



Circulatie-stilstand laat in de zwangerschap

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Oorzaken

Management

Prognose

Incidentie: 0.4 – 1.4 / 10.000 zwangerschappen

Groot ziekenhuis: **1 per 3 a 8 jaar**

Maternale overleving: **34 - 54 %**

Foetale overleving: **0 – 89 %**



**Perimortem cesarean section for maternal and fetal salvage:
concise review and protocol**

Drukker et al. Acta Obstetrica et Gynecologica 2014

Maternal collapse: Challenging the four minute rule.

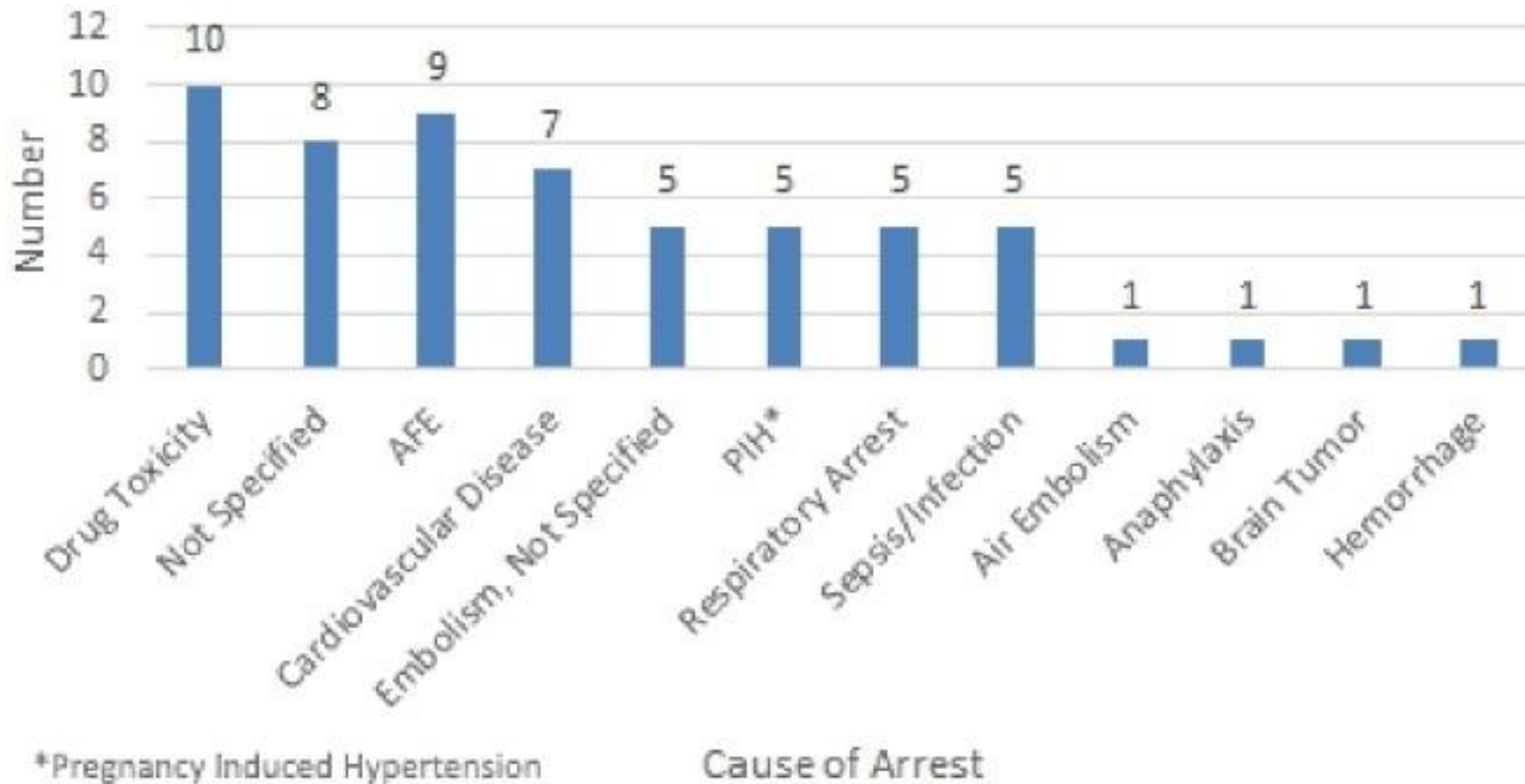
Benson et al. EBioMedicine 2016; 253-257

