack Program



The Cardiac Catheterization Lab team quickly prepares the patient for the procedure that will open the blocked artery.

Only

Heart Institute
Gundersen Lutheran



Heart Attack Program

Partnered Hospital Sites:

Winona Health – Community Memorial Hospital, Winona, MN

Black River Memorial Hospital,

Black River Falls, WI

Vernon Memorial Hospital, Viroqua, WI

St. Joseph's Hospital, Hillsboro, WI

Regional Health Services of Cresco, IA

Gundersen Lutheran Trauma & Emergency Center

Gundersen Lutheran - Onalaska Urgent Care

Prairie du Chien Memorial Hospital, Prairie du Chien, WI

Winneshiek Medical Center – Decorah, IA

Franciscan Skemp Healthcare Mayo Health System – Arcadia, WI

Veterans Memorial Hospital – Waukon, IA

Tomah Memorial Hospital – Tomah, WI

Tri-County Memorial Hospital – Whitehall, WI

Franciscan Healthcare – Sparta, WI

Boscobel Hospital – Boscobel, WI

Richland Center Hospital – Richland Center, WI

Palmer Luther Health Center – West Union, IA

Only



Priority One Heart Attack Program





Questions?

Free Cat!!!



*Call 555-9876 for
more details.*