

Endomorphs

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Primary Disciplinary Field(s): Psychology, Constitutional Psychology (historical)

1. Core Definition

The term **endomorph** refers to one of three primary human body types, or **somatotypes**, initially proposed by the American psychologist William Herbert Sheldon (1898-1977) in the 1940s. This classification system, part of Sheldon's broader theory of constitutional psychology, sought to categorize individuals based on their physical constitution, positing a connection between physique and temperament. An individual identified as an endomorph is typically characterized by a body type exhibiting significant roundness and softness. This includes features such as a relatively round head, shorter limbs (arms and legs), and a propensity for greater deposits of fat distributed widely across the body, often obscuring muscle definition. These physical traits were believed by Sheldon to reflect a specific underlying biological and psychological constitution.

Sheldon's somatotype theory positioned endomorphs in direct contrast to two other distinct body types: the ectomorph and the mesomorph. Ectomorphs were described as possessing a linear and fragile build, characterized by a thin face, slender limbs, and minimal accumulation of both fat and muscle. Conversely, mesomorphs were depicted as having a highly muscular and athletic physique, with strong bones, broad shoulders, and minimal body fat, often resembling what might be termed a 'body builder' type. The endomorph, therefore, represented the extreme of "viscerotonia," emphasizing the digestive system and overall rotundity, in Sheldon's three-dimensional schema of human variation, which he believed to be genetically predetermined and largely immutable throughout an individual's life.

2. Etymology and Historical Development

The concept of the endomorph is rooted in Sheldon's extensive work on somatotyping, a system he meticulously developed and popularized, particularly through his 1940 publication, *The Varieties of Human Physique*. Sheldon's methodology involved the photographic analysis of thousands of nude college students from three angles (front, side, rear), from which he derived a series of anthropometric measurements. These measurements were then used to assign a three-digit somatotype rating to each individual, with each digit representing the relative dominance of one of the three components: endomorphy, mesomorphy, and ectomorphy, on a scale of 1 to 7. A pure endomorph, for example, would be rated 7-1-1, indicating maximal endomorphy and minimal mesomorphy and ectomorphy. This quantitative approach was intended to lend scientific rigor to his classifications, moving beyond mere qualitative descriptions and aiming for a comprehensive, measurable system of human physical variation.

Sheldon's theoretical framework, constitutional psychology, was built upon the premise that

physical constitution (somatotype) had a direct and significant influence on an individual's psychological characteristics, including temperament, personality, and even susceptibility to certain diseases. He proposed that endomorphy was associated with a temperament he termed **viscerotonia**, characterized by traits such as love of comfort, sociability, emotional evenness, gluttony, and a deep appreciation for food. This linkage between physical form and behavioral tendencies was central to his ambitious attempt to create a comprehensive biological psychology that could explain human variation. His work drew upon earlier typological approaches to personality and physique, but Sheldon sought to refine these into a more systematic and measurable framework, albeit one that would later face severe scrutiny.

The development of these theories occurred in a historical period marked by significant interest in biological determinism and the classification of human types. Sheldon's work, while initially gaining considerable attention and some academic acceptance, emerged during a time when pseudoscientific ideas, including those related to eugenics, were also prevalent. His insistence on the immutability of somatotypes and their fixed psychological correlates provided a seemingly scientific basis for pre-existing stereotypes about body shape and character. This historical context is crucial for understanding both the initial appeal and the eventual comprehensive rejection of his entire theoretical construct, as it inadvertently provided a framework that could be, and was, used to justify social stratification and discriminatory practices based on physical appearance. The concept of the endomorph, therefore, cannot be fully understood outside of this broader intellectual and social milieu.

3. Key Physical Characteristics of Endomorphs (Sheldon's Theory)

According to Sheldon's constitutional psychology, the distinguishing physical attributes of an endomorph are numerous and collectively contribute to their characteristic roundness and softness, setting them apart from the other somatotypes. These individuals typically exhibit a large, soft, and somewhat flabby body, with a prominent abdomen and a generally heavy build that often lacks sharp contours. Their head shape is frequently described as round, and their facial features tend to be broad, contributing to an overall impression of fullness. The skeletal structure of an endomorph, while present, is often obscured by the overlay of soft tissue, giving the impression of a dense, but not necessarily muscular, form.

