## PERINATOLOGIC OUTCOMES OF CHILDREN BORN AS A RESULT OF IN VITRO FERTILISATION IN THE CZECH REPUBLIC DURING 2000 - 2006: CONGENITAL ANOMALIES AND BIOSOCIAL FACTORS

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Aim and type of study: Neonatal data on a cohort of 22 949 children born as a result of In Vitro Fertilisation (IVF) in the Czech Republic (CR) compared with a cohort of 649 595 naturally conceived (NC) children. Analysis of perinatal data – birth weight, gestational age, maternal age, fetal number, sex ratio and the occurrence of congenital anomalies (CA). Material and methods: A retrospective epidemiological analysis of perinatal data from the National Registry of Births and the National Registry of Congenital Anomalies in the CR during 2000 – 2006. Results: During this period, there were 22 949 children born as a result of IVF with a sex ratio M/F of 1.03. From this total number there were 46.89% twins and 53.12% singletons. During the same period 649 565 NC children were born, with a sex ratio M/F of 1.06. From this total number there were 96.94% singletons and 3.06% twins. In IVF/non-IVF cohort the average gestational age in weeks was 37.9239.37, the average birth weight was 2780.7293321.71g and the average metal age in years was 30.66/27.43. Prematurity below the 28th week in the IVF children cohort (ncl distinguishing the fetal number) was 1.20%/0.27% for prematurity below the 28th week in the IVF children cohort was found in the singleton pregnancies (1.23% in the IVF cohort 9. 0.22%) in the non-IVF cohort 9.8 999 (ELBW) in the IVF/non-IVF cohort was found in the singleton pregnancies (1.23%) in the IVF cohort 9. 0.22% in the on-IVF cohort 9.8 999 (ELBW) in the IVF/non-IVF cohort as found in 2.32%/0.33% of the whole cohort. The incidence of CA was 440.6 in 10.000 live births was 349.5 Gin singletons and 362.80 in twins. In the IVC cohort, 5. 4 average material age in weight in the IVF cohort 0.35.71 in 10.000 live births in the VC children cohort. In the IVF group, the incidence of CA per 100 00 live births was 349.06 in singletons and 362.80 in twins. In the IVC children cohort, the incidence of CA per 100 00 live births was 349.06 in singletons and 362.80 in thuins. In the IVC children cohort, the inc









ects NC :

2002 2003 2004 2005 2004





ELBW, LBW and "other" - singletons - NC x IVI ELBW, LBW and ...other" - twins - NC x IVE ELBW, LBW and ...other" - total - NC x IVF IVF tota FLBW I BV ELBV per – and eutrophy birth weight singletons – NC x IVF Hvp and eutrophy birth w vins – NC x IVF Hypo-, Hype - and eutrophy total – NC x IVF NC singletons IVF sing Sex ratio -total births - NC x IVE Sex ratio by twinning – birth de birth defects IVF Sex ratio - birth defects NC x birth defects IVF



Proportion of singletons and twins - NC x IVE

3500 3000 2500



Birth defetcts in births - NC x IVF

NC male NC Female IVE male IVF fo

twins

Birth defetcts - prenatal diagnosis - NC x IVE

Sex ratio - singletons and twins - NC x IVF

sinale

49 49 48





Birth defetcts by diagn osis – NC x IVF



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