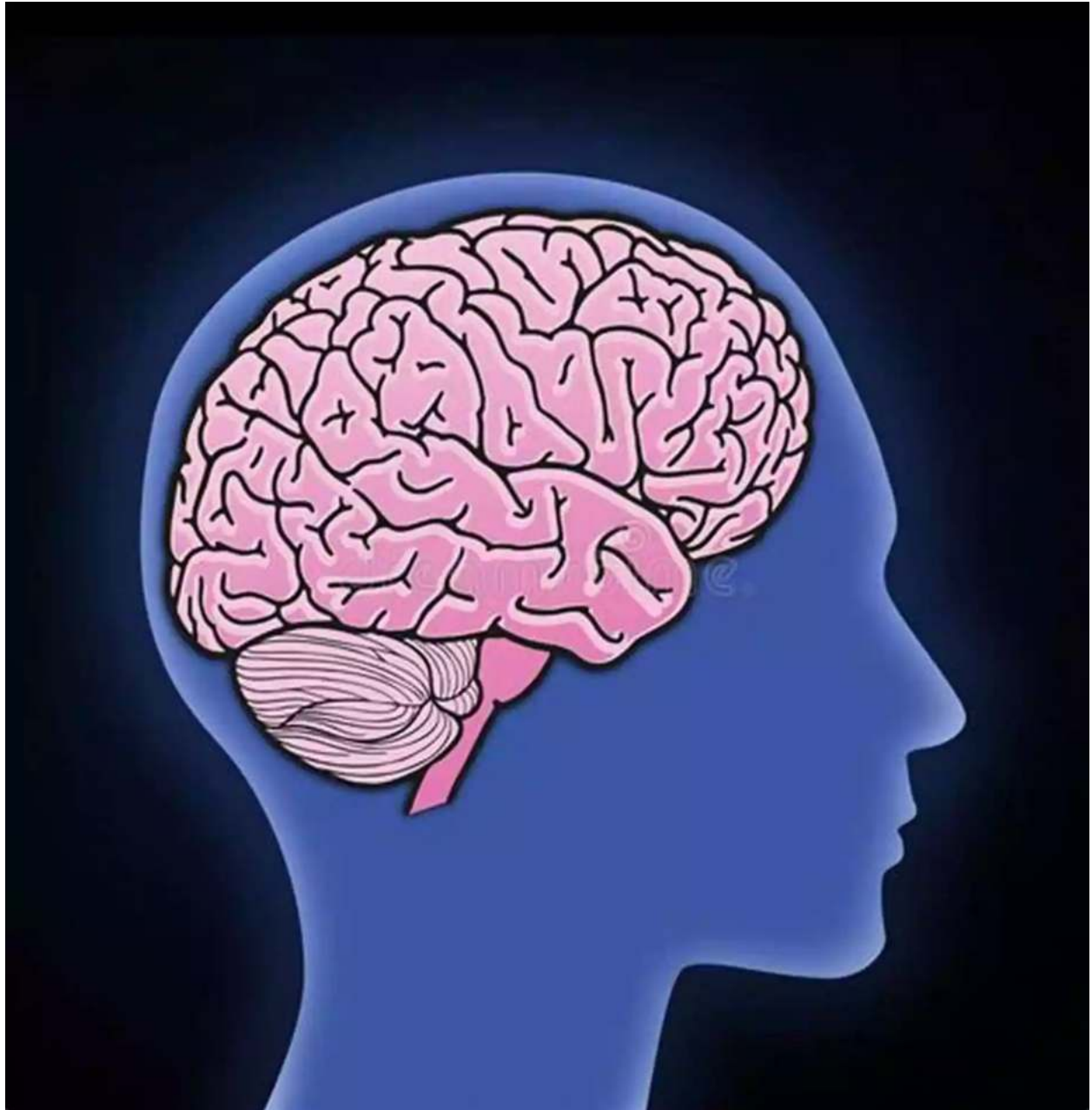


An Illustrated Guide To Its Structure, Function, And Disorders

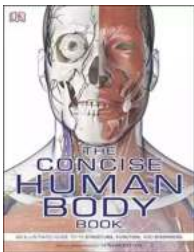


Welcome to the extraordinary world of the human brain! This intricate organ is the command center of our body, responsible for a wide range of functions that dictate our thoughts, emotions, and movements. In this

illustrated guide, we will explore the structure, function, and common disorders of the brain, unraveling the mysteries hidden within our own minds.