Furthermore, endomorphs are characterized by relatively short and tapering limbs, with small hands and feet that are often described as dainty in proportion to their overall body mass. There is a noticeable prevalence of subcutaneous fat deposits across the entire body, which contributes significantly to their smooth, rounded contours and often masks underlying muscularity. This widespread distribution of fat and the general accumulation of body mass give the endomorph a lower center of gravity, which Sheldon believed influenced their posture and movement patterns. Their body architecture was thought to be dominated by the digestive viscera, hence the term

"endomorph" derived from the endoderm, the innermost of the three germ layers in embryonic development, which gives rise to the digestive tract.

These physical traits were not merely descriptive for Sheldon; they were considered outward manifestations of an internal biological organization that was believed to be genetically determined and highly resistant to change. He posited that the endomorphic physique was a reflection of a predominant digestive system and a slower metabolism, leading to a natural tendency for fat accumulation. While modern science acknowledges genetic predispositions to certain body compositions, it fundamentally rejects the idea of fixed somatotypes and their direct, immutable link to psychological traits, viewing body composition as a dynamic interplay of genetics, lifestyle, and environmental factors.

4. Associated Temperament: Viscerotonia (Sheldon's Theory)

Beyond the purely physical, Sheldon postulated a strong correlation between the endomorphic physique and a specific set of psychological traits, which he termed **viscerotonia**. Individuals high in endomorphy were theorized to exhibit a disposition characterized by a profound love of comfort, which manifested as a preference for relaxation, soft living, and a deep appreciation for food and drink. They were generally perceived as sociable, good-humored, even-tempered, and emotionally stable, often seeking affection and approval from others. Sheldon suggested that viscerotonic individuals had a relaxed and slow reaction time, enjoyed company, and were typically tolerant and complacent, thriving in social situations and valuing interpersonal harmony above all else.

The viscerotonic temperament was portrayed as intrinsically linked to the physical characteristics of the endomorph. For instance, the love of food was seen as a natural extension of a body type predisposed to fat storage and a dominant digestive system. Similarly, the desire for comfort and social connection was interpreted as a psychological manifestation of the physical softness and roundness. These traits were thought to stem from a general emphasis on comfort and social interaction, making them outwardly focused and generally jovial. Sheldon further described these individuals as often exhibiting emotional placidity, with a low incidence of psychological distress or neurotic tendencies, in stark contrast to the perceived nervous intensity of ectomorphs or the driven nature of mesomorphs.

It is important to reiterate that these psychological associations were speculative and formed the basis of Sheldon's controversial theories, rather than being supported by rigorous empirical evidence that would stand up to modern scientific scrutiny. The perceived characteristics of endomorphs, such as their presumed love of food and comfort, were often based on anecdotal observations and cultural stereotypes rather than objective, verifiable data. Sheldon's system, therefore, created a deterministic link between body shape and personality that was highly problematic, as it risked perpetuating harmful stereotypes and overlooking the complex interplay of

genetic, environmental, and social factors that truly shape an individual's behavior and personality. These temperamental correlations, like the somatotype classifications themselves, are not recognized in contemporary psychology.

5. Significance and Impact (Historical Context)

Despite its eventual scientific repudiation, Sheldon's somatotype theory, including the concept of the endomorph, had a notable, albeit controversial, impact during the mid-20th century. His work represented a significant, albeit misguided, attempt to systematize the study of individual differences in physique and temperament, influencing early approaches to personality assessment and contributing to the historical development of psychological thought. For a time, somatotyping was applied in various fields, including criminology, sports psychology, and even educational settings, in an effort to predict behavior, identify potential talents, or understand predispositions to certain psychological conditions. The detailed photographic and anthropometric methods he developed, while flawed in their interpretation and theoretical conclusions, contributed to the history of quantitative measurement in psychology.

