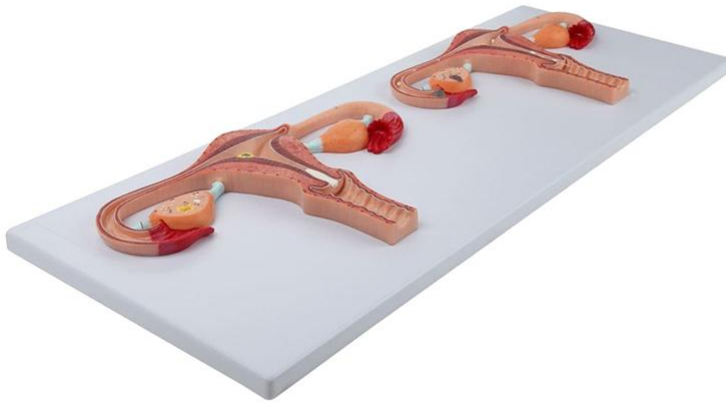




MG19471 | HUMAN FERTILIZATION PROCESS





This enlarged model displays the fertilization process in detail, presenting two distinct models: one showing the uterus, fallopian tubes, and ovaries with their internal components (follicles, corpus luteum, blood vessels); and another illustrating the path taken by the sperm to fertilization. Mounted on a base, the model is numbered and hand-painted, facilitating the study and understanding of the process.

Applications:

Ideal for medical students and professionals, this model is indicated for the study of female reproductive anatomy and the fertilization process. It allows detailed visualization of the structures involved in conception, assisting in learning and training. Its use is suitable in classrooms, laboratories, medical offices, and research centers.

Technical Differentiators:

- * Numbered and hand-painted model in didactic colors;
- * Precise details to facilitate learning;
- * High-precision molding;
- * Manufactured from stable synthetic material and resin, approved in toxicological tests;
- * Anatomical replicas;
- * Includes an information card with the related structures;
- * Polymer base for support.



3D Technology and Augmented Reality:

Our anatomical models offer a visual complement through information cards that activate 3D models viewable in augmented reality (AR). This interactive platform assists learning, allowing comparative analysis of anatomical structures and offering resources for continuing education in anatomy, physiology, and pathophysiology.

Technical Specifications:

- * Scale: life size
- * Material: Synthetic resin
- * Numbered

Main Structures:

Fallopian tube: Muscular tube extending from the ovary to the uterus, responsible for transporting the egg to the uterine cavity and also for transporting sperm towards the egg. Its structure presents different segments: infundibulum, ampulla, isthmus, and intramural part.

Ovary: Female reproductive gland, producer of hormones (estrogen and progesterone) and eggs. It presents ovarian follicles in different stages of development, from primordial follicles to the mature follicle (Graafian follicle), which releases the egg during ovulation.

Ovarian ligament: Structure that anchors the ovary to the uterus, providing support and stability.

Uterine cavity: Internal space of the uterus, where the embryo implants and develops during pregnancy. Lined by the endometrium, a tissue that thickens and prepares to receive the embryo.

Cervix: Lower and narrow portion of the uterus, which projects into the vagina. It has a cervical canal that connects the uterine cavity to the vagina.

Endometrium: Inner layer of the uterus, rich in blood vessels and glands, which undergoes cyclical changes during the menstrual cycle, preparing for embryo implantation.

Myometrium: Thick muscular layer of the uterus, responsible for contractions during childbirth.

Sperm: Male gametes, responsible for fertilizing the egg.

Egg (Ovum): Female gamete, female reproductive cell, which contains half of the genetic material necessary for the formation of a new individual.

Corpus luteum: Glandular structure that develops in the ovary after ovulation, producing



progesterone, a hormone essential for maintaining pregnancy.

Mature follicle (Graafian follicle): Ovarian follicle that reaches its maximum development and releases the egg during ovulation.

Other structures can be verified directly on the physical piece or on the interactive 3D model.

About the Anatomical Models:

They are developed with resin replication technology, offering an alternative for teaching and research. They present the main morphological characteristics with a good cost-benefit ratio, resistance, hand painting, and numbering for precise identification of structures.

List of all visible structures:

- Vagina
- Endometrium
- Body of Uterus
- Fundus
- Cervical Canal
- Uterine Cavity
- Ovary
- Ovarian Ligament
- Fallopian Tube
- Infundibulum
- Primordial Follicles
- Corpus Luteum
- Ovum
- Sperm
- Embryo
- Ruptured Vesicular Fossicle