The Structure of the Brain

The brain is an incredibly complex organ composed of billions of nerve cells called neurons. It can be divided into several main regions, each with its own unique functions.



The Concise Human Body Book: An Illustrated Guide to its Structure, Function, and Disorders by DK(Kindle Edition)

★★★★☆ 4.7 out of 5

Language : English

File size : 120067 KB

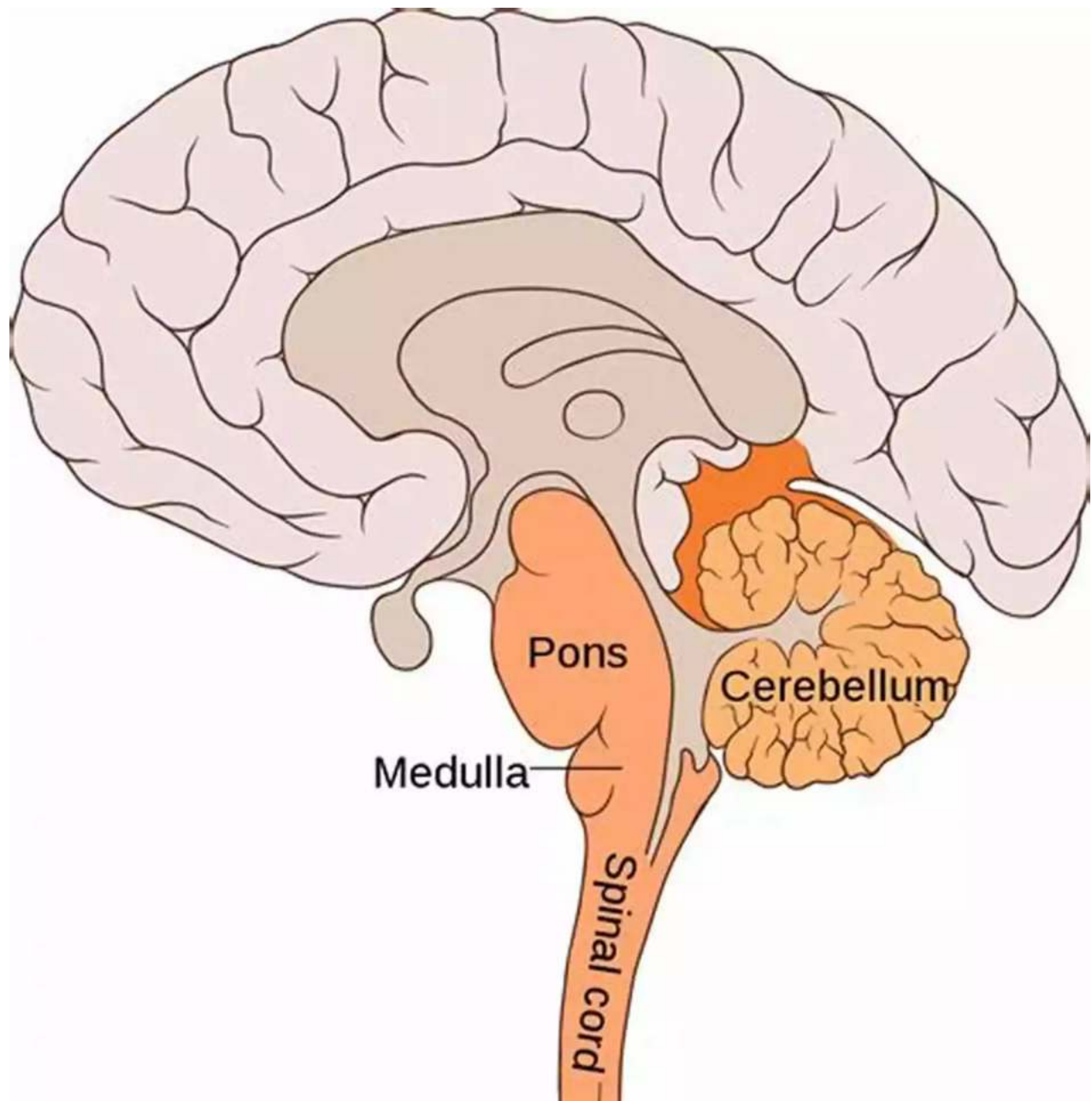


Cerebrum



