

# WOMEN'S MORTALITY FOLLOWING A CHILDBIRTH AFFECTED BY VAGINAL BLEEDING

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Should we trust small measures of an association?

# BACKGROUND

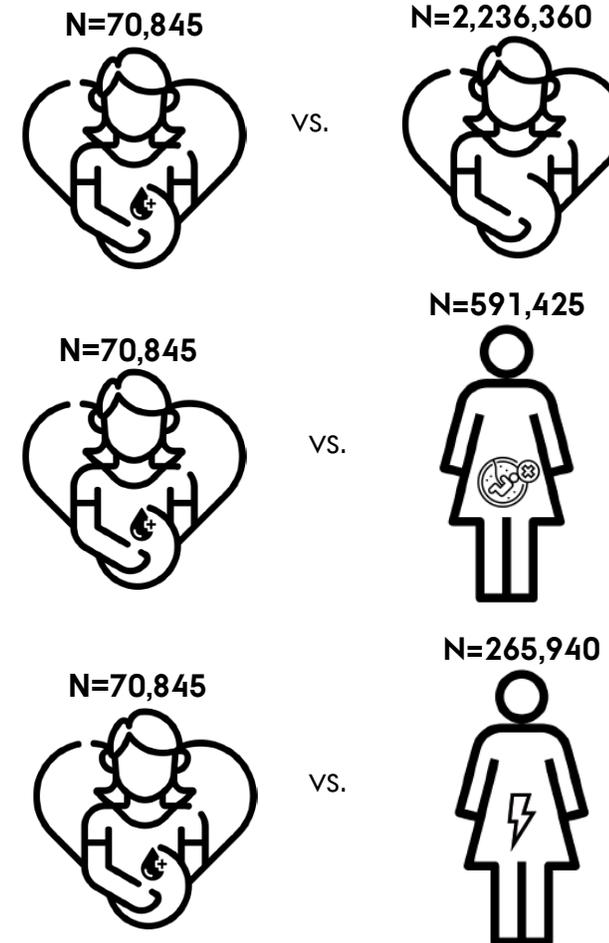
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- Women whose reproductive history includes only pregnancy terminations or only miscarriages are at a greater risk of all-cause mortality
- **Vaginal bleeding before 20 weeks of gestation** in presence of a viable intrauterine pregnancy is **threatened abortion**
- Threatened abortion affects up to 30% of clinically-recognized pregnancies

# OBJECTIVE

To investigate women's mortality risk following vaginal bleeding-affected childbirth as compared with that following

