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### IMPLANTATION

Write short note on implantation

Implantation is the process by which the fertilized ovum called zygote implant (fixes itself ) in the endometrial lining of the uterus. After the fertilization the ovum is known as zygote. Zygote takes 3 to 5 days to reach the uterine cavity from fallopian tube. While travelling through the fallopian tube, the zygote receives its nutrition from the secretions of the fallopian tube.

After reaching the uterus, the developing zygote remains freely in the uterine for 2 to 4 days before it is **implanted**. Thus, it takes about 1 week for implantation after the day of fertilization. During the stay in the uterine cavity before implantation, the zygote receives it's nutrients from the uterine milk. Just before implantation, the zygote develops into a **morula** and then implantation starts. A layer of spherical cells called **trophoblast** cells is formed around morula. Trophoblast cells release proteolytic enzymes over the surface of endometrium. These enzymes digest the cells of the endometrium. Now, morula moves through the digested part of the endometrium and implants itself.