

NAME: FASIPE OLUBUNMI ASHLEY

MATRIC NO: 18/MHS02/084

COURSE: PHYSIOLOGY

COURSE CODE: PHS 212

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

Alkaline secretion from prostate gland into semen helps create an alkaline environment in the acidic vagina to protect sperm in the vagina.

Prostaglandins present in the semen and present in the Female Reproductive Tract facilitates myometrial contractions to help the movement of sperm towards the oviduct.

Oestrogen and Oxytocin secreted in the Female Reproductive Tract help to assist myometrial contractions in order to facilitate the upward motility of sperm towards the oviduct

Oestrogen facilitates the production of watery mucus in the cervix during the timing of ovulation to allow easy passage of sperm.

In the Female Reproductive Tract, sperm undergoes capacitation. This occurs after the sperm membrane becomes more fluid via the removal of cholesterol and glycoproteins from the membrane in order to expose the zona pellucida binding site

Change in sperm membrane potential that permits calcium to enter the sperm to facilitate vesicle release for acrosomal reaction.

Phosphorylation of numerous proteins needed for fertilization