**Management of maternal cardiac Arrest in the Third trimester of pregnancy:
A Simulation-based Pilot study.**

Adams et al. Critical Care Research and practice 2016

Perimortem caesarean section

Parry et al. Emerg Med J 2016



Land specifiek en uiteraard case-series / AFE = Amniotic Fluid Embolism
USA intocaties, **India** Trauma, **Europa** Cardio vasculair / Sepsis etc

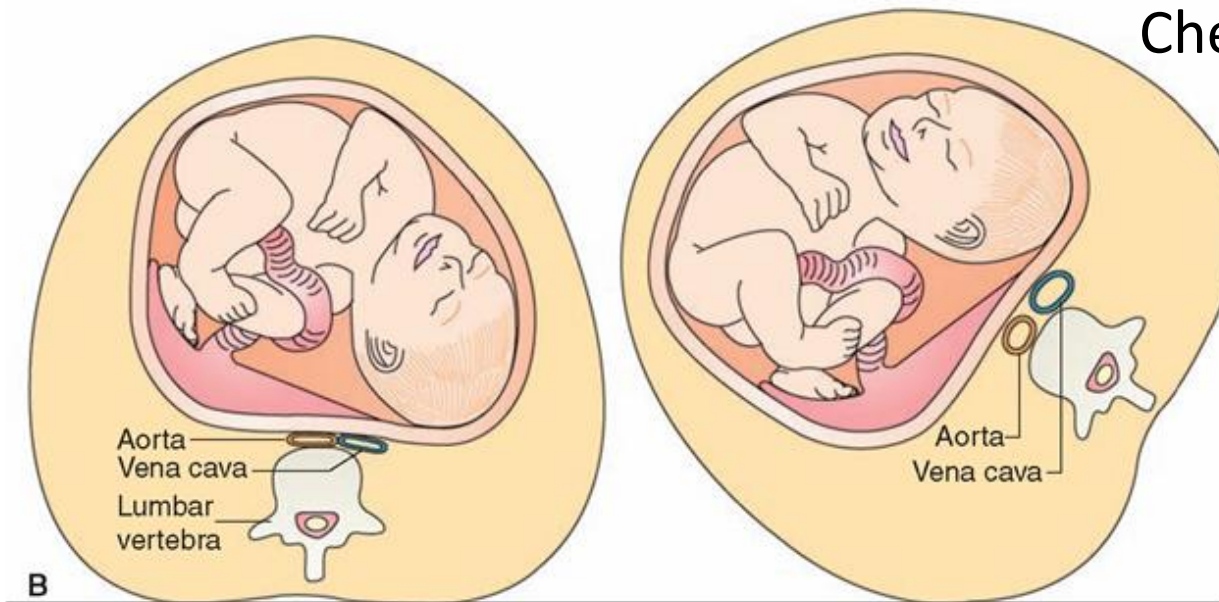
Perimortem cesarean section for maternal and fetal salvage: concise review and protocol

