

Menopause

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1. Core Definition

Menopause is a profoundly significant biological transition in a woman's life, marking the permanent cessation of her menstrual periods and, consequently, the end of her reproductive capability. This natural process is primarily characterized by the decline in ovarian function, leading to a substantial reduction in the production of key reproductive hormones, particularly **estrogen** and progesterone. It is diagnosed retrospectively after a woman has experienced 12 consecutive months without a menstrual period, in the absence of other obvious pathological or physiological causes. This landmark event typically occurs in women as they approach their 50s, with the average age in Western countries being around 51 years, though this can vary significantly based on genetic, lifestyle, and environmental factors.

The journey to menopause is not instantaneous but unfolds over several years, encompassing distinct phases. The initial stage is known as **perimenopause**, which literally means "around menopause." During perimenopause, a woman's body undergoes a gradual transition, characterized by fluctuating hormone levels that can lead to irregular menstrual cycles and the onset of various symptoms, such as hot flashes and mood swings. This phase can last anywhere from a few months to over a decade before the final menstrual period occurs, signifying the commencement of menopause itself.

Once the diagnostic criterion of 12 consecutive months without a period is met, a woman is considered to be in menopause. Following this, the phase known as **postmenopause** begins, and it extends for the remainder of a woman's life. During postmenopause, ovarian hormone production remains at consistently low levels. This sustained hormonal shift impacts numerous physiological systems, influencing a woman's overall health and well-being in both the short and long term, making understanding and managing this life stage crucial for holistic health care.

2. Etymology and Historical Development

The term "menopause" itself is derived from the Greek words "men" (month) and "pauis" (cessation), accurately reflecting its core definition as the stopping of monthly menstrual cycles. While the physiological reality of menstrual cessation has been observed throughout human history, the medical understanding and societal perception of menopause have undergone significant evolution. Historically, across many cultures, the cessation of menstruation was often viewed as a natural, albeit sometimes challenging, part of aging, frequently associated with a shift

in social roles and status for women, moving from a reproductive to a more matriarchal figure.

Early medical texts, stretching back to ancient civilizations, made observations about women's bodies and the changes that occurred with age, including the end of childbearing years. However, a scientific and distinct medical concept of menopause as a specific biological event, rather than simply a feature of general aging, began to solidify in the 18th and 19th centuries. Physicians started to document the range of symptoms associated with this transition, often attributing them to imbalances or accumulations within the body, reflecting the prevailing medical theories of the time. For many centuries, the focus was often on the negative aspects, portraying it as a period of decline or even illness.

The 20th century brought revolutionary advancements in endocrinology and women's health. The discovery and synthesis of hormones, particularly estrogen, in the mid-20th century transformed the medical approach to menopause. Initially, **Hormone Replacement Therapy (HRT)** was widely introduced and marketed as a panacea, promising to alleviate symptoms and even prevent aging. This era saw menopause increasingly framed within a medical model, often as a "deficiency disease" requiring pharmacological intervention. This perspective, while offering relief to many, also sparked considerable debate about the medicalization of a natural life process, an ongoing discussion that continues to shape contemporary views on menopause management.

3. Key Characteristics

Menopause is not merely the absence of menstruation but a complex interplay of hormonal, physiological, and symptomatic changes that collectively define this life stage. The primary driver of these changes is the depletion of **ovarian follicles**, which are the structures that house and mature eggs, as well as produce estrogen and progesterone. As the number of viable follicles diminishes with age, the ovaries become less responsive to the signals from the brain (luteinizing hormone - LH, and follicle-stimulating hormone - FSH), leading to a progressive and eventually complete cessation of ovarian hormone production.

3.1. Hormonal Dynamics

The most defining characteristic of menopause is the profound shift in hormonal balance. As the ovaries cease to function effectively, there is a dramatic and sustained decline in the production of **estradiol**, the most potent form of estrogen. This reduction is often accompanied by a decrease in progesterone, as ovulation becomes infrequent and eventually stops. In response to the lower estrogen levels, the pituitary gland attempts to stimulate the ovaries more vigorously, leading to significantly elevated levels of FSH (Follicle-Stimulating Hormone) and LH (Luteinizing Hormone), which serve as key diagnostic markers of menopause. These hormonal fluctuations and the eventual low steady state of estrogen are responsible for the cascade of changes experienced by

menopausal women.

