**A close up of text on a white background

Description automatically generatedMenstrual Cycle**

* Whilst the ovarian cycle takes place, another cycle of changes occurs in the uterus, and to a lesser extent, the vagina – the **menstrual cycle**
* A cycle where changes in the lining of the uterus are closely associated with stages in the ovarian cycle
* The changes in the uterine lining, the **endometrium**, are in preparation for a developing embryo in case the egg released at ovulation is fertilised
* When the embryo reaches the uterus, it has to implant itself in the endometrium
* In first stage of the ovarian cycle (period where follicle is maturing) the endometrium of the uterus becomes thicker and softer
* Increase in the number of blood vessels and mucus-secreting glands
* After ovulation the endometrium continues to thicken, and glands within begin to secrete w a watery mucus rich in glycogen
* If egg isn’t fertilised by sperm, the corpus luteum degenerates, reducing amount of hormone influencing build-up of the endometrium, resulting in its breakdown
* ~14 days after ovulation, blood from broken-down capillaries, mucous secretions and cell debris from the uterine lining are lost through the vagina – **menstruation**
* Menstruation takes place over several days and is commonly referred to as the **menstrual period** (or just period)
* Most recognisable point in the menstrual cycle, the onset of menstruation is taken to be day 1 of the cycle

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| **STAGE** | **DAYS** | **EVENTS** |
| Menstruation | 1-4 | Uterine bleeding, accompanied by shredding of endometrium |
| Preovulation | 5-12 | Endometrial repair begins; development of ovarian follicle; uterine lining gradually thickens |
| Ovulation | 12-15 | Rupture of mature follicle, releasing egg |
| Secretion | 16-20 | Secretion of water mucus by glands of endometrium, cervix and uterine tubes; movement and breakdown of unfertilised egg; development of corpus luteum |
| Premenstruation | 21-28 | Degeneration of corpus luteum, deterioration of endometrium |

* When menstruation initially begins, it is called **menarche**
* Marks the commencement of puberty
* From that time, a female will have a menstrual cycle about once a month unless interrupted by pregnancy
* The cycles last until **menopause**
* Menopause is the time when the processes that occurred at puberty are reversed
* Usually begins between ages of 45-55
* Takes place over a period of years, during which time the menstrual cycle becomes irregular until it eventually ceases
* Usually a woman has a potential of about 35 child-bearing years, and in most women about 400 of the initial 400,000 potential eggs reach maturity