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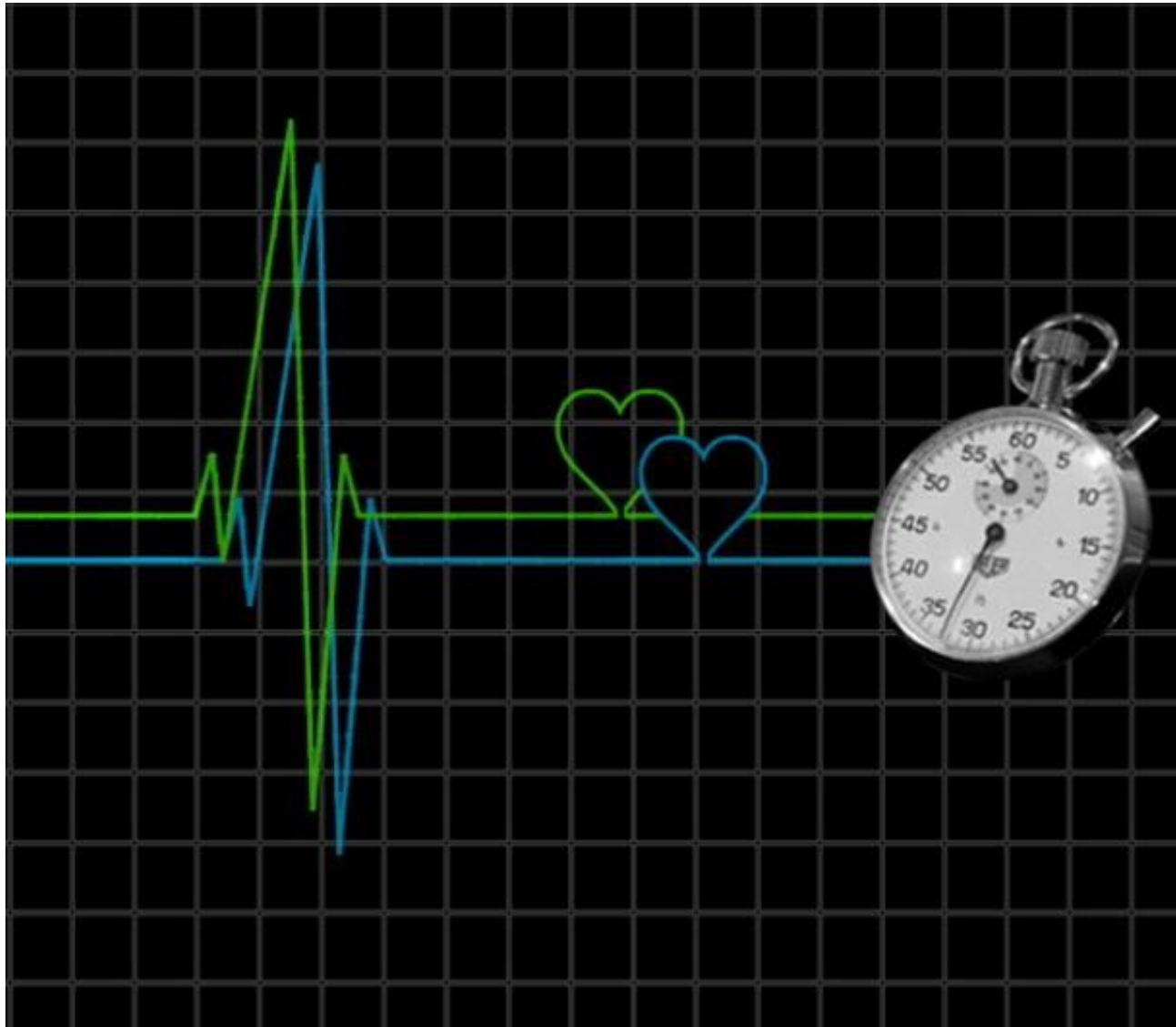
Non-Pregnant women

