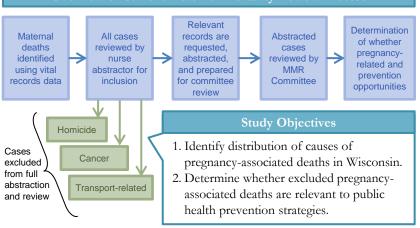
Investigating All Causes of Pregnancy-Associated Death in Wisconsin through Maternal Mortality Review

Matt Guerrieri¹, BS; Katie Gillespie¹, MSN; Angela M. K. Rohan^{1,2}, PhD ¹Wisconsin Division of Public Health; ²Centers for Disease Control and Prevention, Division of Reproductive Health

Background

The Wisconsin Maternal Mortality Review (MMR) Committee reviews medical records, coroner's reports, and vital records related to the deaths of pregnant and recently pregnant women in order to identify prevention opportunities. The Committee currently excludes homicide, transport-related, and cancer deaths from review and focuses on events likely due to pregnancy-related medical causes. In 2014, as part of an effort to better incorporate a public health approach into its reviews, the MMR program reassessed these exclusion criteria.

Overview of Current Maternal Mortality Review Process



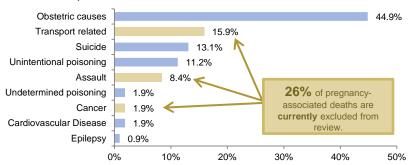
Step 1: Methods - Determine the Distribution of Pregnancy-Associated Deaths by Cause

- Pregnancy-associated deaths among Wisconsin residents were identified using mortality statistical files for 2008-2012.
- Deaths were considered pregnancy-associated if the death certificate pregnancy status variable indicated pregnant at the time of death, within 42 days of death, or within 43 days to one year of death.

Author Contact Information
Matt Guerrieri, Public Health Associate
Wisconsin Division of Public Health
John.Guerrieri@dhs.wisconsin.gov
(608) 267-0329

Step 1: Results - Distribution of Pregnancy-Associated Deaths by Cause

About 50% of pregnancy-associated deaths in Wisconsin resulted from injuries, 45% from obstetric causes, and 5% from chronic diseases.



Distribution of pregnancy-associated deaths by cause (N=107), Wisconsin mortality statistical file, 2008-2012

Step 2: Explore Opportunities to Review Excluded Cases

Conduct Wisconsin MMR Homicide Pilot

Death certificates used to identify 4 cases for pilot

4 cases for pilot

Death certificate, coroner, and law enforcement data abstracted

Cases reviewed by MMR subcommittee

Homicide Pilot: Key Findings

- 1 case: not pregnancy related
- 2 cases: possibly pregnancy related
- 1 case: pregnancy related
- Key themes: preconception mental health, intimate partner violence, and alcohol use

Research Other State MMR Findings

Cancer deaths¹

 Key themes: coordinated care management, end-oflife planning, preconception care

Transport-related deaths²

- 88% preventable
- Key themes: seatbelt use, alcohol, and sedating medications

Recommended Action Expand Maternal Mortality Review to investigate all causes of pregnancy-associated death, beginning with homicide and transport-related deaths.

Citations

¹Kavanaugh, Victoria. Pregnancy - Associated Death Due to Cancer in Virginia, 1999 - 2007. Virginia Department of Health, Office of the Chief Medical Examiner, Sept. 2014. Web. 13 Mar. 2015.

²Motor Vehicle Collisions: The Leading Cause of Pregnancy-Associated Death in Virginia. Virginia Department of Health, Office of the Chief Medical Examiner, April 2014. Web. 13 Mar. 2015.