- 1) Vaginal bleeding-unaffected childbirths
- 2) Termination
- 3) Miscarriage



# DATA SOURCES

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# METHODS

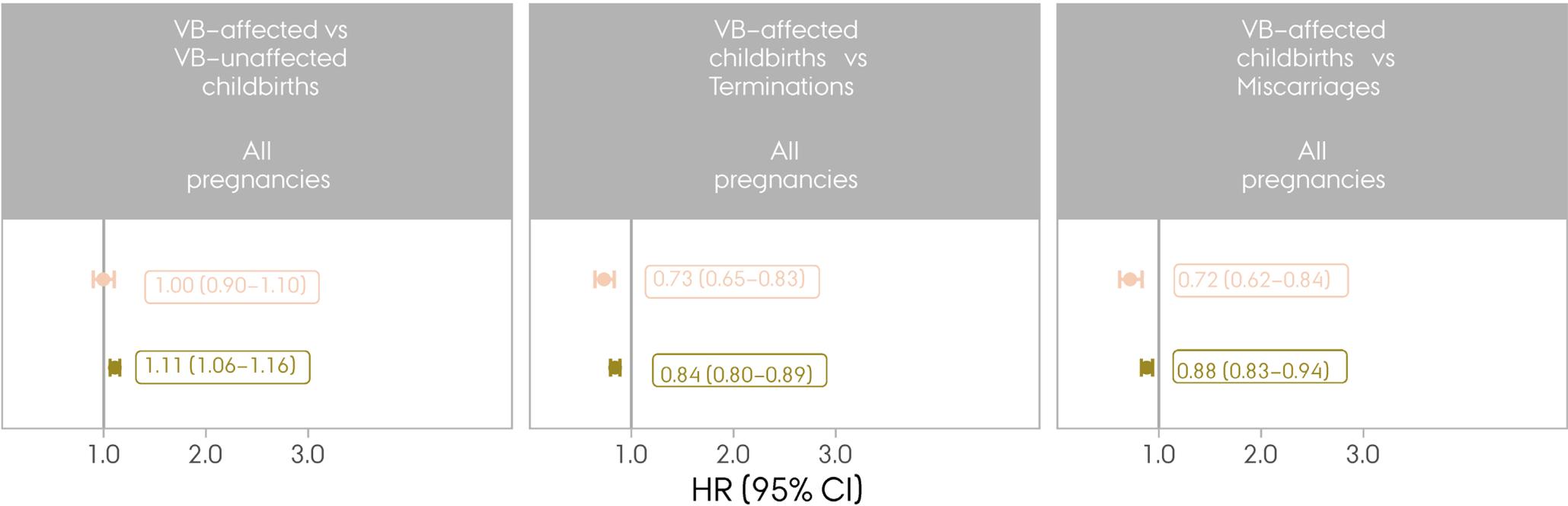
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- Follow-up
  - Time zero: date of delivery or date of a hospital encounter for VB, termination or miscarriage
  - Time of event: 
