

# Maternelle risikofaktorer for cerebral parese hos barnet

Tanja Gram Petersen  
Ph.D., Klinisk epidemiolog  
CPOP dag 21. maj 2019



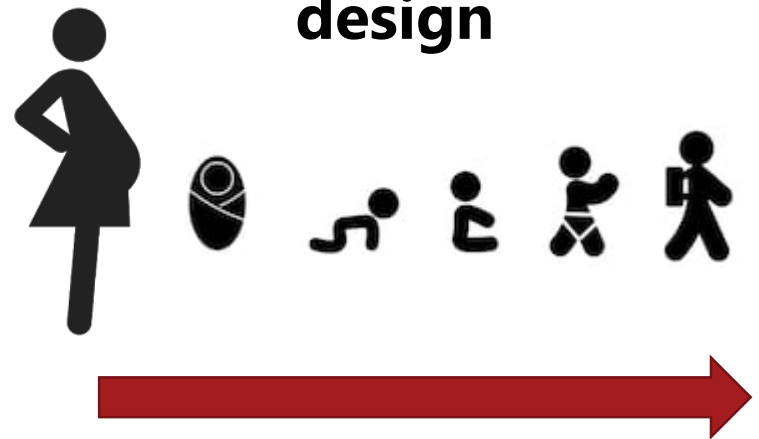
# BAGGRUND



**Retrospektivt  
design**



**Prospektivt  
design**



≈ 200.000 børn i MOBAND (MOTHERS and BABIES in Norway and Denmark) kohorten



Det norske cerebral parese register

≈ 1,3 mio. børn i danske registre



Det danske cerebral parese register

# MILDE SMERTESTILLENDE MEDICINER I GRAVIDITETEN



*International Journal of Epidemiology*, 2018, 121–130

doi: 10.1093/ije/dyx235

Advance Access Publication Date: 14 November 2017

Original article



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Prenatal and Early Life Exposures

## **Use of paracetamol, ibuprofen or aspirin in pregnancy and risk of cerebral palsy in the child**

Tanja Gram Petersen,<sup>1\*</sup> Zeyan Liew,<sup>2</sup> Anne-Marie Nybo Andersen,<sup>1</sup>  
Guro L Andersen,<sup>3</sup> Per Kragh Andersen,<sup>4</sup> Torben Martinussen,<sup>4</sup>  
Jørn Olsen,<sup>5</sup> Cristina Rebordosa,<sup>6</sup> Mette Christophersen Tollånes,<sup>7</sup>  
Peter Uldall,<sup>8</sup> Allen J Wilcox<sup>9</sup> and Katrine Strandberg-Larsen<sup>1</sup>

