

Pathophysiology

Pathophysiology and [pathogenesis](#) are two related terms that describe different aspects of the development and progression of disease.

Pathophysiology refers to the physiological processes and mechanisms that underlie a disease. It describes the functional changes that occur in the body as a result of a disease, including alterations in cellular and molecular processes, organ function, and the interactions between different body systems. Pathophysiology encompasses the entire spectrum of disease, from the initial cellular and molecular changes that trigger the disease process to the signs and symptoms that manifest clinically.

Pathogenesis, on the other hand, refers to the development and progression of a disease from its initial cause or trigger. It describes the sequence of events that lead to the onset of the disease, including the underlying mechanisms and factors that contribute to the disease process. Pathogenesis can be influenced by a wide range of factors, including genetic predisposition, environmental exposures, and lifestyle factors. It can also involve complex interactions between multiple pathogenic factors.

In summary, pathophysiology and pathogenesis are related but distinct concepts. Pathophysiology describes the functional changes that occur in the body as a result of a disease, while pathogenesis describes the underlying mechanisms and factors that lead to the development and progression of the disease. Both concepts are important for understanding the nature of a disease and developing effective treatments.

Pathophysiology or [physiopathology](#) is a convergence of [pathology](#) with [physiology](#).

Pathology is the medical discipline that describes conditions typically observed during a disease state, whereas physiology is the biological discipline that describes processes or mechanisms operating within an organism. Pathology describes the abnormal or undesired condition, whereupon pathophysiology seeks to explain the physiological processes or mechanisms whereby such condition develops and progresses.

Pathophysiology can also mean the functional changes associated with or resulting from [disease](#) or injury. Another definition is the functional changes that accompany a particular disease.

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Last update: **2024/06/07 02:51**



