

Experience with the Pregnancy Check Box

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Evolution of the Check Box

- * Revision of the US Standard Death Certificate occurred in 2003 to include a pregnancy status check-box
- * Texas included these revisions in 2006
- * Updated version of the pregnancy inquiry has single list with five choices:
 - * Not pregnant within the past year
 - * Pregnant at time of death
 - * Not pregnant, but pregnant within 42 days of death
 - * Not pregnant, but pregnant between 43 days and one year before death
 - * Unknown

Pregnancy Check Box & Matching

| 2012 | Not Pregnant | Pregnant at death | Pregnant 42 days before death | Pregnant 43-364 days before death | Unknown/NA |
|--------------------------------|--------------|-------------------|-------------------------------|-----------------------------------|------------|
| <i>From Death Certificate:</i> | | | | | |
| 13-21 yrs | | 10 | 6 | 5 | |
| 22-29 yrs | | 27 | 14 | 12 | |
| 30-39 yrs | | 37 | 17 | 14 | |
| 40-49 yrs | | 25 | 5 | 6 | |
| >50 yrs | | 34 | 3 | 7 | |

222 women with pregnancy checked

Birth – Death Certificate Matching

- * Deaths of females 50 and under matched to “delivery events”
 - * Live births or fetal deaths (20+ wks gestation)
- * Matched on SSN or a combination of name, birth date, and county of residence
- * Days elapsed between delivery event and death calculated
 - * Keep only cases 365 days elapsed or under
- * Cases included regardless of cause of death
 - * Not only obstetric deaths (ICD-10 codes O00-O99)

Pregnancy Check Box & Matching

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|--|--------------|-------------------|-------------------------------|-----------------------------------|-------------|
| <i>From Matched Birth-Death Certificate file</i> | | | | | |
| 13-21 yrs | 5 | 10 | 5 | 3 | 10 |
| 22-29 yrs | 16 | 27 | 11 | 10 | 32 |
| 30-39 yrs | 21 | 37 | 11 | 10 | 22 |
| 40-49 yrs | 2 | 25 | 1 | 4 | 5 |

Matched birth/death file plus women identified as currently pregnant = 267 women

Pregnancy Check Box & Matching

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|--|--------------|-------------------|-------------------------------|-----------------------------------|------------|
| <i>From Matched Birth-Death Certificate file</i> | | | | | |
| 13-21 yrs | 5 | 10 | 5 | 3 | 10 |
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| 40-49 yrs | 2 | 25 | 1 | 4 | 5 |

2 of these cases contained additional information in the causes of death that specify pregnancy

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Pregnancy Check Box & Matching

| 2013 | Not Pregnant | Pregnant at death | Pregnant 42 days before death | Pregnant 43-364 days before death | Unknown/NA |
|--------------------------------------|--------------|-------------------|-------------------------------|-----------------------------------|------------|
| <i>From Matched Birth Death File</i> | | | | | |
| | 4 | 88 | 38 | 29 | 2 |

Limitations of the Check Box

- * Identified as “not pregnant” N = 4
 - * Death certificate narrative identified pregnancy in all 4
 - * Deaths were certified by:
 - * MD = 3
 - * ME = 1

- * Identified as “unknown” N = 2
 - * Death certificate narrative identified pregnancy in 1 certified by MD

Lessons Learned

- * The pregnancy check box both under and overestimates the number of pregnancy associated deaths
- * Role of educational initiatives

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O-codes

- * Identified all maternal deaths in 2013 using O-codes
- * 161 deaths

Late Maternal Deaths

Based on O-Codes

43-364 days
N = 28

Pregnant at
time of death
N = 4

≤ 42 days
N = 6

43-364 days
N = 18

Based on Pregnancy Check Box