The cerebrum, located at the top of the brain, is responsible for higher cognitive functions, such as thinking, reasoning, and problem-solving. It is divided into two hemispheres, the left and the right, connected by a bundle of nerve fibers called the corpus callosum.

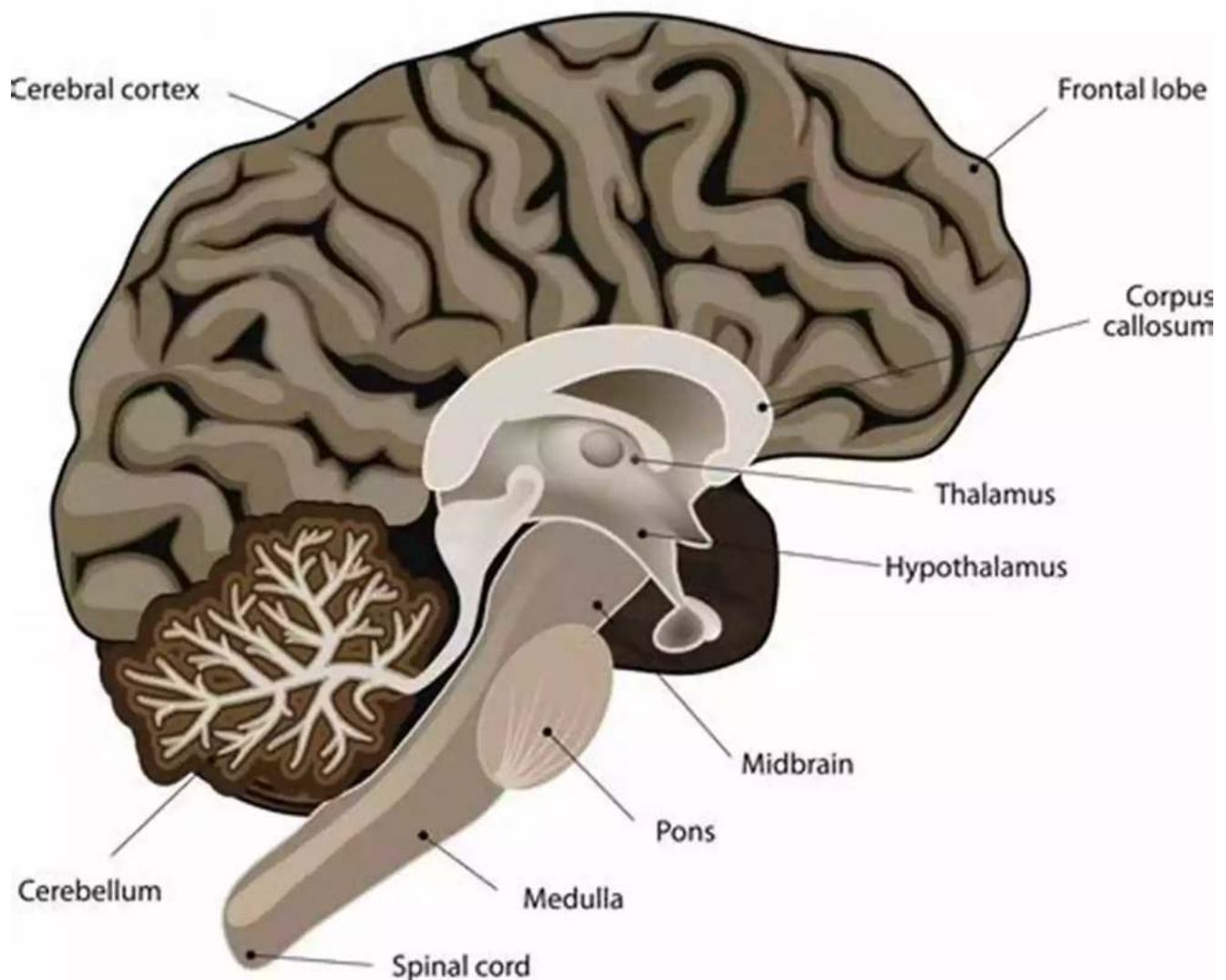
Cerebellum



The cerebellum, located at the back of the brain, is primarily involved in coordination, balance, and fine motor control. It helps us maintain posture and execute smooth movements.