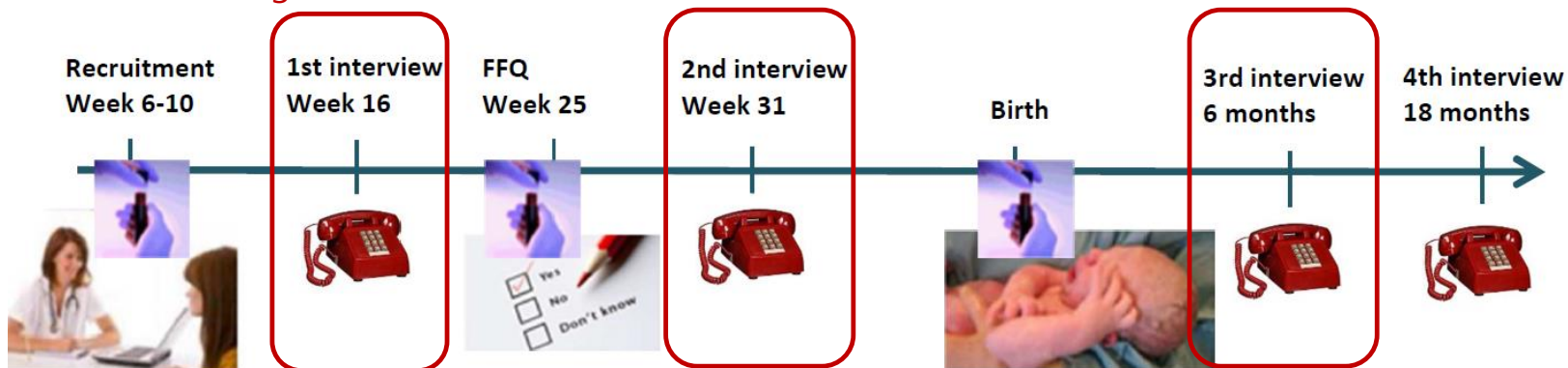


# MOBAND DATA



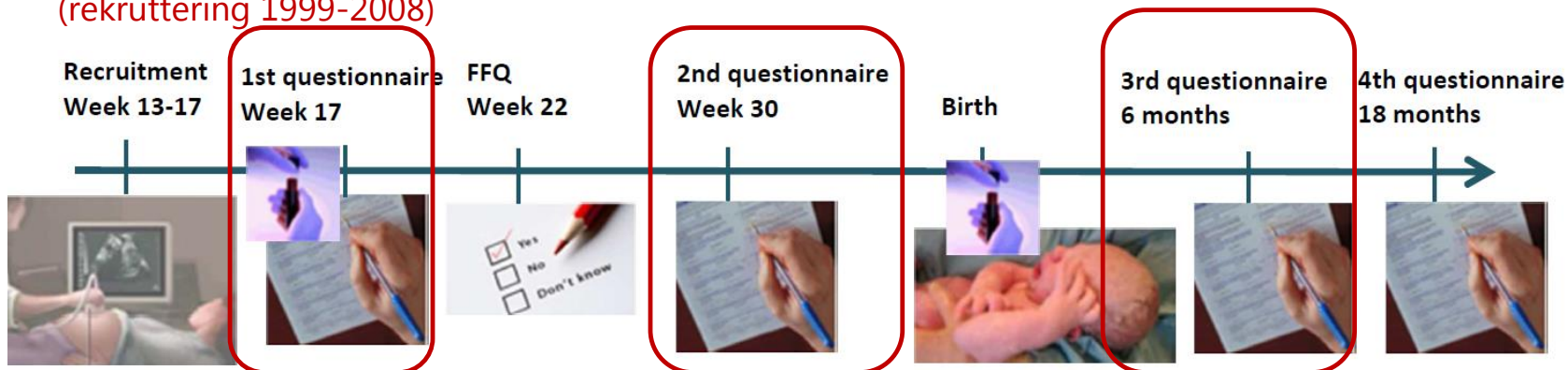
Bedre sundhed  
i generationer

(rekruttering 1996-2002)



