# Human Health & Physiology

In vitro fertilization (IVF)

### In vitro fertilization

- "Test tube baby"
- Ovary is treated with hormones (FSH) to stimulate development of many follicles
- Mature eggs are retrieved and mixed with sperm in a petri dish
- After 2 days, 2 or 3 fertilized embryos are transferred into the uterus
- Chances of success = 25%

### In vitro fertilization

#### **Pros**

- Infertile couples (or couples with fertility issues) are able to have children
- Possibility of pre-screening embryos for genetic disease before implantation

### In vitro fertilization

#### Cons

- High risk of multiple births
- Not all embryos are implanted
  - May be destroyed
- Expensive

## Costs associated with IVF

- Consult = \$0-200
- $\circ$  IVF = \$4300-5500
- Embryo freezing (1st year) = \$480-650
- Annual embryo storage = \$150-300
- Frozen embryo transfer = \$540-1100

### Costs associated with IVF

- In Ontario, OHIP covers IVF costs only in cases where both fallopian tubes are naturally blocked
- The rest is paid out of pocket
- o In Quebec, 3 rounds of IVF are covered
- Each round will see 3 embryos implanted

- Taxes paid on IVF not a quality of life issue
- Should we cover IVF?
- Is the ability to have children a basic human right?
- Should tax payers pay for the procedure?
- Why only tubal blockages receive coverage? What about men? Is this discrimination?

- What about the potential for "designer" babies?
- Greater likelihood of premature births and multiple births = greater stress on our healthcare system
- Amoral for some religions

#### Catholicism

- www.catholicnewsagency.com/column. php?n=1186
  - 1. Children should be born within marriage
  - You shouldn't separate sexual intercourse from conception
  - 3. Some inherent health risks
- Should have faith in God to choose

#### Islam

- http://islamga.info/en/ref/98604/ivf
  - Faith in Allah to decide whether you should have children or not
    - a) Permissible under certain conditions
  - 2. Modesty issues with male doctors
  - 3. Men not allowed to masturbate
  - 4. Sanctity of marriage

#### Hinduism

 Acceptable provided that egg and sperm are from a married couple

• Viewpoints from other religions/creeds/beliefs?