

CLINICAL MANAGEMENT SPECIFITIES IN PGD CYCLES

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Clinical Management

- Patient selection
- Patient counselling
- PGD possibility assessment
- IVF ability assessment
- Risk assessment
- Informed consent
- PGD cycle

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Patient selection

- Prognosis quo ad graviditatem
- Prognosis quo ad fertilitatem
- Prognosis quo ad IVF
- Prognosis quo ad PGD

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Patient counselling

- › High risk PGD
 - Clinical geneticist consultation unavoidable
- › Low risk PGD (PGS)
 - Skilled Reproductive specialist consultation fully acceptable (negative history)

CHROMOSOMAL ANALYSIS NECESSARY

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Clinical Management IVF/PGD cycle

- The aim of the PGD/PGS cycle is to obtain a „good“ number of „negative“ embryos with top morphological quality
- The success depends on the number of:
 - › retrieved oocytes – fertilized embryos – TQ embryos – (FISH, PCR) negative TQ embryos

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Number of oocytes is crucial

- What is the „good“ number of oocytes ?
 - › In poor IVF prognosis (age) the chance of „good quality oocyte“ less than 1:7 oocytes !!!
 - › In balanced translocation the chance of having negative embryo in some couples less than 10% !!!
 - › Cut off line has to be defined for every method
- Controlled ovarian hyperstimulation
 - › Stimulation in average more aggressive compared to the standard IVF program (soft protocols in general are useless)
 - › Client selection and risk assessment necessary !

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Low response - poor oocyte quality

- ◉ If poor quality of oocytes – excluding criteria
- ◉ If good number of quality oocytes is not available:
 - > „storing“ cycles (embryos from more cycles are set aside both frozen and fresh and than one PGD diagnosis is performed)
 - > Question of freezing in PGD cycles – in storing cycles preferentially cryopreserved PN

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Stimulation management

Necessary condition:

- IVF unit - very good experience with risk patients' stimulation required
 - Risk of OHSS
 - Risk of low response
- Stimulation tailoring (optimal protocol - optimal dose)
- Doses of gonadotropins are varying
 - 37 IU – 600 IU per day

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Risk assessment

- ◉ Previous IVF stimulation assessment
- ◉ In first cycles:
 - ovarian reserve – natural cycle, FSH, ultrasound
 - thyroid gland
 - Thrombophilic mutation (repetitive ab., positive history)
- ◉ If any risk is suspected – more evaluations

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Informed consent

Clients expect:

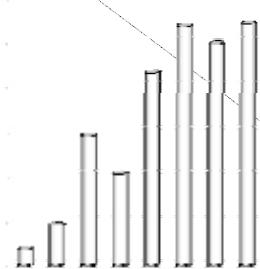
- Easy to understand
- Mother tongue
- Possibility to ask questions
- Opportunity to have time enough to make their decision

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Results of the QMS implementation

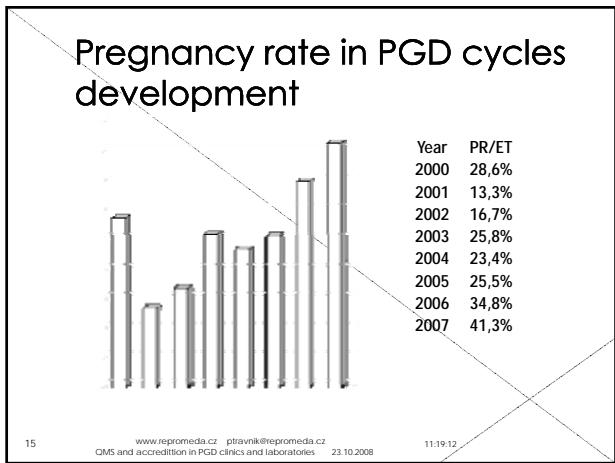
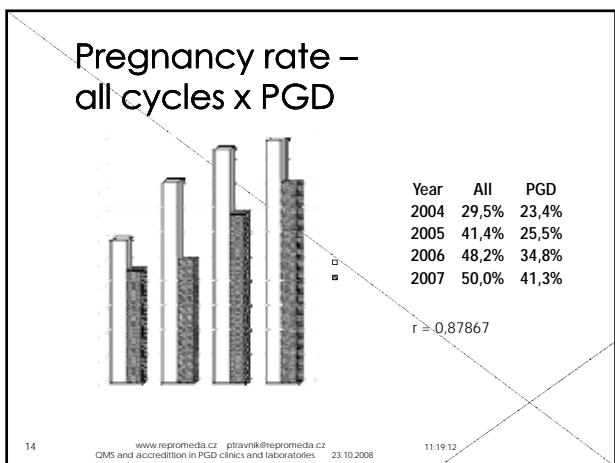
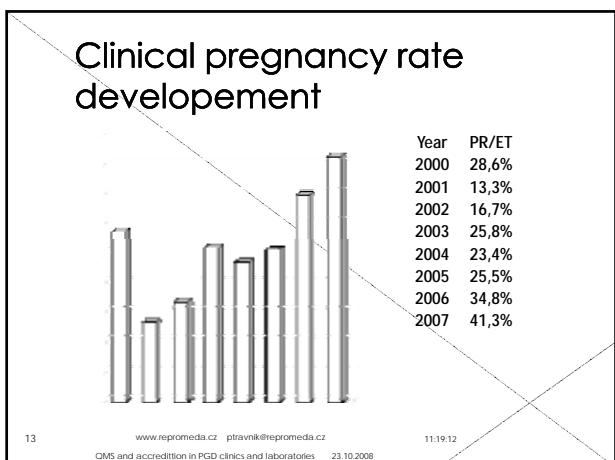
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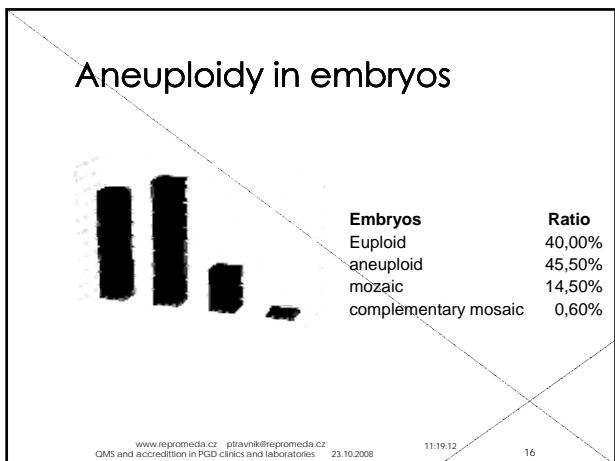
Number of cycles development



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Are there any differences
between standard IVF
and PGD cycle ?
YES, there are.

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