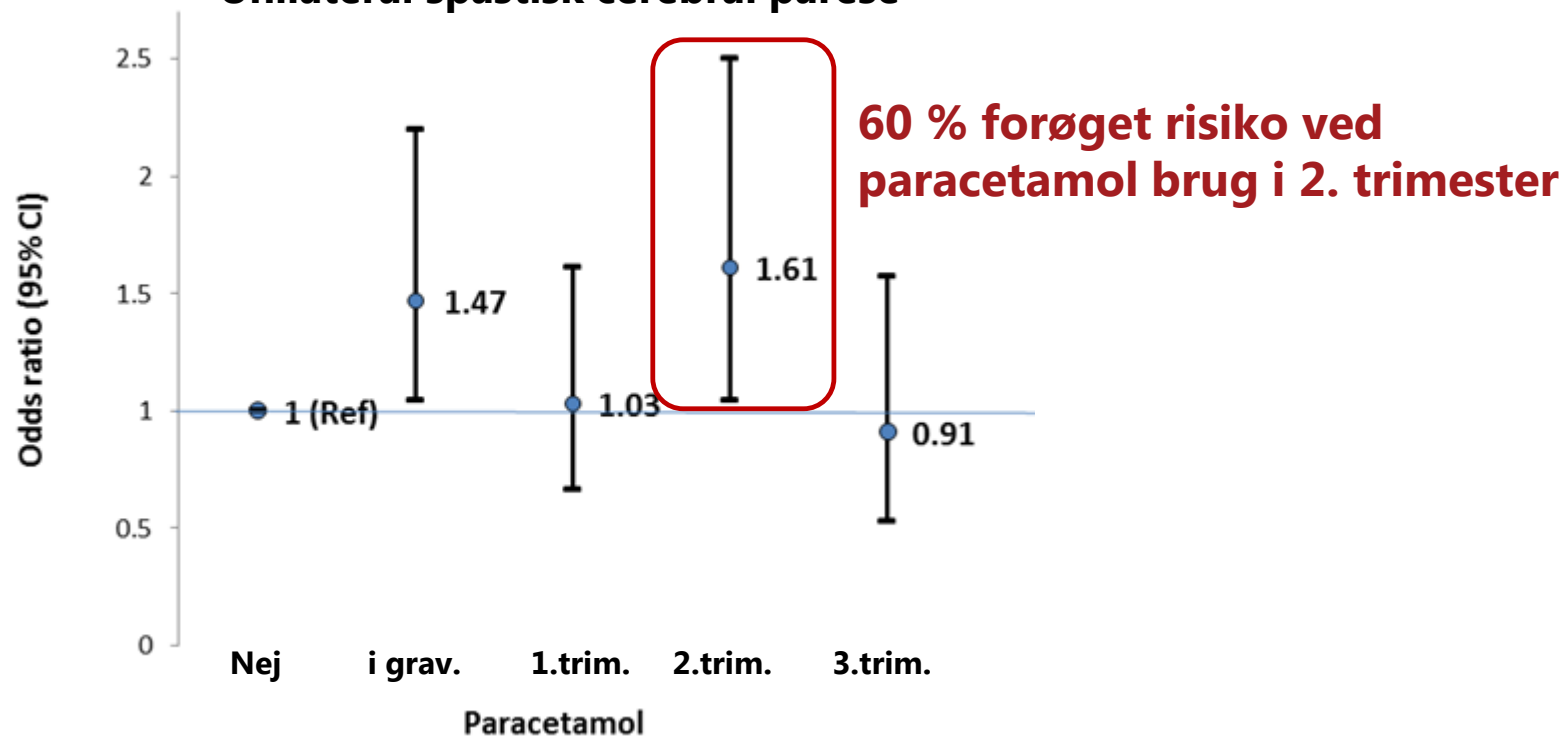
## Den norske **mor og barn**-undersøgelsen

(rekruttering 1999-2008)



# RESULTATER - MOBAND

## Unilateral spastisk cerebral parese

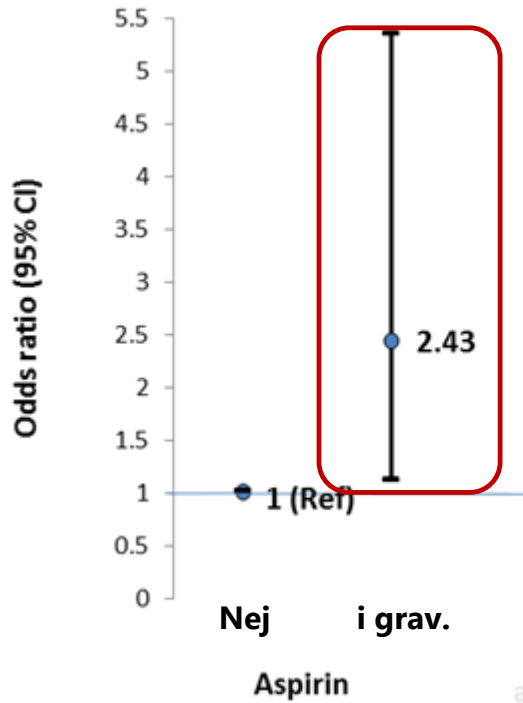


Inverse probability weighting justeret for fødselsår, maternal erhvervsstatus, body-mass-index, IVF behandling, rygning, brug af andre milde analgetika, luftvejs infektion, feber og urinvejs infection under graviditeten.