While ovarian estrogen production ceases, the body does not become entirely devoid of estrogen. Some estrogen, primarily **estrone**, continues to be produced in peripheral tissues, such as fat cells, through the conversion of adrenal androgens. However, the levels of estrone are much lower than the estradiol levels during reproductive years and may not be sufficient to fully mitigate the effects of estrogen deficiency. The precise balance and interplay of residual hormones, along with individual differences in receptor sensitivity, contribute to the wide variability in menopausal experiences among women.

3.2. Physiological Manifestations

Beyond hormonal changes, menopause induces a range of physiological transformations across various organ systems. The urogenital system is particularly affected by estrogen deficiency, leading to conditions collectively known as the **Genitourinary Syndrome of Menopause (GSM)**. This syndrome encompasses symptoms such as vaginal dryness, itching, irritation, painful intercourse (dyspareunia), and increased susceptibility to urinary tract infections due to thinning and atrophy of the vaginal and urethral tissues. The structural integrity of the pelvic floor can also be compromised, potentially contributing to urinary incontinence.

Skeletal health is another critical area impacted by the decline in estrogen. Estrogen plays a vital role in maintaining bone density by inhibiting bone resorption and promoting bone formation. With its significant reduction, women enter a phase of accelerated bone loss, dramatically increasing their risk of **osteoporosis** and subsequent fragility fractures. This risk often necessitates bone density screenings and preventative measures. Furthermore, the cardiovascular system is also affected, as estrogen has protective effects on blood vessels and lipid profiles. Postmenopausal women experience an increased risk of **cardiovascular disease**, partly due to adverse changes in cholesterol levels and vascular elasticity that were previously modulated by estrogen.

Other physiological changes include alterations in skin and hair. Decreased collagen production, exacerbated by estrogen loss, can lead to thinner, less elastic skin and increased wrinkles. Hair can become thinner and more brittle, and some women may experience changes in hair distribution, such as facial hair growth. Metabolic changes are also common, with many women experiencing a shift in fat distribution towards the abdominal area and an increased propensity for weight gain, even without significant changes in diet or activity. These systemic changes underscore the widespread impact of estrogen on women's physiology.

3.3. Symptomatic Spectrum

The most commonly recognized symptoms of menopause are the **vasomotor symptoms (VMS)**, primarily hot flashes and night sweats. Hot flashes are sudden sensations of intense heat, often

accompanied by sweating, flushing, and palpitations, which can range from mild to severely disruptive. When they occur during sleep, they are known as night sweats and can significantly impair sleep quality. These symptoms are thought to be related to the instability of the thermoregulatory center in the brain, influenced by fluctuating hormone levels.

Beyond VMS, a wide array of symptoms can manifest. Psychological and mood disturbances are prevalent, including irritability, anxiety, mood swings, and an increased risk of depression, particularly in women with a history of mood disorders. Sleep disturbances are also common, often exacerbated by night sweats, but can also occur independently as a result of hormonal shifts affecting sleep architecture. Many women report cognitive changes, such as difficulties with memory, concentration, and "brain fog," though these are often transient and tend to improve in the postmenopausal years.

Musculoskeletal symptoms, such as joint pain and stiffness, are also frequently reported and can be challenging to distinguish from age-related arthritis. Headaches, particularly migraine types, can change in frequency and severity with hormonal fluctuations. Changes in libido, often due to a combination of factors including vaginal dryness, psychological well-being, and hormonal shifts, are also common. The experience of these symptoms is highly individual, varying in severity, duration, and specific presentation among different women, influenced by genetics, lifestyle, and psychosocial factors.

4. Significance and Impact

Menopause carries profound significance, not only for the individual woman but also for public health and society at large. As women are living longer, a substantial portion of their lives will be spent in the postmenopausal phase. Understanding and effectively managing the menopausal transition and its long-term implications are therefore critical for ensuring the health, quality of life, and continued productivity of a significant segment of the global population.

4.1. Long-term Health Implications

The sustained decline in estrogen after menopause has significant ramifications for a woman's long-term health, particularly increasing the risk for certain chronic diseases. As mentioned, **osteoporosis** becomes a major concern, leading to an elevated risk of debilitating fractures, especially of the hip, spine, and wrist. These fractures can result in chronic pain, disability, and a loss of independence, placing a considerable burden on healthcare systems and individual families.