  - Censored at  or  on 31 Dec, 2018
- Cox proportional hazards regression: aHR (95% CI)
  - Adjusted for pre-index date calendar year, maternal age, comorbidities incl. reproductive history, co-medications, and socioeconomic factors

# ALL-CAUSE MORTALITY

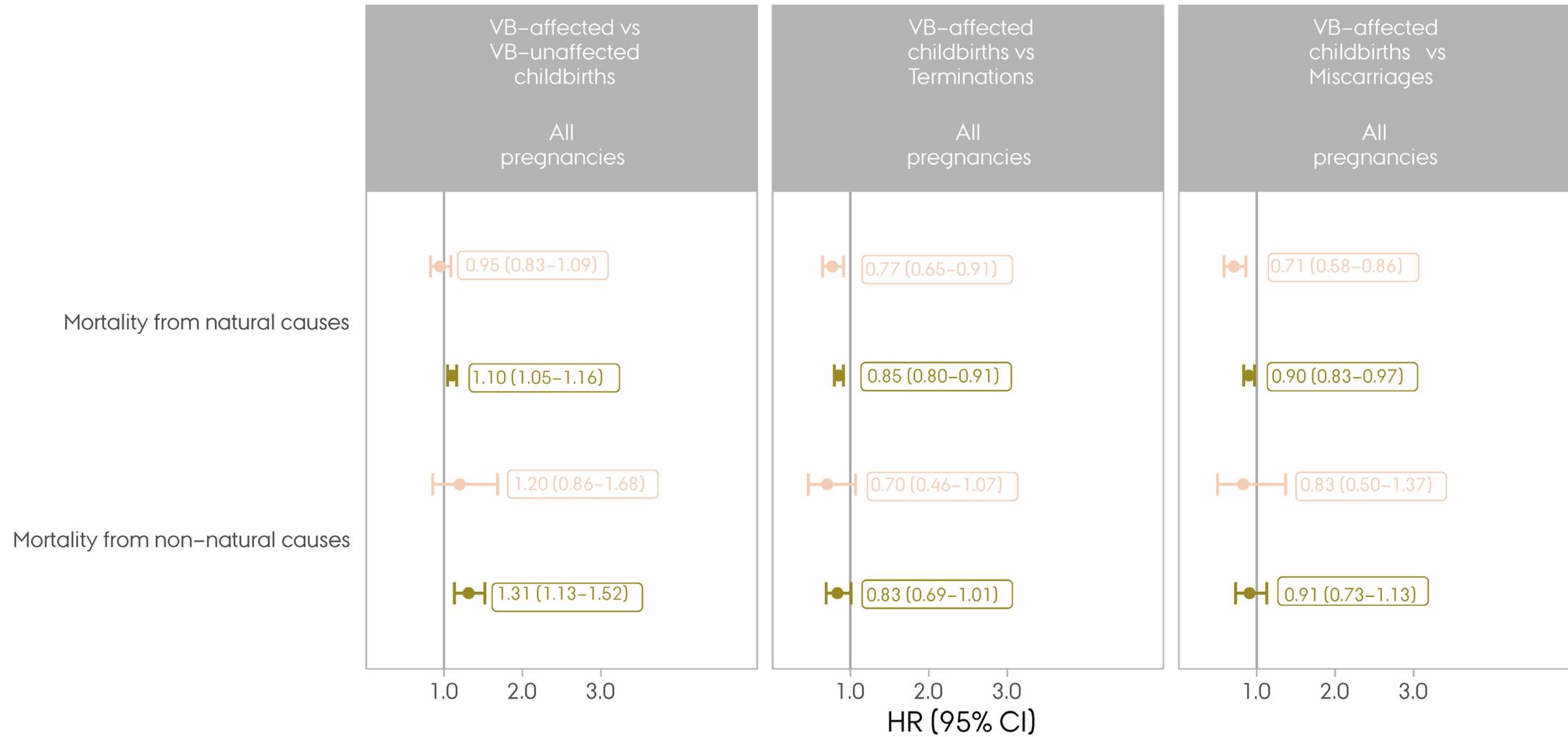
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All-cause mortality



