

Heart Attack Mortality

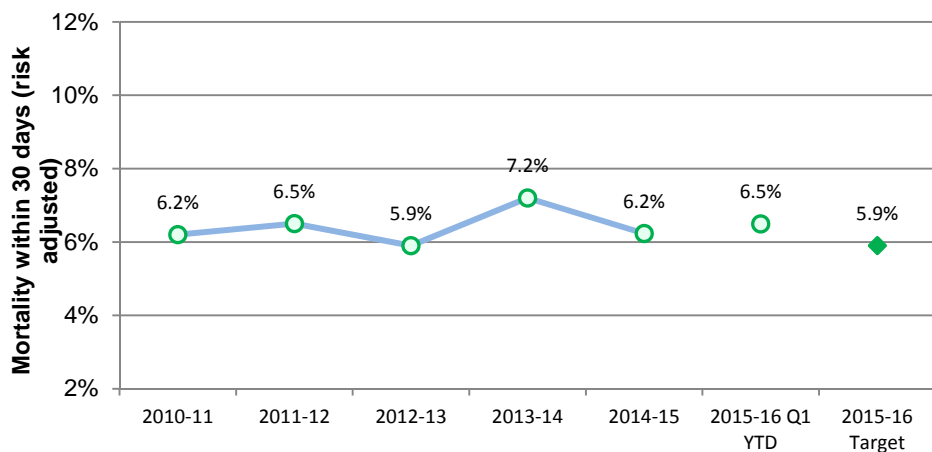
Measure Definition

The probability of dying in hospital within 30 days of being admitted for a heart attack. AHS is performing at the same level as the national average of 7.1%. This measure represents hospital deaths occurring within 30 days of first admission to a hospital with a diagnosis of acute myocardial infarction (AMI), often called a heart attack. This measure is adjusted for age, sex and other conditions.

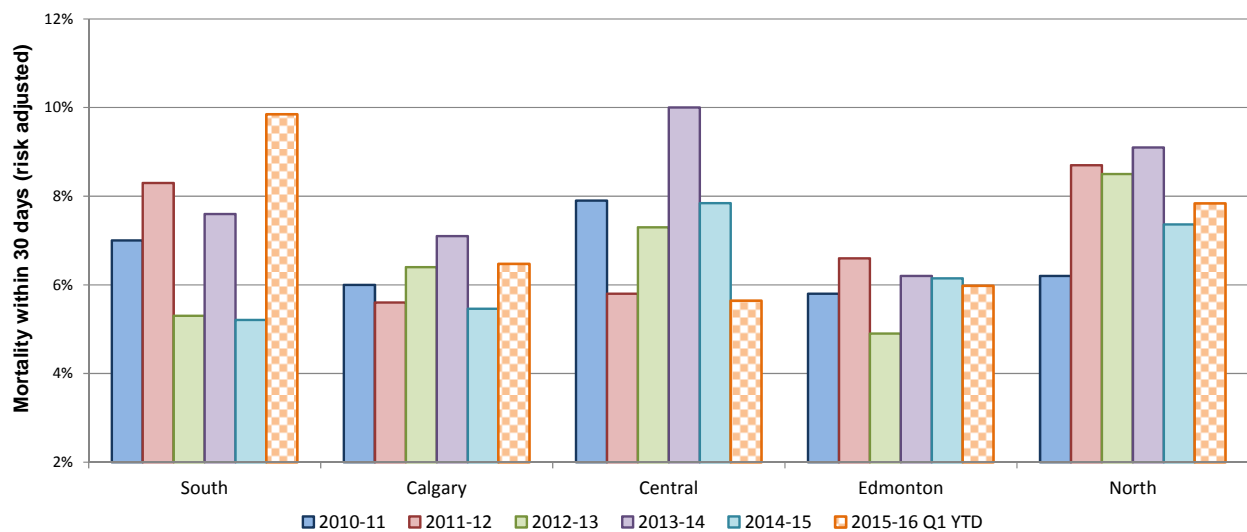
Understanding this Measure

Heart attacks are one of the leading causes of death in Canada. Breakthroughs in treatments, particularly the timing of re-opening coronary arteries for blood flow, are greatly increasing survival rates.