Sheldon's theories also resonated with a public and academic audience that was, at the time, receptive to biologically deterministic explanations for human behavior. The idea that one's body type could provide a clear blueprint for one's personality and destiny offered a seemingly straightforward way to understand and categorize human diversity. This appeal contributed to the initial widespread attention his work received, making terms like endomorph, mesomorph, and ectomorph part of a broader cultural lexicon, even beyond specialized academic circles. The simplicity of the classification system and its promise of predictive power made it attractive, particularly in contexts where quick assessments of individuals were desired, such as military recruitment or certain social programs, offering what appeared to be a scientific basis for profiling.

However, the enduring legacy of Sheldon's work is primarily as a cautionary tale in the history of science. While it highlighted the human tendency to observe and categorize physical differences, its ultimate significance lies in demonstrating the dangers of scientific overreach and the uncritical linking of physical attributes to complex psychological traits without sufficient empirical support. The concepts, including that of the endomorph, no longer hold scientific validity in modern psychology or medicine. Contemporary understanding of body composition, metabolism, and personality development is vastly more sophisticated, emphasizing complex interactions between genetics, epigenetics, environmental factors, lifestyle, and psychosocial influences, rather than fixed, biologically deterministic somatotypes. The historical impact thus serves as a powerful illustration of how scientific ideas can be misused or misinterpreted in the absence of rigorous methodology and ethical considerations.

6. Debates and Criticisms

The somatotype theory, and by extension the concept of the endomorph as a fixed biological and psychological type, has faced extensive and definitive criticism since its inception, leading to its comprehensive rejection by modern scientific disciplines. A primary and fundamental criticism centers on the theory's **pseudoscientific** underpinnings and methodology. Sheldon's research lacked rigorous control groups, objective measures for psychological traits, and independent replication by other researchers. His reliance on subjective interpretation of photographs and the potential for confirmation bias in linking body types to temperaments were significant methodological flaws. The correlations he observed were often weak and could be easily attributed to social stereotyping, observer bias, or a self-fulfilling prophecy effect, rather than any inherent biological link. Critics argued that the very act of classifying people based on their physical appearance could influence how they were perceived and, consequently, how they behaved.

Furthermore, a major ethical and scientific concern was the strong association of Sheldon's theories with **eugenics** and social determinism. By suggesting that body types were largely immutable and directly correlated with intelligence, temperament, and even social class, Sheldon's work provided a dangerous pseudo-scientific justification for existing social inequalities and discriminatory practices. The idea that an endomorphic physique inherently predisposed an individual to certain less desirable traits, or that such individuals were less intelligent or capable, fed into harmful stereotypes and contributed to stigmatization. This deterministic perspective ignored the profound impact of environment, social learning, individual agency, and the dynamic nature of human development on personality and behavior, reducing complex human beings to fixed biological categories with inherent psychological destinies. This deterministic and reductionist approach was particularly problematic given the historical context of eugenic movements, which sought to "improve" the human race through selective breeding and often relied on spurious biological justifications for social hierarchies.

Modern psychology and physiology have entirely moved beyond Sheldon's somatotype theory. Contemporary understanding of human body composition acknowledges that while individuals exhibit diverse physiques, these are influenced by a multitude of factors including genetics, diet, exercise, and overall health, and are subject to change over a lifetime. Body fat percentage, muscle mass, bone density, and metabolic rate are recognized as continuous variables, not discrete, immutable types. Moreover, personality and temperament are now understood through sophisticated psychological models that account for genetic predispositions interacting with environmental experiences, cognitive processes, and neurological structures, utterly discrediting any direct, simplistic link to body shape. The concept of the endomorph, therefore, persists primarily as a historical artifact within the annals of psychological inquiry, serving as a reminder of past scientific missteps and the paramount importance of empirical rigor, critical thinking, and ethical considerations in all scientific research.

7. Further Reading

[William Herbert Sheldon - Wikipedia](#)

[Somatotype and constitutional psychology - Wikipedia](#)

[Eugenics - Wikipedia](#)

[Constitutional psychology | psychology | Britannica](#)

[What Is Psychology? - American Psychological Association](#)

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