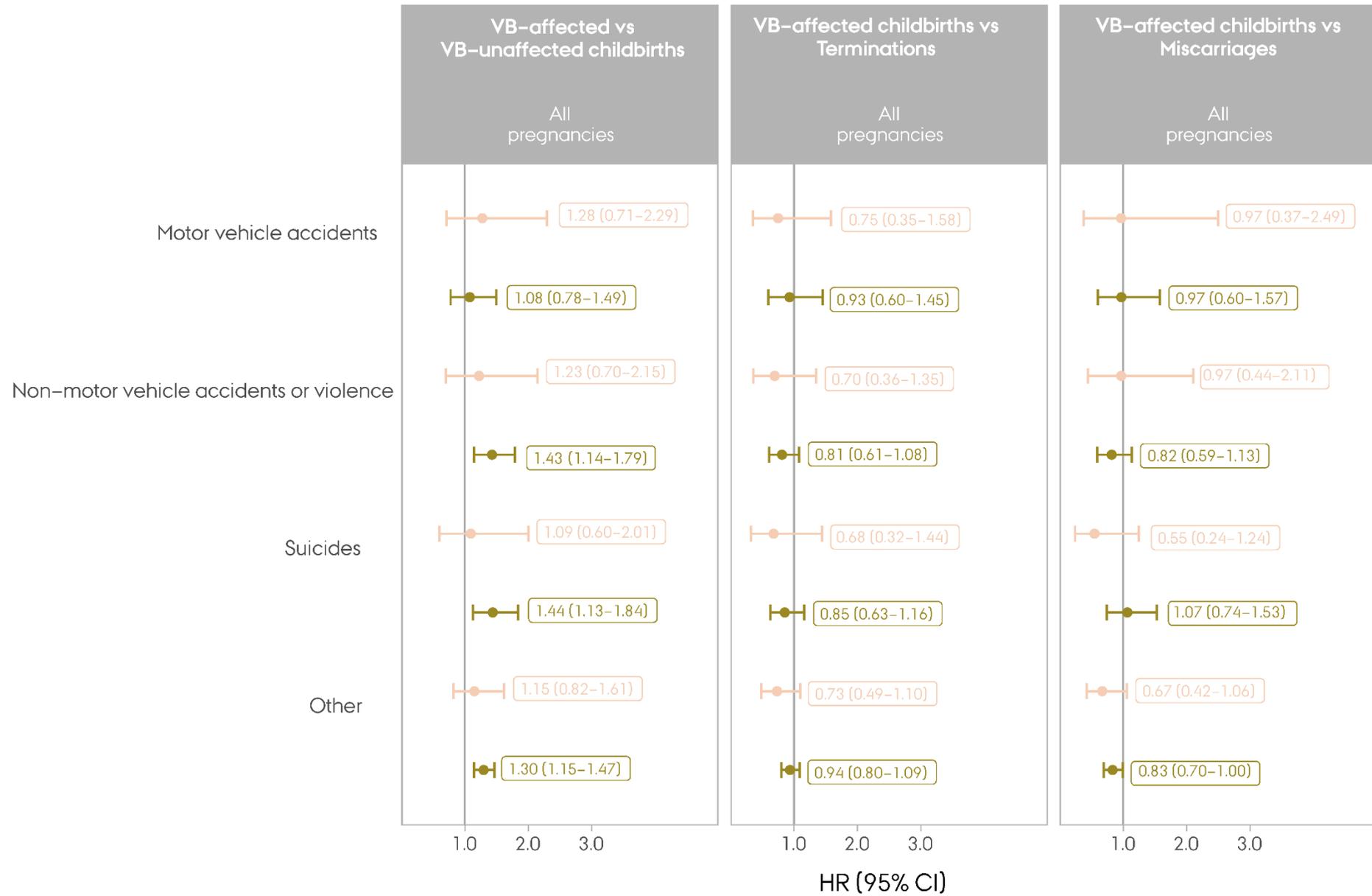
Period — 1979-2018 — 1994-2018 (for childbirths additionally adjusted for smoking in pregnancy)