Heart Attack Mortality - Annual



Heart Attack Mortality - by Zone



Heart Attack Mortality – Actions

Provincial/ Strategic Clinical Network (SCN)	<ul style="list-style-type: none"> Implement best practice guidelines and protocols for management for Non ST Segment Elevation Myocardial Infarction (NSTEMI). Provincial implementation of ST-segment elevation myocardial infarction STEMI standardized orders sets with Cardiovascular Health and Stroke SCN.
South	<ul style="list-style-type: none"> Monitor and evaluate implementation of best practice guideline for NSTEMI.
Calgary	<ul style="list-style-type: none"> Collaborating with the ED SCN on STEMI quality improvement initiative. Rolling out developed NSTEMI Guidelines.
Central	<ul style="list-style-type: none"> Ongoing implementation of best practice guidelines and protocols and monitoring of cardiac outcomes continues. St. Mary's partnership with EMS occurred to provide cardiac care when site equipment failed. Central Zone Cardiac Services Review completed by the Cardiac and Stroke Services SCN. Planning has commenced to develop an action and implementation plan.
Edmonton	<ul style="list-style-type: none"> ED STEMI order set is complete. Developed a project charter to roll out the new STEMI ED order set. Currently, 130 patients have been enrolled in the REMCON STEMI research study; recruitment of patients to the study will continue. Ongoing education related to STEMI care was provided to 58 individuals bringing the YTD total to 128 students. Supporting EMS to deliver face-to-face simulation style education sessions with front-line staff to reinforce STEMI diagnosis and care pathway.
North	<ul style="list-style-type: none"> Work on congestive heart failure and chronic obstructive pulmonary disease pathways are underway with SCN, in partnership with primary care and allied health.

IN SUMMARY

Compared to the same period last year, two zones have demonstrated improvement.

Every day at AHS, cardiologists and EMS work collaboratively to diagnose patients who are in transit to the hospital. They can jump into action immediately upon the patient's arrival to the ED to initiate an appropriate treatment plan.

The decline in heart attack mortality rates is attributed to medical advances, new pharmaceuticals, and reductions in major risk factors, such as a decline in tobacco use.

DID YOU KNOW

NSTEMI (Non–ST-segment elevation myocardial infarction) occurs by developing a complete blockage of a minor coronary artery or a partial blockage of a major coronary artery previously affected by atherosclerosis.

STEMI (ST-segment elevation myocardial infarction) occurs by developing a complete blockage of a major coronary artery previously affected by atherosclerosis.

NSTEMI and STEMI are both commonly known as heart attack.

Heart Attack Mortality – Zone Details

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Heart Attack (AMI) Mortality within 30 days	2012-13	2013-14	2014-15	Q1 YTD		Trend *	2015-16 Target
				2014-15 Last Year	2015-16 Current		
Provincial	5.9%	7.2%	6.2%	5.9%	6.5%	↓	5.9%
South Zone	5.3%	7.6%	6.4%	4.2%	9.9%	↓	5.3%
Calgary Zone	6.4%	7.1%	4.9%	4.9%	6.5%	↓	6.3%
Central Zone	7.3%	10.0%	7.2%	3.6%	5.6%	↓	7.1%
Edmonton Zone	4.9%	6.2%	6.8%	6.8%	6.0%	↑	4.9%
North Zone	8.5%	9.1%	7.2%	12.5%	7.8%	↑	8.2%

* Risk adjusted rate of in hospital death within 30 days for first admission to hospital for a heart attack diagnosis.

* **Trend:** ↑ Improvement → Stability ↓ Area requires additional focus

Heart Attack Cases (Index)*	2012-13	2013-14	2014-15	Q1 YTD	
				2014-15 Last Year	2015-16 Current
Provincial	5,337	5,475	5,408	1,398	1,366
South Zone	360	320	315	84	71
Calgary Zone	1,794	1,951	1,876	490	467
Central Zone	542	509	544	130	140
Edmonton Zone	2,283	2,334	2,304	592	591
North Zone	356	361	369	102	97

*Total number of hospital stays where a first heart attack was diagnosed.