

LEVEL 1 HEART ATTACK OUTCOME REPORT

Level 1 Heart Attack Program interventional therapies are available 24 hours a day, 365 days a year.

UNIQUE LEVEL 1 HEART ATTACK PROGRAM: NO PATIENT EXCLUDED FROM TREATMENT*

The Level 1 Heart Attack Program has completed three consecutive years of operation. The Minneapolis Heart Institute at Abbott Northwestern Hospital began this unique treatment program in March 2003. This is the first program of its kind in the United States to coordinate community emergency departments

with trained emergency transportation professionals and an expert angioplasty team available 24 hours a day.

Since its inception, 1121 patients have been treated through MHI's Level 1 Heart Attack Program. When compared to benchmarks, the Level 1 program shows a significant reduction in mortality rates.

*No patients excluded based on age, cardiac shock, cardiac arrest, comorbidity, etc.

Level 1 Heart Attack Outcome Report — March 1, 2003 - November 30, 2006

Patients	
Total	1345
Zone 1	627
Zone 2	421
Abbott Northwestern ED3	297
Male/Female	72%/28%
Average age	62.2 years
Anterior MI or LBBB	37.2%
Cardiogenic shock	12.3%
Pre-PCI cardiac arrest	10.8%
Transport	
Ground/Air	30%/70%
Median elapsed time	
Community ED arrival to balloon inflation at ANW	
Zone 1	95 minutes
Zone 2	120 minutes
Abbott Northwestern ED	65 minutes
Cath lab arrival to balloon inflation, zone 1 and 2	13 minutes

OVERALL PROGRAM OUTCOMES

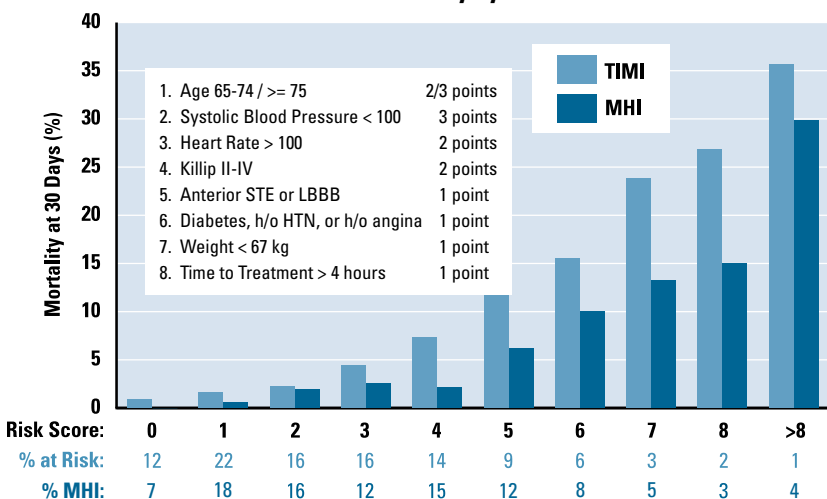
Mortality at 30 days	
Zone 1	4.6%
Zone 2	5.7%
Abbott Northwestern ED	4.4%
Overall mortality at 1 year	7.2%
Overall cardiovascular mortality at 1 year	5.7%
Stroke rate at 30 days	1.2%
Reinfarction at 30 days	1.6%
Median hospital length of stay	3.0 days
TIMI major bleeding	0.6%

OUTCOMES WITH EXCLUSIONS USED BY OTHER PROGRAMS AND CLINICAL TRIALS

Mortality at 30 days	1.0%
Mortality at 1 year	1.9%

1. Zone 1: Hospitals 22-60 miles from Abbott Northwestern Hospital. No thrombolytic therapy. Immediate transfer and stenting.
2. Zone 2: Hospitals 61-190 miles from Abbott Northwestern Hospital. Half-dose thrombolytic therapy followed by immediate transfer and stenting.
3. Patients entering the Level 1 Program through Abbott Northwestern Hospital's Emergency Department.

Level 1 MI Mortality by TIMI Risk Score**



**Expected mortality is based on national data versus MHI data.

LEVEL 1 OVERSIGHT COMMITTEE

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