Chest compression **30 % CO**



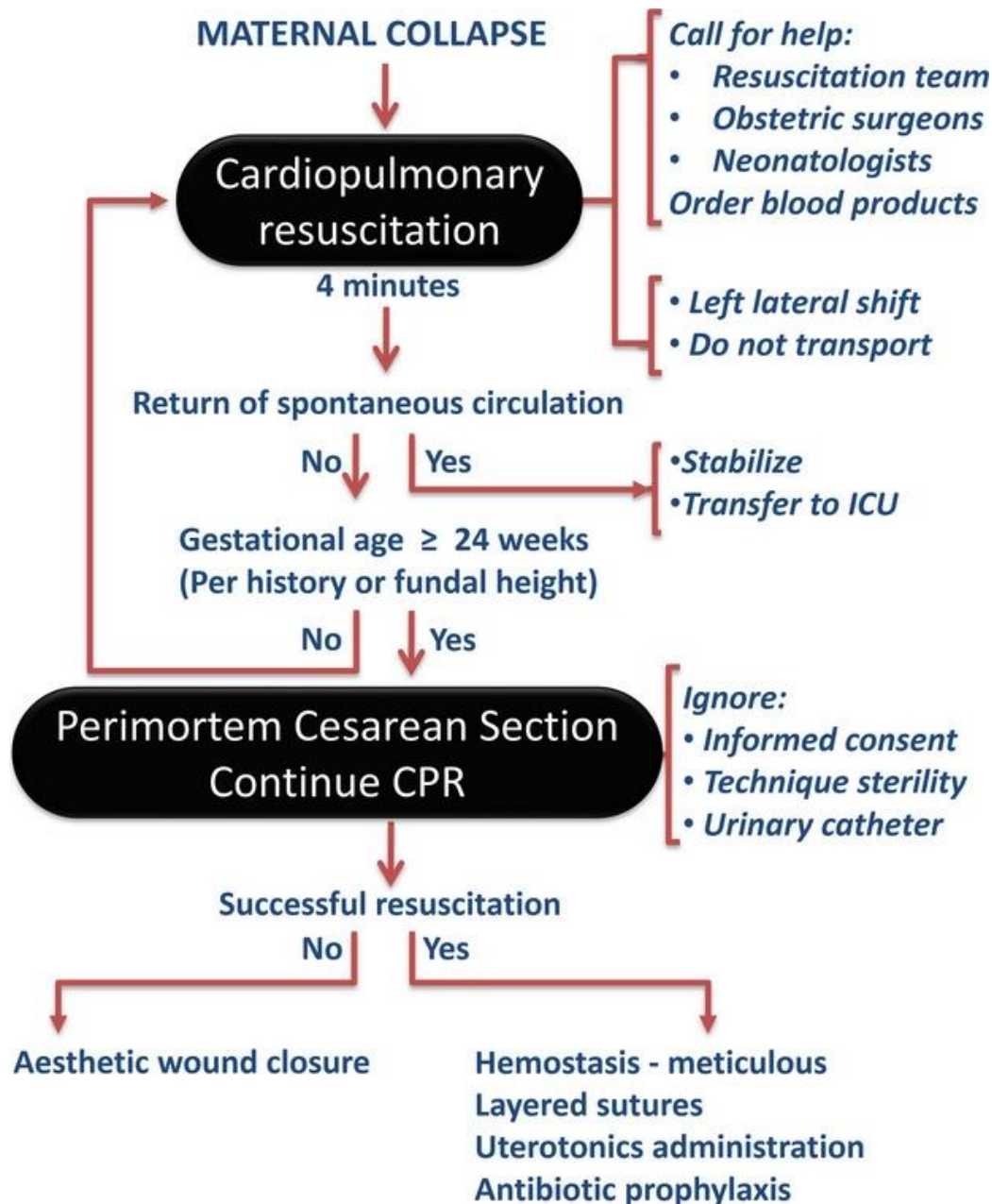
Third Trimester

Chest compression **10 % CO**



Maternal collapse: Challenging the four minute rule.

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<https://www.vroom.be/nl/nieuws/video-de-snelste-bandenwissel-in-de-geschiedenis-van-de-formule-1-22014/>

Snelheid sectio; incisie tot geboorte

1. Normaal (**Maayan-Metger et al 2010**) N = 915 sectio's
gemiddelde tijd
< 10 min **6.3 minuten** n = 777
> 10 min **13 minuten** n = 138
➤ (Repeat 19.8 minuten)

