

## IS TEENAGE PREGNANCY AN OBSTETRIC RISK IN A WELFARE SOCIETY?

**A population-based register study in Finland, from 2006 to 2011.**

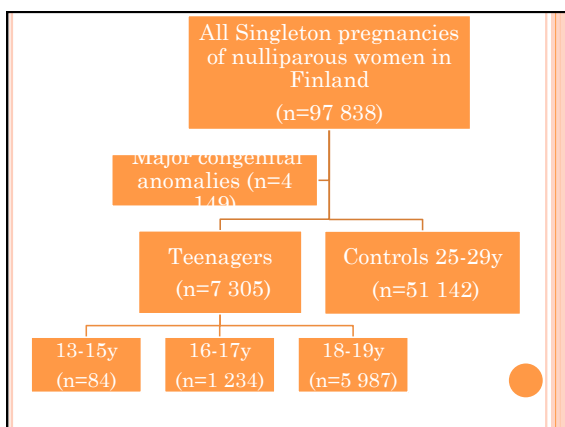
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### TEENAGE PREGNANCY IN THE DEVELOPED WORLD: A SOCIAL OR MEDICAL CONCERN?

Teenage births per 1000 women aged 15-19 years

- Low incidence of teenage births and comprehensive antenatal care system.
- So what's the problem:
  - Marginalisation? Social inequality?
  - Biological age?
- Obstetric problems : Maternal anaemia, preterm birth, stillbirth/neonatal mortality, others?

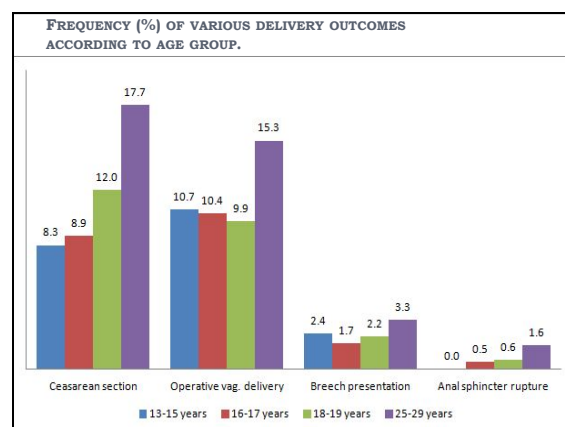


#### DEMOGRAPHIC CHARACTERISTICS (%) ACCORDING TO AGE GROUP

	13-15 years (n=84)	16-17 years (n=1 234)	18-19 years (n=5 987)	25-29 years (n=51 142)	P for difference
MARRIED OR COHABITING	15.5	48.5	71.0	88.5	<0.001
RESIDENCE: URBAN	61.9	66.5	66.5	73.5	<0.001
SMOKING DURING PREGNANCY	<b>33.3</b>	<b>41.3</b>	<b>35.5</b>	<b>7.0</b>	<0.001
ALCOHOL OR DRUG MISUSE	<b>3.6</b>	<b>1.1</b>	<b>1.1</b>	<b>0.2</b>	<0.001
UNDERWEIGHT	<b>19.0</b>	<b>12.6</b>	<b>9.6</b>	<b>3.6</b>	<0.001
HISTORY OF SP. ABORTIONS	2.4	4.1	8.0	11.7	<0.001
PRE-EXISTING HYPERTENSION	0	0.1	0.1	0.2	0.026
PRE-EXISTING DIABETES	0	0.6	0.7	0.7	0.834

#### RISKS OF ADVERSE OBSTETRIC OUTCOMES AMONG TEENAGERS ACCORDING TO AGE GROUP, ADJ. OR (95% CI).

	13-15 years (n=84)	16-17 years (n=1 234)	18-19 years (n=5 987)
ANAEMIA (<100 g/l)	<b>3.1 (1.3 to 7.3)</b>	<b>2.2 (1.7 - 2.9)</b>	<b>1.8 (1.6 - 2.1)</b>
PRE-ECLAMPSIA	<b>3.7 (1.5 to 9.0)</b>	0.9 (0.6 - 1.4)	<b>1.2 (1.0 - 1.5)</b>
ISOLATED PROTEINURIA	<b>12.3 (2.8 - 53.6)</b>	<b>2.4 (1.1 - 5.2)</b>	<b>1.6 (1.0 - 2.5)</b>
ECLAMPSIA	No cases	2.3 (0.3 - 18.2)	<b>3.3 (1.4 - 7.8)</b>
URINARY TRACT INFECTION	No cases	<b>4.1 (1.7 - 10.2)</b>	<b>2.7 (1.6 - 4.6)</b>
PYELONEPHRITIS	No cases	<b>9.6 (4.2 - 21.9)</b>	<b>5.8 (3.4 - 10.0)</b>
PRETERM DELIVERY (<37 w)	<b>2.5 (1.2 - 5.3)</b>	1.0 (0.8 - 1.4)	0.9 (0.8 - 1.1)
SGA	0.5 (0.1 - 2.1)	1.2 (0.9 - 1.6)	1.0 (0.8 - 1.1)
PRE/NEONATAL DEATH	0.4 (0.0 - 5.1)	0.6 (0.1 - 2.7)	1.4 (0.8 - 2.4)



**RISKS OF ADVERSE OUTCOMES AMONG TEENAGERS WITH INADEQUATE ANTENATAL CARE (n=210).**

	Unadjusted OR (95% CI)	Adjusted OR (95% CI)
ECLAMPSIA	<b>9.5 (2.0 to 45.9)</b>	<b>12.6 (2.6 to 62.6)</b>
URINARY TRACT INFECTION	<b>4.2 (1.2 to 13.9)</b>	<b>5.8 (1.7 to 19.7)</b>
PRETERM DELIVERY (37 w)	<b>4.1 (2.8 to 6.0)</b>	1.1 (0.7 to 1.7)
APGAR AT 5 MIN <7	<b>2.7 (1.4 to 5.1)</b>	1.9 (0.8 to 4.3)
INTENSIVE CARE OF NEWBORN	<b>1.6 (1.1 to 2.3)</b>	1.0 (0.6 to 1.7)
STILLBIRTH/ NEONATAL DEATH	<b>6.0 (2.3 to 15.7)</b>	0.7 (0.1 to 7.1)

**IN CONCLUSION:**

- o Teenage pregnancy was associated with adverse obstetric outcomes, especially various maternal pregnancy complications.
- o Teenage pregnancy was not associated with delivery complications, and the overall cesarean section frequency was lower among teenagers.
- o **Socioeconomic factors, younger age and inadequate antenatal care** may all play a role behind the risks.

Thank You  
for your  
attention!