# RESULTATER - MOBAND

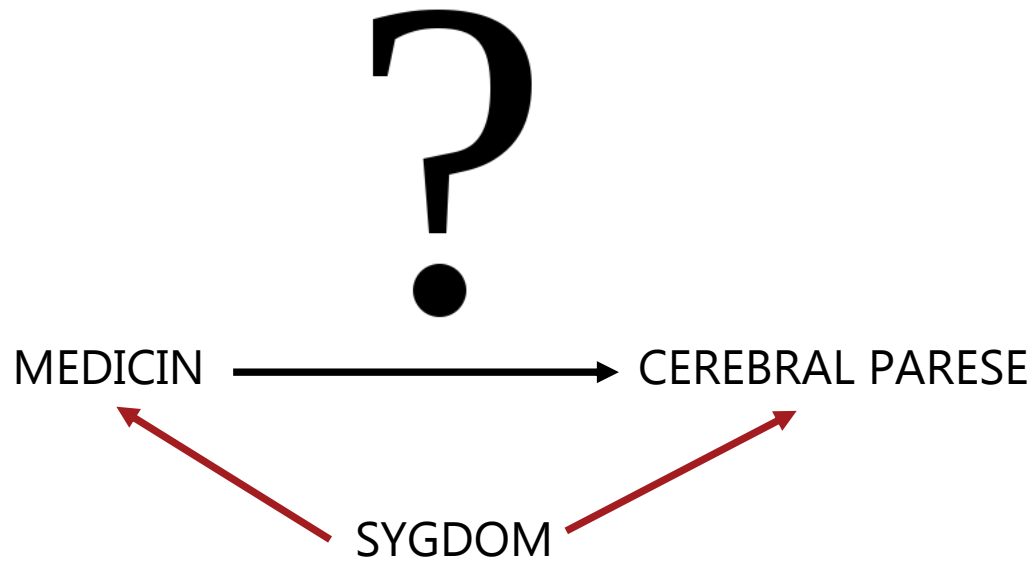
## Bilateral spastisk cerebral parese



**2,5 gange forøget risiko ved aspirin brug i graviditeten**

Inverse probability weighting justeret for fødselsår, maternal erhvervsstatus, body-mass-index, IVF behandling, rygning, brug af andre milde analgetika, luftvejs infektion, feber og urinvejs infection under graviditeten.

# BEGRÆNSNINGER



# MATERNEL THYROIDEA SYGDOM

Petersen *et al.* *BMC Pediatrics* (2018) 18:181  
<https://doi.org/10.1186/s12887-018-1152-5>


BMC Pediatrics

RESEARCH ARTICLE

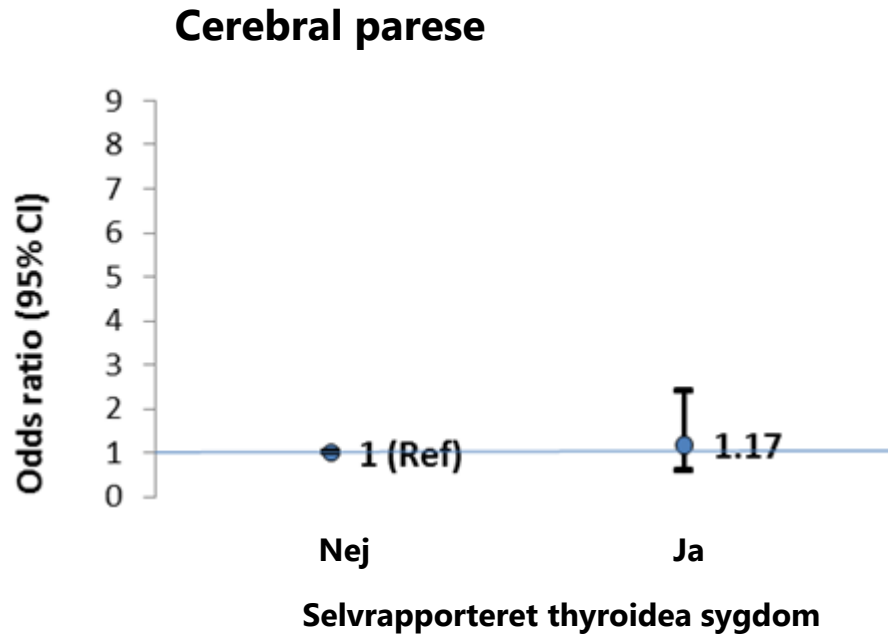
Open Access

Maternal thyroid disorder in pregnancy and risk of cerebral palsy in the child: a population-based cohort study



