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Allina Health System



LEVEL 1 OVERSIGHT COMMITTEE

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The Level 1 Heart Attack Program provides exceptional and immediate treatment to patients presenting to community hospital emergency departments with an acute ST-segment elevation myocardial infarction. The Level 1 Program is a cooperative initiative between select community hospitals and the Minneapolis Heart Institute and Abbott Northwestern Hospital.

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MINNEAPOLIS HEART INSTITUTE'S LEVEL 1 HEART ATTACK OUTCOME REPORT ONLINE VERSION AVAILABLE

If you prefer, view *Minneapolis Heart Institute's Level 1 Heart Attack Outcome Report* online at www.mplsheart.com/level1report. To sign up for email notification of *Level 1 Heart Attack Outcome Report* online publication, send your name and email address to us at: level1report@mplsheart.com.



LEVEL 1 HEART ATTACK OUTCOME REPORT



UNIQUE LEVEL 1 HEART ATTACK PROGRAM

The Level 1 Heart Attack Program just passed its first birthday and the results are in – and they look good.

The Minneapolis Heart Institute at Abbott Northwestern Hospital began this unique treatment program in March 2003. It is the only program of its kind in the U.S. to coordinate community emergency departments with trained emergency transportation professionals and a constantly available expert angioplasty team.

The Level 1 Heart Attack Program is based on European research (Andersen, *NEJM* 2003 Aug 21;349(8):733-42) that

shows clear survival benefit when patients were treated with immediate angioplasty or stenting compared with thrombolytic therapy. The benefit assumed a high-quality, high-volume angioplasty team and rapid organized treatment.

With this biannual newsletter, we'll update you with fresh, real-time data – as it happens – on this innovative program for the care of patients with an acute ST-segment elevation myocardial infarction.

This Level 1 Heart Attack Program Report Card shows results to date.

**Level 1 Heart Attack Program interventional therapies are available 24 hours per day, 365 days per year.
The Level 1 Heart Attack Program Report Card data include all patients at all times.**

LEVEL 1 HEART ATTACK PROGRAM REPORT CARD — MARCH 1, 2003 - MARCH 31, 2004 (NO PATIENTS EXCLUDED FROM REPORT)

| | Zone 1 & Zone 2 Patients | Zone 1 ¹ Patients | Zone 2 ² Patients |
|---|--------------------------|------------------------------|------------------------------|
| Number of patients | 175 | 150 | 25 |
| Average age | 64.5 years | | |
| Age ≥ 65 | 48.5% | | |
| Age ≥ 75 | 16% | | |
| Age ≥ 85 | 8.6% | | |
| Male/female | 66%/34% | | |
| Median time: community ED arrival to balloon inflation at ANW | | 96 ³ min | 114 ⁴ min |
| Median time: cath lab arrival to balloon inflation | 16.5 min | | |
| Ground/air | 44%/56% | | |
| Deaths during transfer | 0 | | |
| Events | | | |
| VFib arrest during transfer, all resuscitated | 4 patients (2.3%) | | |
| Patients without acute MI (<i>false positives</i>) | 5 patients (2.9%) | | |
| Bleeding requiring transfusion | 1 patient (0.6%) | | |
| Anterior infarction | 60 patients (34%) | | |
| CABG procedures | | | |
| CABG–immediate (<i>No patients sent to CABG because of angioplasty/stent complication</i>) | 4 patients (2.3%) | | |
| CABG–elective | 6 patients (3.4%) | | |
| Hospital mortality at 30 days ⁵ (<i>6 of 9 deaths were patients >80 years old; 5 of 9 deaths were patients with anoxic brain injury from initial cardiac arrest</i>) | 9 patients (5.1%) | 8 | 1 |
| Stroke rate at 30 days | 0 | | |
| Reinfarction at 30 days | 1 patient (0.6%) | | |
| Hospital length of stay | 3.0 days | | |

1. Zone 1: Hospitals 22-60 miles from Abbott Northwestern Hospital. No thrombolytic therapy. Immediate transfer and stenting.
2. Zone 2: Hospitals 61-170 miles from Abbott Northwestern Hospital. Half-dose thrombolytic therapy followed by immediate transfer and stenting.

3. Comparable time data from DANAMI TRIAL (*NEJM* 2003 Aug 21;349(8):733-42): 108 minutes.
4. Comparable time data does not exist at this time for this group of patients.
5. Comparable mortality data from DANAMI TRIAL: 6.6%.