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Assignment Title: fertilization

Course Title: Renal Physiology, Body fluid & Temperature Regulation and Autonomic Nervous System

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Question

Discuss the factors facilitating the movement of sperm in the female reproductive tract

1. Neutralization of the vaginal PH: the seminal plasma has the potential to neutralize the PH of the vaginal acid in order to allow movement of the sperm
2. Protective coating of sperm: seminal plasma also contains inhibitors of immune of immune responses, including protective components that coat sperm during motility. These inhibitors are most effective when sperm are bathing in seminal plasma and may be gradually shed when sperm leave the seminal plasma behind.
3. Insemination of many sperm: Males may also overcome female defenses by inseminating many sperm. This strategy is particularly effective for overcoming cellular immune responses.
4. Thinning of the cervical mucus : The cervical mucus in the female reproductive tract become watery and less thick to allow the passage of sperm
5. Myometrium contractions: Transport of sperm through the uterus is aided by pro ovarian contractions of the myometrium. Rapid transport of sperm through the uterus by myometrial contractions can enhance sperm survival by propelling them past the immunological defenses of the female.