Tanja Gram Petersen<sup>1\*</sup> , Anne-Marie Nybo Andersen<sup>1</sup>, Peter Uldall<sup>2</sup>, Nigel Paneth<sup>3</sup>, Ulla Feldt-Rasmussen<sup>4</sup>, Mette Christophersen Tollånes<sup>5</sup> and Katrine Strandberg-Larsen<sup>1</sup>

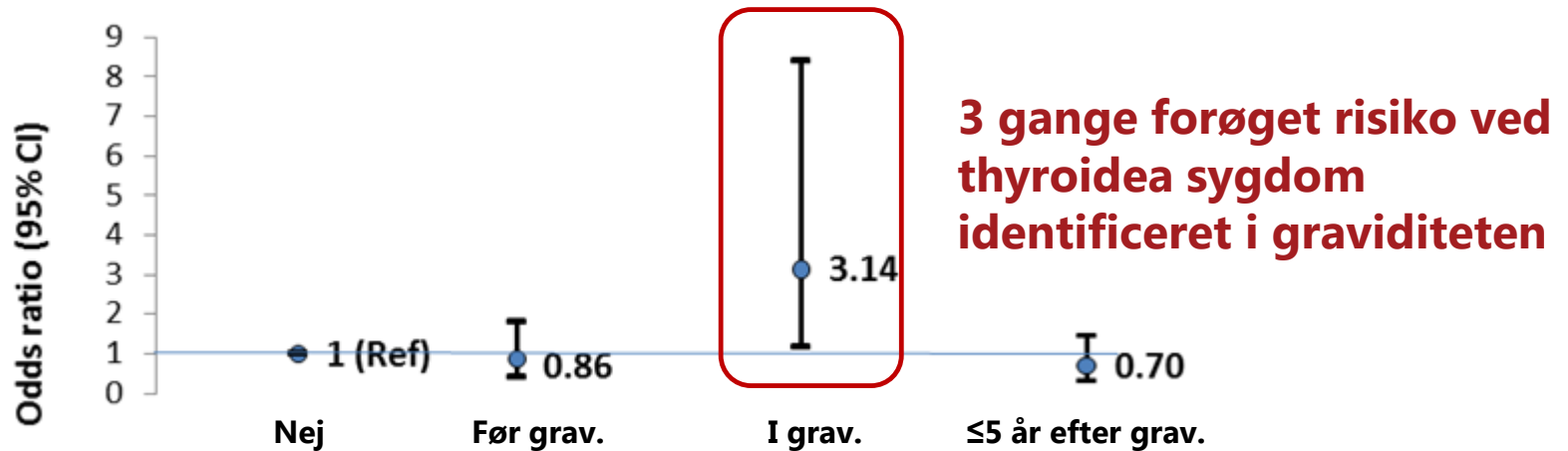
# RESULTATER - MOBAND



Multipel logistisk regression justret for fødselsår, maternel alder, maternel diabetes, marternel uddannelsesniveaue, rygning og alkohol indtag i graviditeten