Cardiovascular disease (CVD) also emerges as a leading cause of morbidity and mortality in postmenopausal women. The protective effects of estrogen on the cardiovascular system, including its favorable influence on lipid profiles, blood pressure regulation, and endothelial

function, are lost. This leads to an increased incidence of hypertension, dyslipidemia, and atherosclerosis, contributing to a higher risk of heart attacks and strokes. Therefore, comprehensive cardiovascular risk assessment and management become paramount in the postmenopausal period.

Furthermore, menopausal hormonal changes can influence metabolic health, contributing to an increased risk of developing **metabolic syndrome**, type 2 diabetes, and weight gain, particularly around the abdomen. While research on cognitive decline and Alzheimer's disease in relation to menopause is ongoing, some studies suggest a potential link between the timing and duration of estrogen deficiency and cognitive health later in life. These long-term health considerations underscore the need for proactive health management during and after menopause.

4.2. Quality of Life and Societal Dimensions

Beyond physiological changes, menopause can significantly impact a woman's quality of life. The disruptive nature of symptoms like hot flashes, night sweats, sleep disturbances, and mood changes can affect daily functioning, work productivity, personal relationships, and overall well-being. Many women report a decrease in vitality and enjoyment of activities, while others find this transition empowering, representing a new phase of life free from menstrual cycles and reproductive concerns. The subjective experience of menopause is highly variable and influenced by individual circumstances, cultural context, and access to support.

From a societal perspective, menopause affects the workforce, healthcare systems, and intergenerational dynamics. With increasing numbers of women working well into their 50s and 60s, the impact of menopausal symptoms on workplace performance and retention is gaining recognition. Employers and policymakers are increasingly considering strategies to support women through this transition, acknowledging its economic implications. Moreover, the healthcare burden associated with managing menopausal symptoms and preventing long-term complications is substantial, requiring robust public health initiatives and specialized care. Addressing the societal dimensions of menopause involves destigmatization, improved education, and supportive environments that acknowledge and accommodate this universal female experience.

5. Debates and Criticisms

The understanding and management of menopause have been subject to considerable debate and criticism, particularly concerning the extent of its medicalization and the role of hormone replacement therapy. One central argument revolves around whether menopause should be viewed as a natural biological process that requires support and adaptation, or as a "deficiency disease" that necessitates pharmacological intervention. Critics of the medicalization of menopause argue that framing it purely as a medical problem can pathologize a normal life stage,

potentially leading to over-treatment and overlooking the psychological, social, and cultural aspects of this transition.

The most significant controversy has historically centered on **Hormone Replacement Therapy (HRT)**. Following the initial widespread enthusiasm for HRT in the latter half of the 20th century, the publication of the **Women's Health Initiative (WHI)** study in 2002 dramatically shifted public and medical perception. The WHI findings suggested increased risks of breast cancer, heart disease, stroke, and blood clots with certain HRT regimens, leading to a sharp decline in its prescription. Subsequent re-analyses and further research have provided a more nuanced understanding, suggesting that the risks and benefits of HRT are highly dependent on factors such as a woman's age, time since menopause, dose, type of hormone, and individual health profile. This ongoing debate highlights the complexities of evidence-based medicine and individualized patient care.

Cultural variations in the experience and perception of menopause also present a critical area of discussion. Research indicates that the prevalence and intensity of specific menopausal symptoms, such as hot flashes, can vary significantly across different ethnic and cultural groups. These differences are often attributed to a combination of genetic factors, dietary habits, lifestyle choices, and psychosocial influences, including societal attitudes towards aging and women's roles. Critics argue that a Western-centric medical approach to menopause may not adequately address the diverse needs and experiences of women globally, calling for more culturally sensitive and holistic approaches to care. This broadens the discussion from purely biomedical considerations to encompass anthropology, sociology, and public health.

Further Reading

[Menopause - Wikipedia](#)

[Menopause - Mayo Clinic](#)

[What Is Menopause? - National Institute on Aging](#)

[The Menopause Years - The American College of Obstetricians and Gynecologists \(ACOG\)](#)

[The Menopause Society \(formerly North American Menopause Society\)](#)