Brainstem

THE HUMAN BRAIN



The brainstem, connecting the brain to the spinal cord, plays a vital role in basic functions necessary for survival, such as breathing, heart rate regulation, and consciousness. It consists of the midbrain, pons, and medulla oblongata.

The Function of the Brain

The brain's numerous functions can be categorized into four main areas: cognition, sensory processing, motor control, and emotion.

Cognition

Cognition involves processes such as perception, attention, memory, and language. The cerebrum, particularly the frontal lobe, is crucial for these cognitive abilities.

Sensory Processing

The brain receives and interprets sensory information from the environment through various senses, including sight, hearing, touch, taste, and smell. Different regions of the brain, such as the occipital lobe for vision and the temporal lobe for hearing, are responsible for processing these sensory inputs.

Motor Control

The brain generates electrical signals that control voluntary and involuntary movements. Motor control is coordinated by the cerebellum, basal ganglia, and motor cortex.

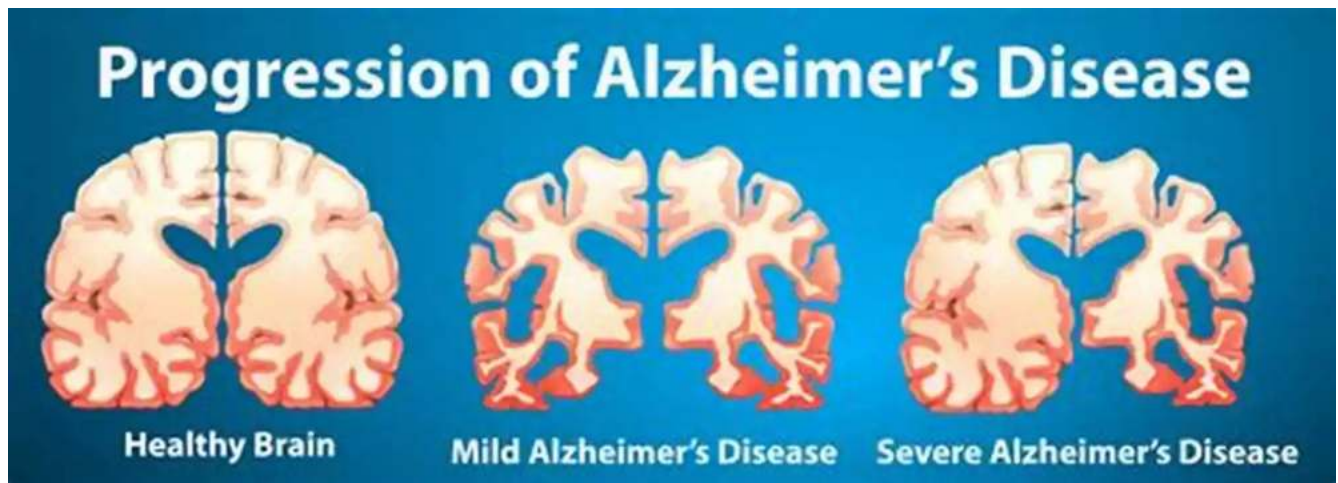
Emotion

Emotion is a complex interplay between various brain regions. The limbic system, which includes the amygdala and hippocampus, is heavily involved in emotional processes and memory formation.

Common Brain Disorders

Unfortunately, the brain is susceptible to various disorders that can affect its structure and function. Here are some of the most common brain disorders:

Alzheimer's Disease



Alzheimer's disease is a progressive neurodegenerative disorder characterized by memory loss, cognitive decline, and changes in behavior. It primarily affects older individuals and is associated with the accumulation of abnormal protein deposits in the brain.