# RESULTATER – Register baseret

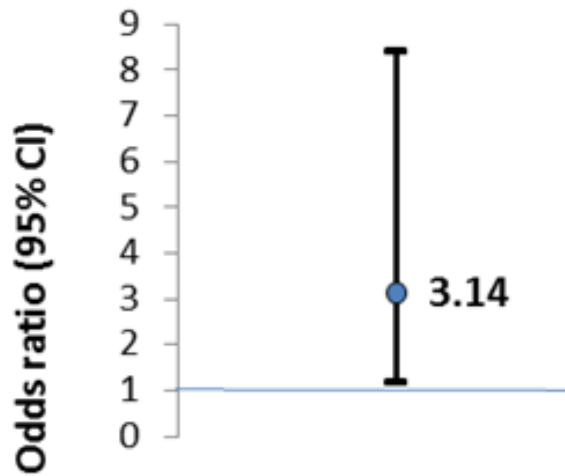
## Unilateral spastisk cerebral parese



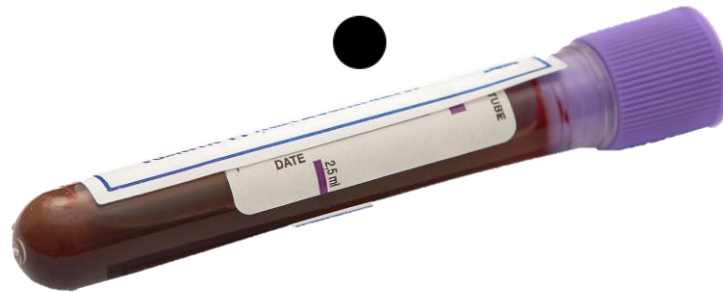
## Registreret thyroidea sygdom (diagnose eller indløst recept)

Multipel logistisk regression justret for fødselsår, maternel alder, maternel diabetes, maternel uddannelsesniveau, rygning og alkohol indtag i graviditeten

# BEGRÆNSNINGER



?