# NATURAL AND NON-NATURAL CAUSES MORTALITY: DO WE TRUST WHAT WE SEE?



Period ● 1979-2017 ● 1994-2017 (for childbearing additionally adjusted for smoking in pregnancy)

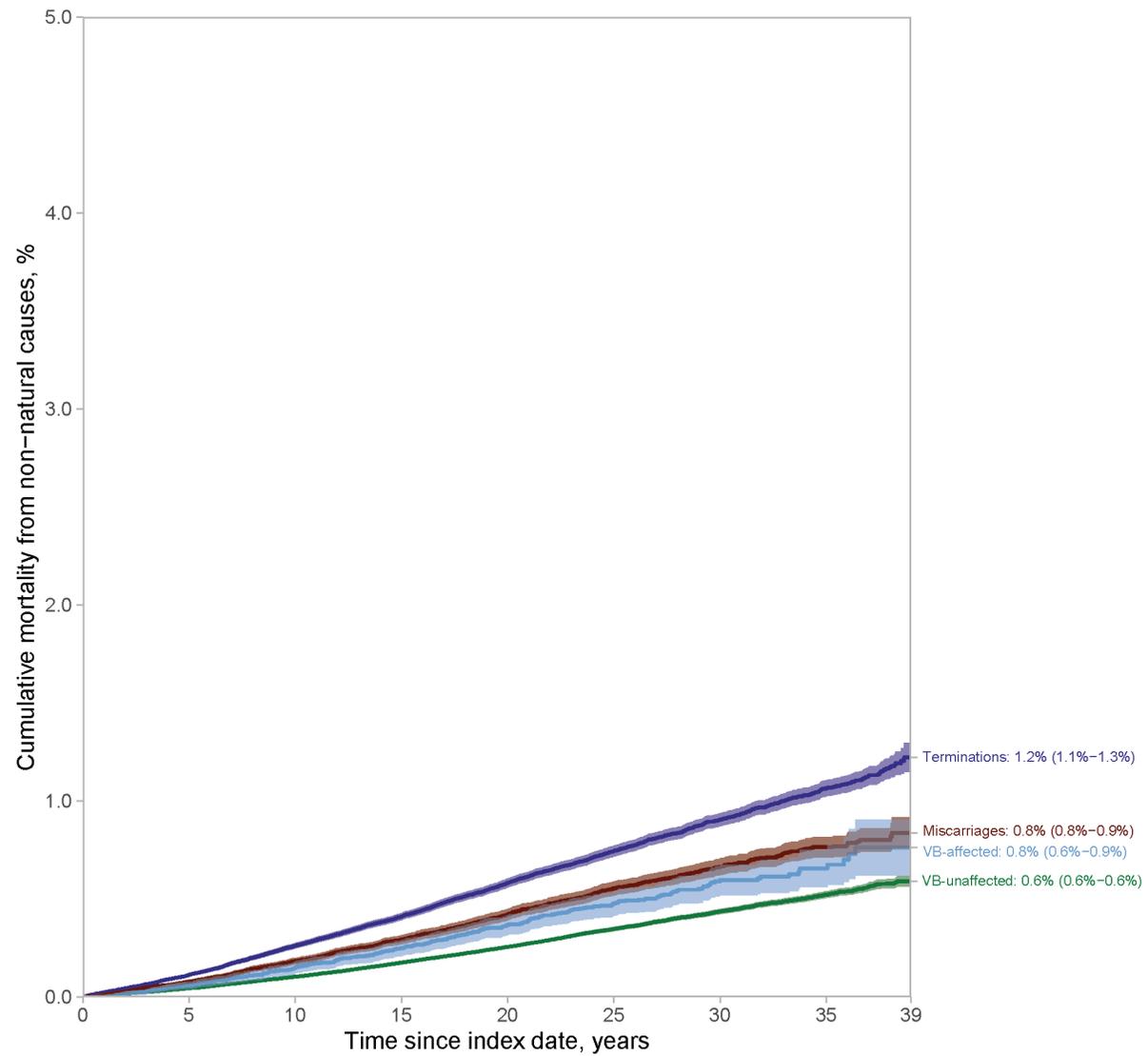
# NON-NATURAL CAUSES MORTALITY



# THANK YOU FOR ATTENTION!

# DESCRIPTIVE CHARACTERISTICS: REPRO

Reproductive history	VB-affected childbirths, N = 70,845 among 42,359 women		VB-unaffected childbirths, N = 2,236,360 among 879,770 women		Terminations, N = 591,425 among 268,302 women		Miscarriages, N = 265,940 among 145,671 women	
	n	%	n	%	n	%	n	%
Previous 1+ vaginal bleeding diagnosis	8,145	<b>11.0</b>	92,455	<b>4.1</b>	33,650	<b>5.7</b>	29,690	<b>11.0</b>
Previous 1+ vaginal bleeding within 20 gestational weeks	3,990	<b>5.6</b>	42,270	<b>1.9</b>	17,305	<b>2.9</b>	8,660	<b>3.3</b>
Previous 1+ termination	16,250	<b>23.0</b>	350,725	<b>16.0</b>	170,890	<b>29.0</b>	53,560	<b>20.0</b>
Previous 1+ miscarriage	18,220	<b>26.0</b>	268,935	<b>12.0</b>	57,465	<b>9.7</b>	41,320	<b>16.0</b>
History of any psychiatric condition	5,800	<b>8.2</b>	153,175	<b>6.8</b>	67,360	<b>11.0</b>	20,200	<b>7.6</b>



Data on causes of death was available through 31 Dec 2017  
 Curves were constructed using Kaplan-Meier estimator  
 VB, vaginal bleeding

# DO WE TRUST WHAT WE SEE?

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