2. Maternal-Fetal Medicine Network (2006) n = 3323
< 3 minuten **9%**

3. Super spoedsectio's (**Pearson en Mackenzie 2013**) n = 55/1379
Mediaan 2 min !

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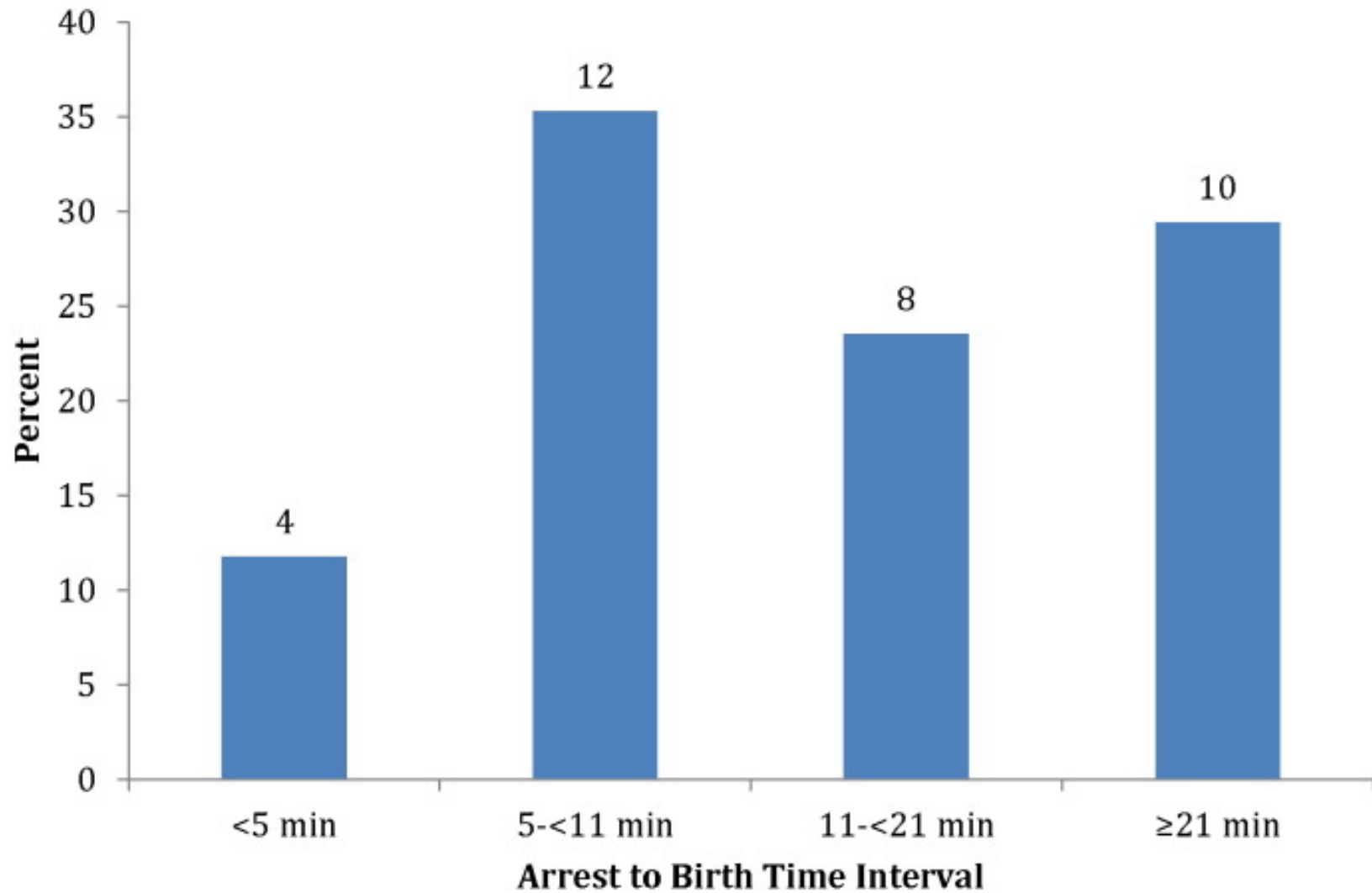
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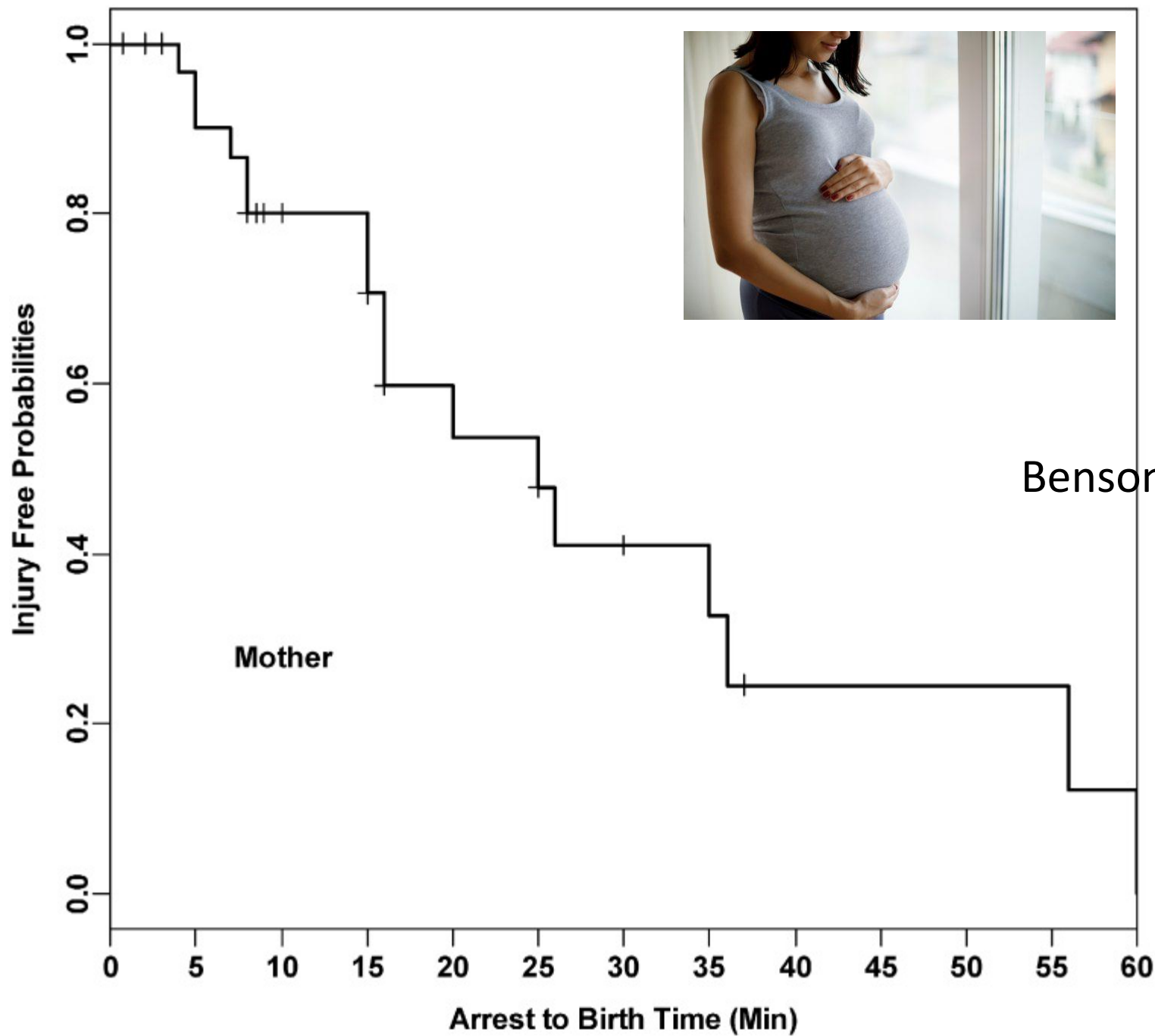
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Test Scores	<i>Before</i> Intervent.	<i>After</i>	Change	<i>p value</i>
Knowledge %				
Mean SD	59	73	14	0.016
Median	65	75	10	
Min – max	45–70	65-80	0-35	
Self reported confidence				
Mean	22.2	29,9	7	0.07
Median	24	32	7	