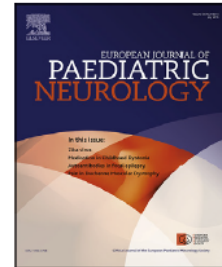


# Efterkommere af immigranter



ELSEVIER

Official Journal of the European Paediatric Neurology Society



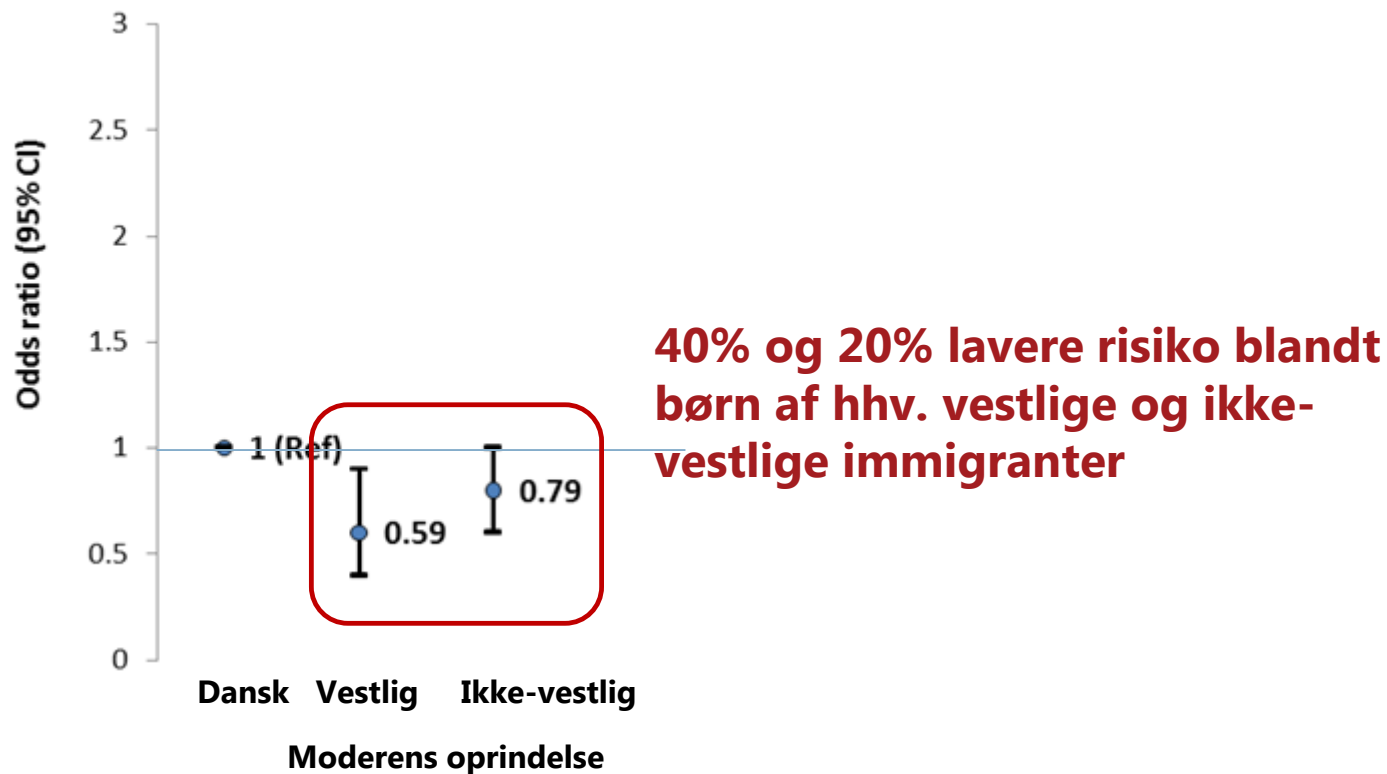
## Original article

## Cerebral palsy among children of immigrants in Denmark and the role of socioeconomic status

Tanja Gram Petersen <sup>a,\*</sup>, Ingeborg Forthun <sup>b,c</sup>, Theis Lange <sup>a</sup>,  
Sarah Fredsted Villadsen <sup>a</sup>, Anne-Marie Nybo Andersen <sup>a</sup>, Peter Uldall <sup>d</sup>,  
Katrine Strandberg-Larsen <sup>a</sup>

