

Om trafikolyckor och graviditet

- vad vet vi?

Magda Lindman, 29 april 2025, NTF&SAFER seminarie

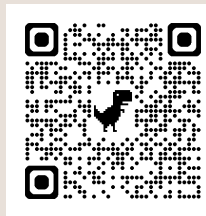




If & Traffic Safety

If's goal is to save lives and avoid personal injury.
& to create a sustainable traffic environment.

For all.



<https://www.if.se/om-if/hallbarhet/trafikforskning>



Graviditet & trafikolyckor: 32 rapporter

2030
2025
2020
2015
2010
2005
2000
1995
1990



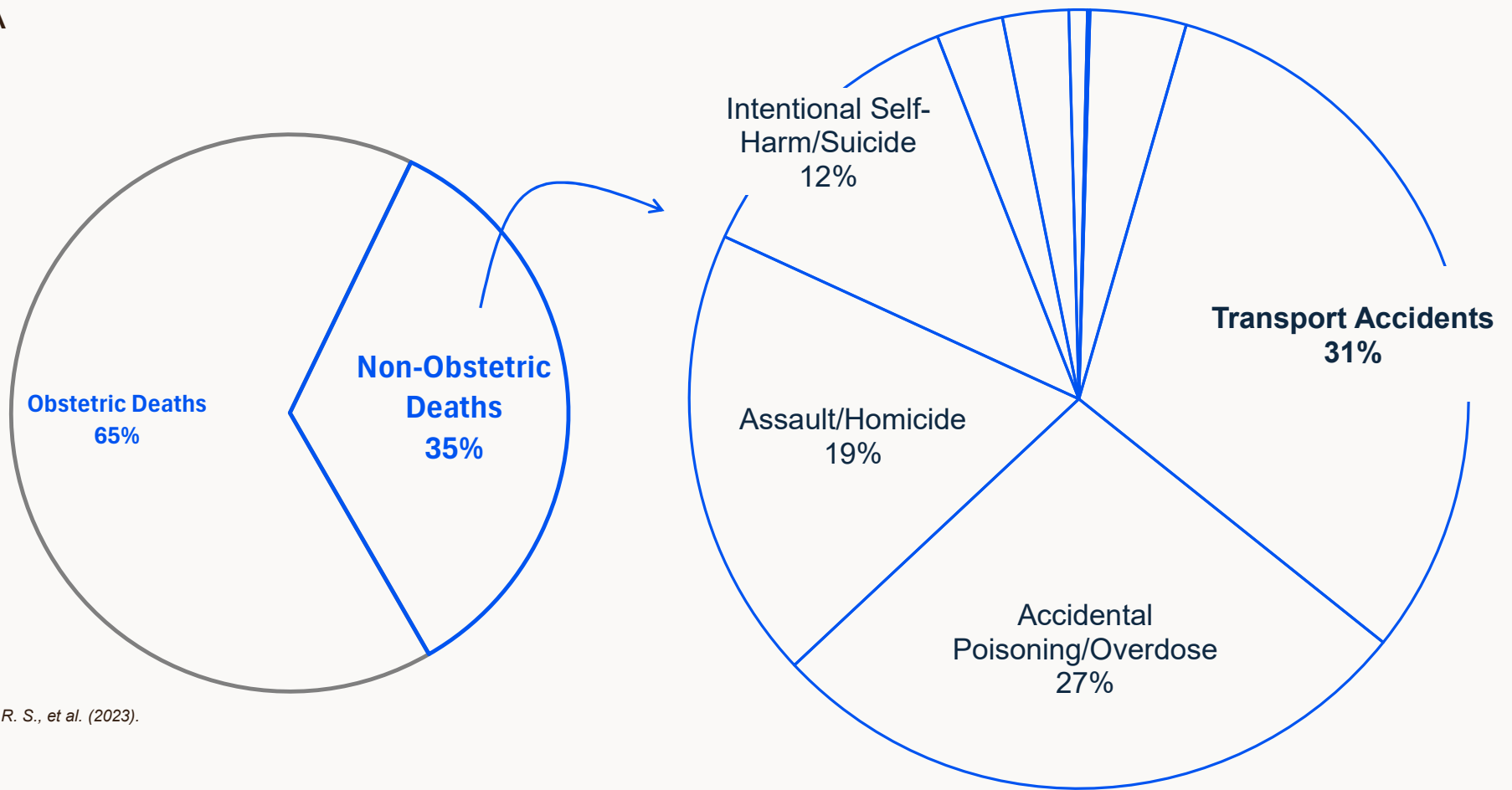
Många metod-utmaningar i publicerade studier:

- Data
- Kontrollgrupper: matchande miljö, allmänhälsa, förutsättningar för vård..
- Information både om trafikolyckan & konsekvenserna
- Definitioner/avgränsningar, ex MVC (Motor Vehicle Collision) 🚗 🚶 🛵 🚌
- Relevant nämnare i riskberäkning: rese-km per trafikslag och grupp



Mödradödlighet - vanligaste orsakerna

USA



Huang, R. S., et al. (2023).

100%

▤ Ej gravid

■ Gravid



0

oskadad

lätt
skadad

allvarligt
skadad

uppsökte
inte vård

uppsökte vård

Chang, Y. H., et al. (2024).



if...

A 28-year-old primigravida woman at 27 weeks' gestation was involved in a pedestrian motor vehicle accident while crossing a major intersection. Up to that point, her pregnancy had been normal except for earlier problems with hyperemesis. Ultrasound examination at 15 weeks' gestation had been reported as normal. The policeman at the scene of the accident was unimpressed by the severity of the victim's injuries, as recorded in his log.

Chang, Y. H., et al. (2023b).



Oregelbundna, starka eller långdragna värkar



Vattnet går för tidigt

Moderkakan lossnar för tidigt



Förlossningen sätts igång



Blödning innan förlossningen



Kejsarsnitt



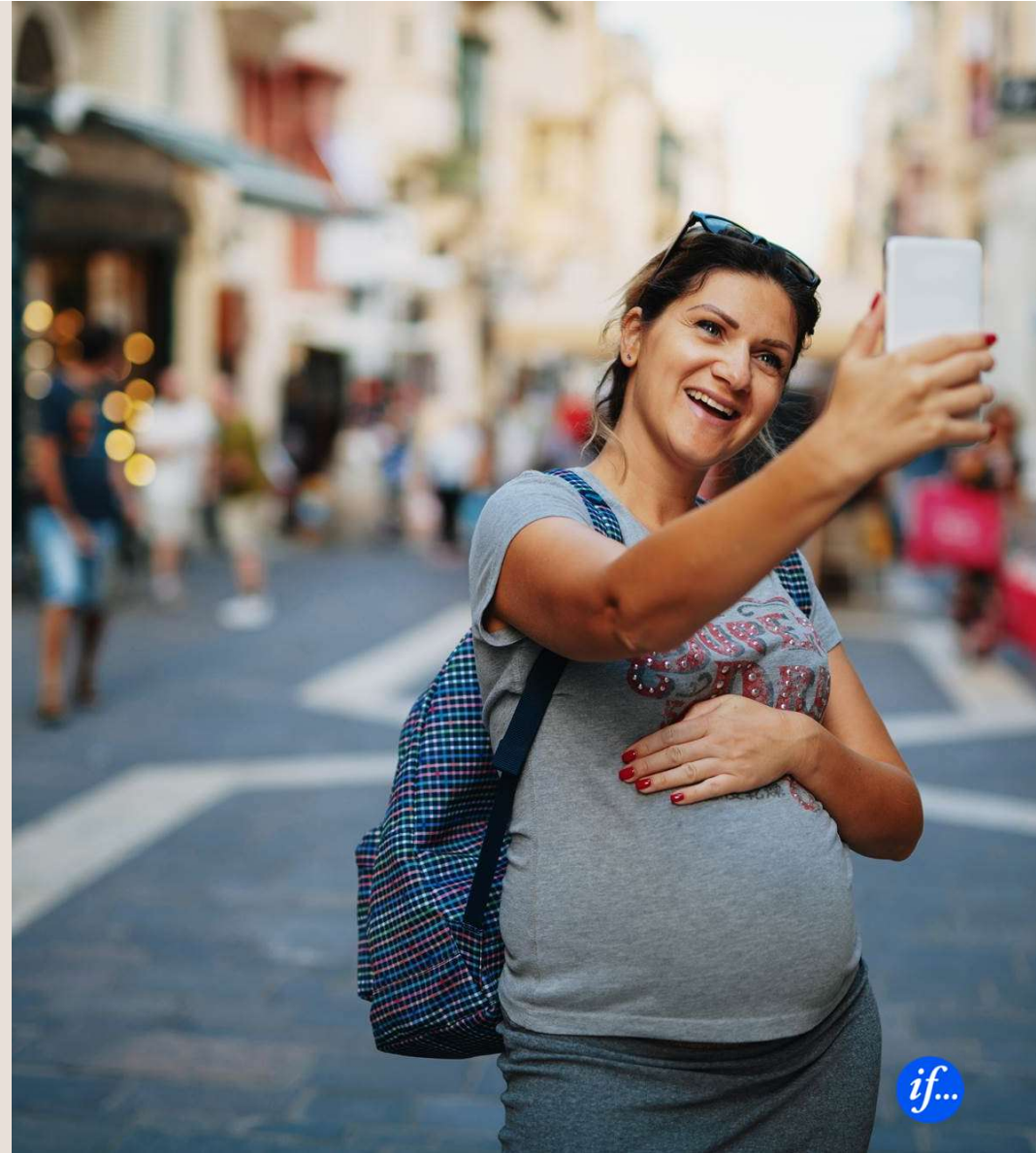
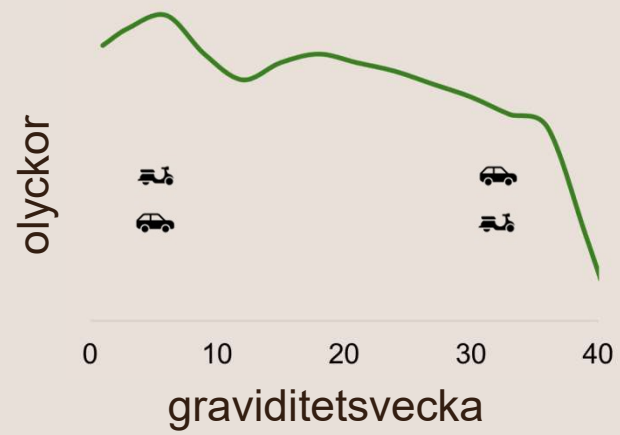
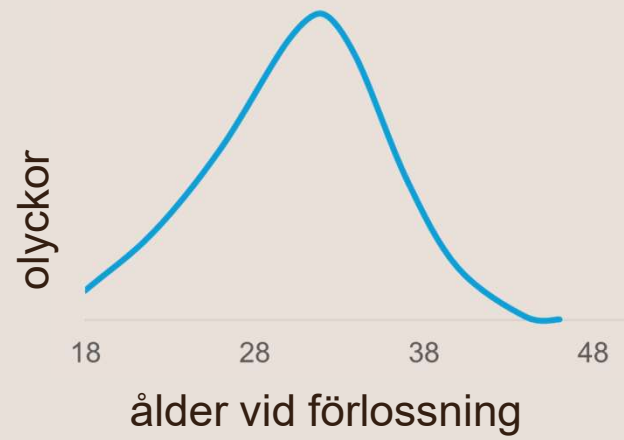
Graviditet kortare än 37 veckor



Barnets vikt mindre än 2500 gram vid födseln



Chang, Y. H., et al. (2023).



Vad tar vi med oss?

1

Använd trepunktsbälte – korrekt!

2

Varit med om en allvarlig trafikolycka?

Sök vård även om du mår bra!

3

Viktigt när du läser en rapport

Många forskningsmetod-utmaningar i studier på trafikolyckor med gravida.

