

LAB _____ STAGES OF THE HUMAN MENSTRUAL CYCLE

When a human female is born, her ovaries already contain all the immature eggs that will later mature and produce functional eggs during her lifetime. Eggs usually begin to mature between the ages of 12 and 14, when a release of hormones triggers puberty, and a young woman reaches sexual maturity. Most commonly, eggs mature every 28 days or so. They usually mature one at a time, in alternating ovaries. This rhythmic maturation of eggs and the other chemical and physical events that accompany the process are called the menstrual cycle.

As a reaction to increasing levels of the hormone FSH (follicle stimulating hormone), eggs start to mature in a woman's ovary. Each egg matures inside an egg sac, or follicle, near the surface of one of the ovaries. When the egg is fully mature, another hormone — LH (luteinizing hormone) — reaches peak level. As a reaction to these high hormone levels, the follicle bursts open and releases the egg. This process is called ovulation. Tiny microscopic hairs, called cilia, on the cells at the opening to the fallopian tube or oviduct, sweep the egg into the tube which leads to the uterus.

As a reaction to increasing levels of the hormone estrogen, the lining of the uterus has been prepared to receive a fertilized egg by building up its lining with nurturing tissues and blood vessels.

After the egg is released from the follicle in the ovary, the remaining follicle tissue becomes a hormone-secreting gland, the corpus luteum ("yellow body"). The gland releases the hormone progesterone. High levels of progesterone help maintain the uterine in its built up, nurturing phase.

If the released egg remains unfertilized, it does not implant in the uterus lining. This triggers further hormonal changes. Both estrogen levels and progesterone levels drop. This causes the lining of the uterus to deteriorate. As a result both unfertilized egg and uterus lining are shed and pass out of the body. This periodic loss of tissues and fluids from the uterus is a normal function known as menstruation (a period). Menstruation is considered the beginning of the monthly menstrual cycle.

All of these changes are governed by coordinated hormones carried in the bloodstream from their releasing gland to their responding target cells. These hormones act through feedback mechanisms. The pituitary gland, at the base of the brain, secretes the two hormones that trigger the growth and development of the egg in the ovary — FSH (follicle stimulating hormone) and LH (luteinizing hormone). In response, the ovary then secretes the two sex hormones that control development of the egg and uterus lining — estrogen and progesterone. When ovarian hormones reach low levels, this "feeds back" and stimulates the pituitary gland to once again secrete its hormones to stimulate the development of another egg for another cycle.



Human Menstrual Cycle Lab 31 Answers Thcy

Olive Smith, Sichlen Smith



Human Menstrual Cycle Lab 31 Answers They:

Hormonal Regulation of the Menstrual Cycle J.G. Gruhn, R.R. Kazer, 2013-11-11 Historical survey of the evolution of concepts from which modern gynecologic endocrinology arose Part I presents data generally available before 1939 followed by a second part in which the past five decades are surveyed Annotation copyright Book News Inc Portland Or *The Menstrual Cycle* Michel Ferin, Raphael Jewelewicz, Michelle P. Warren, 1993 This volume clarifies in a logical and didactic manner the sequence of events that characterize the human menstrual cycle Each major organ involved in the cycle the brain the pituitary gland the ovary and the uterus is discussed and its contribution specifically outlined The chapters trace the physiologic events within each of these organs describe the hormones by which they communicate and outline how critical aspects of the cycle are synchronized so that an ovulatory cycle can occur Thus neuroendocrine control of the menstrual cycle is examined in detail and the processes of follicular development maturation ovulation and maintenance of the corpus luteum are thoroughly covered The book then turns to pathophysiology and examines the conditions under which the menstrual cycle may become abnormal Pathophysiological mechanisms that cause cycle disturbance anovulation and infertility are reviewed as are clinical presentations of common menstrual disorders and their treatment Progress in reproductive biology has been rapid and the research spans several disciplines In this volume information dispersed in many publications has been synthesized and concisely presented providing an in depth understanding of the processes that control reproductive function in the female **The Action of Corpus Luteum Hormone on the Human Menstrual Cycle** Thomas N. Morgan, Sydney G. Davidson, 1937 *Endocrinology and Related Phenomena of the Human Menstrual Cycle* Olive Smith, Sichlen Smith, 1952 Some Psychophysiological Correlates of the Human Menstrual Cycle Eugenia W. Wineman, 1967 **Olfactory Influences on the Human Menstrual Cycle** Michael J. Russell, 1980

This book delves into Human Menstrual Cycle Lab 31 Answers Thcy. Human Menstrual Cycle Lab 31 Answers Thcy is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Human Menstrual Cycle Lab 31 Answers Thcy, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Human Menstrual Cycle Lab 31 Answers Thcy
 - Chapter 2: Essential Elements of Human Menstrual Cycle Lab 31 Answers Thcy
 - Chapter 3: Human Menstrual Cycle Lab 31 Answers Thcy in Everyday Life
 - Chapter 4: Human Menstrual Cycle Lab 31 Answers Thcy in Specific Contexts
 - Chapter 5: Conclusion
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 3. In chapter 2, this book will delve into the foundational concepts of Human Menstrual Cycle Lab 31 Answers Thcy. This chapter will elucidate the essential principles that must be understood to grasp Human Menstrual Cycle Lab 31 Answers Thcy in its entirety.
 4. In chapter 3, this book will examine the practical applications of Human Menstrual Cycle Lab 31 Answers Thcy in daily life. The third chapter will showcase real-world examples of how Human Menstrual Cycle Lab 31 Answers Thcy can be effectively utilized in everyday scenarios.
 5. In chapter 4, the author will scrutinize the relevance of Human Menstrual Cycle Lab 31 Answers Thcy in specific contexts. The fourth chapter will explore how Human Menstrual Cycle Lab 31 Answers Thcy is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Human Menstrual Cycle Lab 31 Answers Thcy. The final chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Human Menstrual Cycle Lab 31 Answers Thcy.

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