# RESULTATER – Register baseret

## Unilateral spastisk cerebral parese

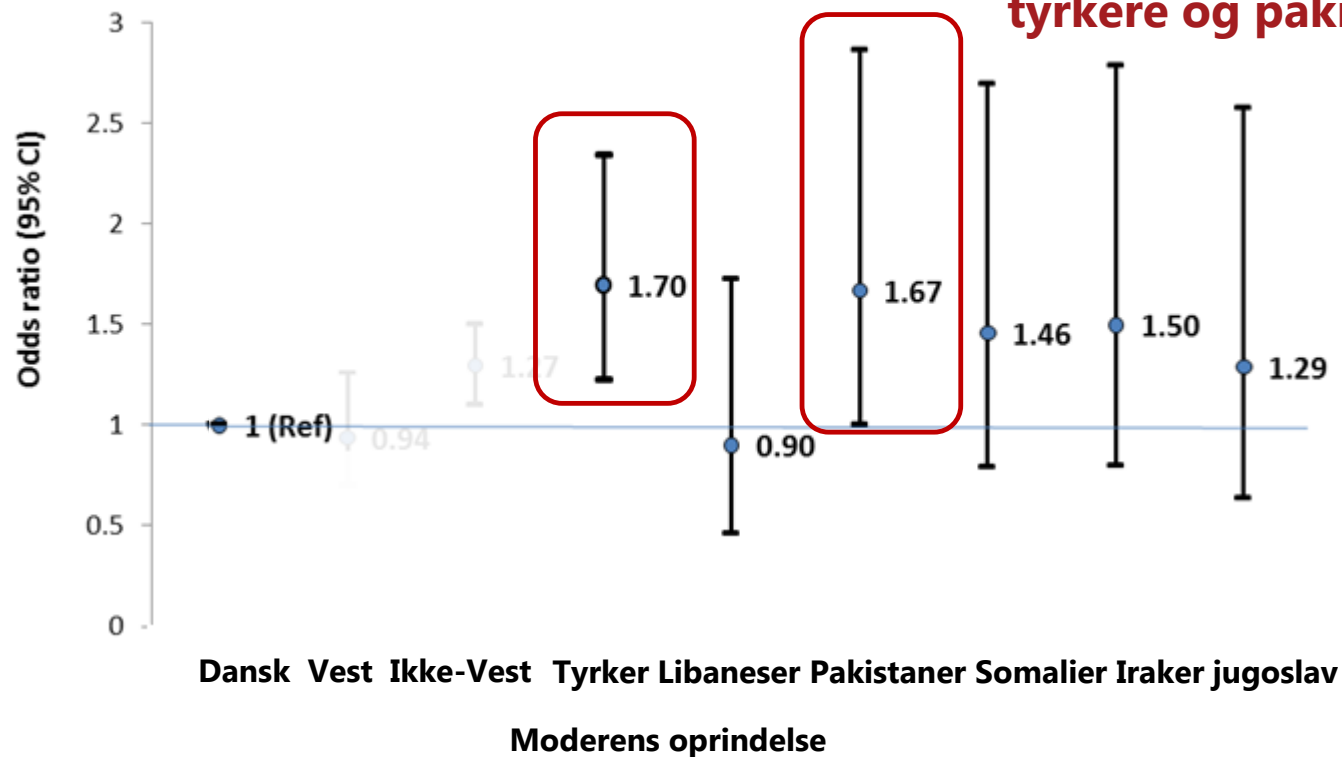


Multipel logistisk regression justret for fødselsår

# RESULTATER – Register baseret

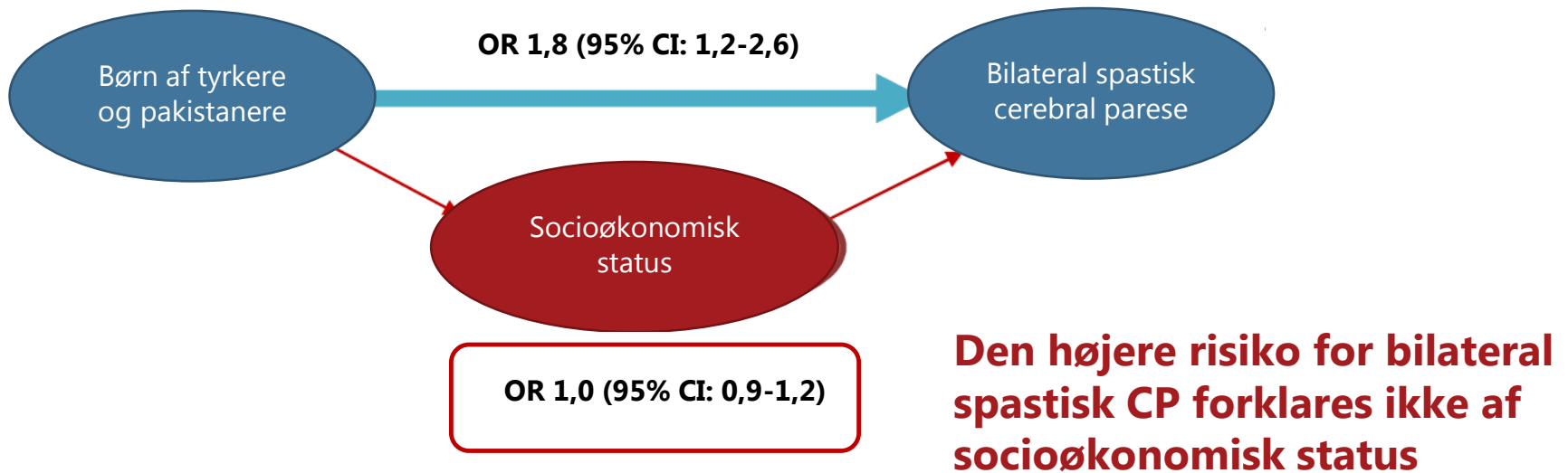
## Bilateral spastisk cerebral parese

70% højere risiko blandt børn af tyrkere og pakistanere



Multipel logistisk regression justret for fødselsår

## Paper IV – Maternal immigrant status and cerebral palsy



# KONKLUSION

Danske og norske data giver unikke muligheder for at undersøge prænatale risikofaktorer for CP

Disse studier bidrager med mere viden om risikofaktorer for CP – men der er stadig lang vej før vi forstår de fulde årsagsmekanismer



# Tak for jeres opmærksomhed!



elsass  
fonden

**BEVICA**