Referenser

- Agaoglu, Z. et al. (2025). *Maternal-Fetal Outcomes in Patients Involved in Motor Vehicle Accident: A Tertiary Center Experience.*
- Aitokallio-Tallberg, A., & Halmesmäki, E. (1997). *Motor vehicle accident during the second or third trimester of pregnancy.*
- Amezcu-Prieto, C., et al. (2020). *Maternal trauma due to motor vehicle crashes and pregnancy outcomes: A systematic review and meta-Analysis.*
- Anquist, K. W., et al. (1994). *An unexpected fetal outcome following a severe maternal motor vehicle accident.*
- Azar, T., et al. (2015). *Motor vehicle collision-related accidents in pregnancy.*
- Battaloglu, E., et al. (2016). *Epidemiology and outcomes of pregnancy and obstetric complications in trauma in the United Kingdom.*
- Chang, Y. H., et al. (2022). *Risk of Mortality in Association with Pregnancy in Women following Motor Vehicle Crashes: A Systematic Review and Meta-Analysis.*
- Chang, Y. H., et al. (2023). *Profiles of pregnant women encountering motor vehicle crashes in Taiwan, 2008–2017.*
- Chang, Y. H., et al. (2023a). *Associations of maternal motor vehicle crashes during pregnancy with offspring's neonatal birth outcomes.*
- Chang, Y. H., et al. (2023b). *Maternal outcomes in association with motor vehicle crashes during pregnancy: A nationwide population-based retrospective study.*
- Chang, Y. H., et al. (2024). *Pregnancy is associated with more severe injuries from motor vehicle crashes.*
- Deshpande, N. A., et al. (2017). *Pregnant trauma victims experience nearly 2-fold higher mortality compared to their nonpregnant counterparts.*
- Hattori, S., et al. (2021). *Factors influencing pregnant women's injuries and fetal loss due to motor vehicle collisions: A national crash data-based study.*
- Huang, R. S., et al. (2023). *Non-Obstetric Maternal Mortality Trends by Race in the United States.*
- Hyde, L. K., et al. (2003). *Effect of motor vehicle crashes on adverse fetal outcomes.*
- Klinich, K. D. S., et al. (2008). *Fetal outcome in motor-vehicle crashes: effects of crash characteristics and maternal restraint.*
- Koh, S., et al. (2021). *Comparison of motor vehicle collision injuries between pregnant and non-pregnant women: A nationwide collision data-based study.*
- Kvarnstrand, L., et al. (2008). *Maternal fatalities, fetal and neonatal deaths related to motor vehicle crashes during pregnancy: A national population-based study.*
- Miller, N., et al. (2016). *Are pregnant women safer in motor vehicle accidents?*
- Natarajan, S., & Wright, T. S. (2024). *Direct Fetal Head Injury after Maternal Motor Vehicle Crash.*
- Owattanapanich, N., et al. *Motor vehicle crashes in pregnancy: Maternal and fetal outcomes.*
- Patteson, S. K., et al. (2007). *The consequences of high-risk behaviors: Trauma during pregnancy.*
- Petrone, P., et al. (2019). *Traumatic injuries to the pregnant patient: a critical literature review.*
- Redelmeier, D. A., et al. (2014). *Pregnancy and the risk of a traffic crash.*
- Sato, N., et al. (2022). *Epidemiology of pregnant patients with major trauma in Victoria.*
- Schiff, M. A., & Holt, V. L. (2005). *Pregnancy outcomes following hospitalization for motor vehicle crashes in Washington State from 1989 to 2001.*
- Schiff, M., et al. (1997). *Motor Vehicle Crashes and Maternal Mortality in New Mexico: The Significance of Seat Belt Use.*
- Schuster, M., et al. et al. (2018). *Trauma in pregnancy: A review of the Pennsylvania Trauma Systems Foundation database.*
- Shah, K. H., et al. (1998). *Trauma in Pregnancy: Maternal and Fetal Outcomes.*
- Vladutiu, C. J., et al. (2013). *Pregnant driver-associated motor vehicle crashes in North Carolina, 2001-2008.*
- Weiss, H. B., et al. (2011). *Motor-vehicle crashes during pregnancy: a retrospective cohort study.*



