

### Normal Semen Parameters

- Volume  $\geq 2.0$  ml
- pH 7.2-8.0
- Sperm concentration  $\geq 20 \times 10^6/\text{ml}$
- Total sperm count  $\geq 40 \times 10^6/\text{ejaculate}$
- Motility (within 60 min. of ejaculation)
  - $\geq 25\%$  with rapid progression
  - $\geq 50\%$  with forward progression
- Vitality
  - $\geq 75\%$  live
  - $\leq 25\%$  dead
- Morphology  $\geq 30\%$  normal forms
- White blood cells  $< 1 \times 10^6/\text{ml}$
- Immunobead test and mixed antiglobulin reaction for antisperm antibodies  $< 50\%$

Used with permission from Balen, AH, Rutherford, AJ. Management of Infertility. *BMJ* 2007; 335:608-611.