Benson et al. 2016

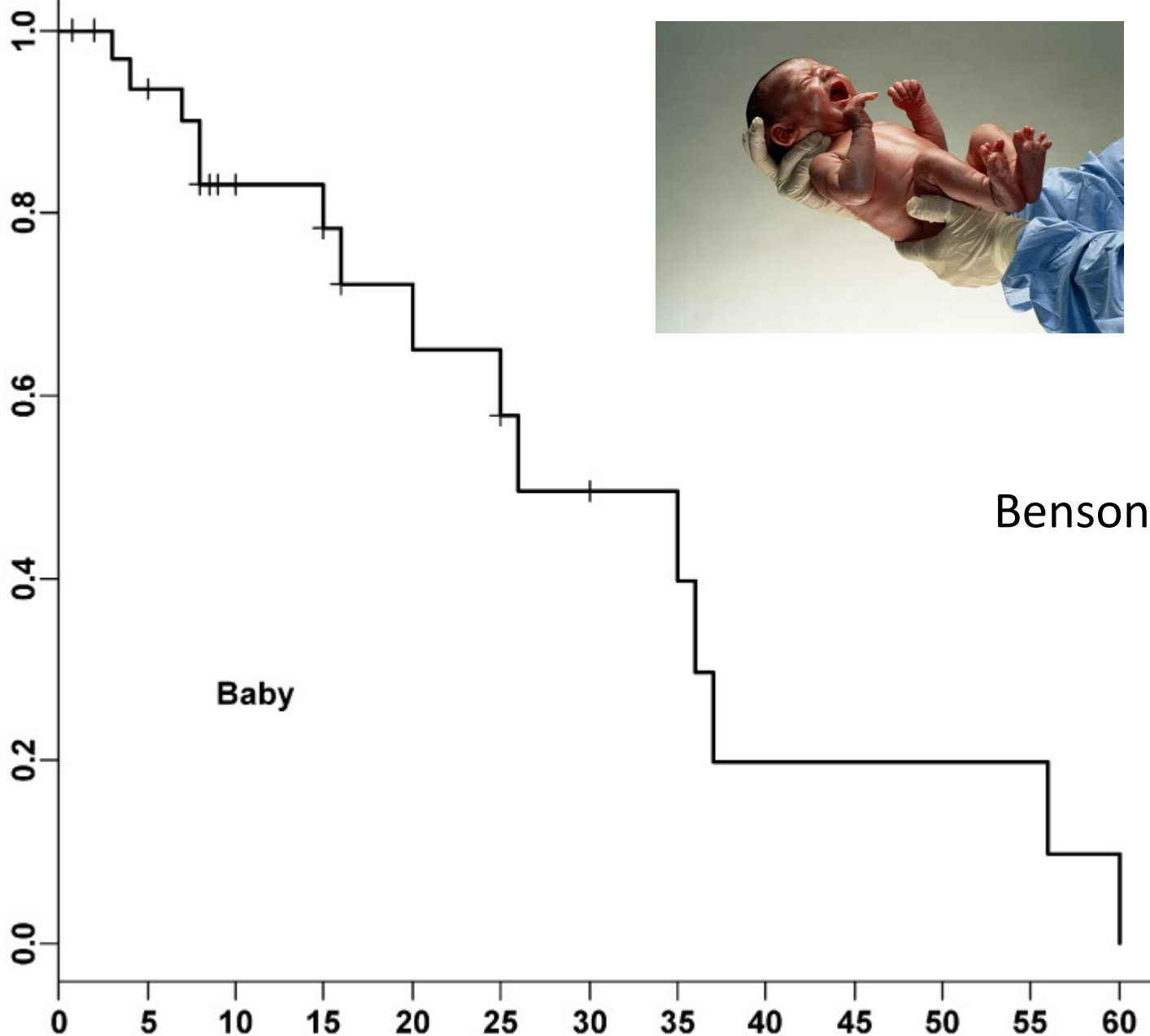


Injury Free Probabilities

Baby

Benson et al. 2016

Arrest to Birth Time (Min)





Take Home message

<u>Oorzaken:</u>	Breed scala (niet relevant en vertragend)
<u>Management:</u>	Snelle multidisciplinaire (protocolaire) effort
<u>Prognose:</u>	Time counts !

50 % overleving “arrest to birth” moeder en kind: **25 & 26 minuten**

Vragen? p.jira@jbz.nl