

LEVEL 1 HEART ATTACK OUTCOME REPORT

VOLUME 6 | NUMBER 1 | 2010

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

INNOVATIVE LEVEL ONE HEART ATTACK PROGRAM: NO PATIENT EXCLUDED FROM TREATMENT*

Since implementing the Level One Heart Attack Program in March 2003, the Minneapolis Heart Institute® at Abbott Northwestern Hospital has treated 2,639 patients using this unique treatment which is the first of its kind in the United

States to coordinate community emergency departments with trained emergency transportation professionals and an expert angioplasty team available 24/7. When compared to benchmarks, the Level One program shows a significant reduction in mortality rates.

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

LEVEL ONE HEART ATTACK OUTCOME REPORT – MARCH 1, 2003 THROUGH DECEMBER 31, 2009

Patients

Total	2639
Zone 1 ¹	1198
Zone 2 ²	842
Abbott Northwestern ED ³	599
Male/Female	72%/28%
Average Age	62.4 years
Anterior MI or LBBB	37.20%
Cardiogenic Shock	11.30%
Pre-PCI cardiac arrest	11%
Transport	
Ground/air	45%/55%

Median Elapsed Time

Community ED arrival to balloon inflation at Abbott Northwestern	
Zone 1	94 min
Zone 2	123 min
ANW	62 min
Cath lab arrival to balloon inflation, Zone 1 and 2	15 min

Overall Program Outcomes

Mortality at 30 days/1 year**	
Zone 1	5.7%/7.9%
Zone 2	6.8%/10.2%
Abbott Northwestern ED	5.3%/8.5%
Overall mortality at 1 year	8.80%
Overall cardiovascular mortality 1 year	6.60%
Stroke rate at 30 days	0.90%
Reinfarction at 30 days	1.40%
Median hospital length of stay	3.0 days
TIMI major bleeding	1.70%

Outcomes with exclusions used by other programs and clinical trials⁴

Mortality at 30 days	0.70%
Mortality at 1 year	1.20%

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 One Program through Abbott Northwestern Hospital's Emergency Department.
4. Excludes patients with cardiac arrest, cardiogenic shock, age ≥ 80, or COD that is non-cardiac related.



CARDIOVASCULAR EMERGENCY PROTOCOLS

In 2010, Minneapolis Heart Institute® published all of its protocols and other helpful resources on its public website, www.mplsheart.com. This allows medical professionals at all of its 30 partnering hospitals to conveniently and easily access them when needed. For more information on these protocols, contact Monique Ross, RN, at 612-863-6872 or monique.ross@allina.com.



MINNEAPOLIS
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LEVEL ONE OVERSIGHT COMMITTEE

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ONLINE VERSION AVAILABLE

Minneapolis Heart Institute's Level One Heart Attack Outcome Report can also be found online at mplsheart.com by clicking on Publications & Research.

The Level One Heart Attack Program relies upon a high degree of collaboration between community hospitals, Abbott Northwestern Hospital and the Minneapolis Heart Institute®. Currently, 30 hospitals and health care facilities participate in the program.

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| Aitkin – Riverwood Healthcare Center | Monticello – New River Medical Center |
| Alexandria – Douglas County Hospital | Mora – Kanabec Hospital |
| Arlington – Sibley Medical Center | Morris – Stevens Community Medical Center |
| Blue Earth – United Hospital District | New Prague – Queen of Peace Hospital |
| Brainerd – St. Joseph's Medical Center | New Ulm – New Ulm Medical Center |
| Cambridge – Cambridge Medical Center | Northfield – Northfield Hospital |
| Crosby – Cuyuna Regional Medical Center | Olivia – RC Hospitals & Clinics |
| Faribault – District One Hospital | Owatonna – Owatonna Hospital |
| Glencoe – Glencoe Regional Health Services | Redwood Falls – Redwood Area Hospital |
| Grand Rapids – Grand Itasca Clinic and Hospital | Shakopee – St. Francis Medical Center |
| Grantsburg, WI – Burnett Medical Center | Sleepy Eye – Sleepy Eye Medical Center |
| Hutchinson – Hutchinson Medical Center | Springfield – Springfield Medical Center |
| LeSueur – Minnesota Valley Health Center | St. Peter – River's Edge Hospital and Clinic |
| Litchfield – Meeker County Memorial Hospital | Waconia – Ridgeview Medical Center |
| Minneapolis – Abbott Northwestern Hospital | Willmar – Rice Memorial Hospital |