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**COURSE: PHYSIOLOGY**

**DEPARTMENT: NURSING**

**FACTORS FACILITATING THE TRANSPORT IN THE FEMALE REPRODUCTIVE TRACT**

1. SEMEN:
2. Alkaline secretions from prostate gland into semen.
3. Prostaglandins cause myometrial contractions.
4. FEMALE REPRODUCTIVE TRACT:
5. Oestrogen and oxytocin cause myometrial contractions.
6. Oestrogen facilitate the production of watery mucus in the cervix.
7. CAPACITATION OF SPERM:
8. This occurs after the sperm membrane becomes more fluid via the removal of cholesterol and removal of proteins and carbonhydrates from the membrane that may otherwise block sites that bind to zona pellucida.
9. A change in membrane potential that permits Ca2+ to enter the sperm via a voltage-gated mechanism to facilitate vesicle release for the acrosome reaction.
10. Phosphorylation of numerous proteins needed in fertilization.