Parkinson's Disease

PARKINSON'S DISEASE - SYMPTOMS



Slowness of movement



Speech Changes



Tremor



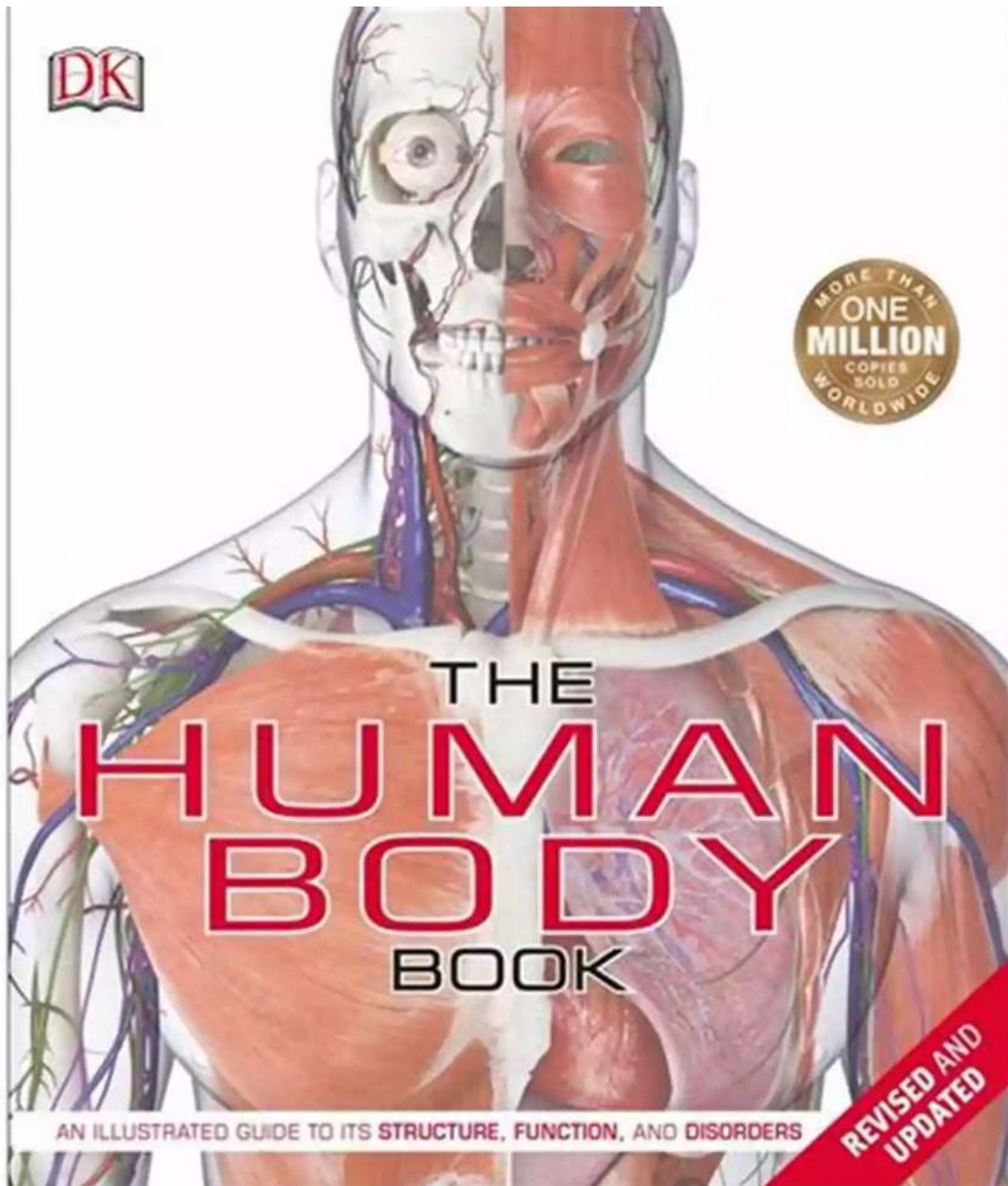
Flatulence



Loss of smell

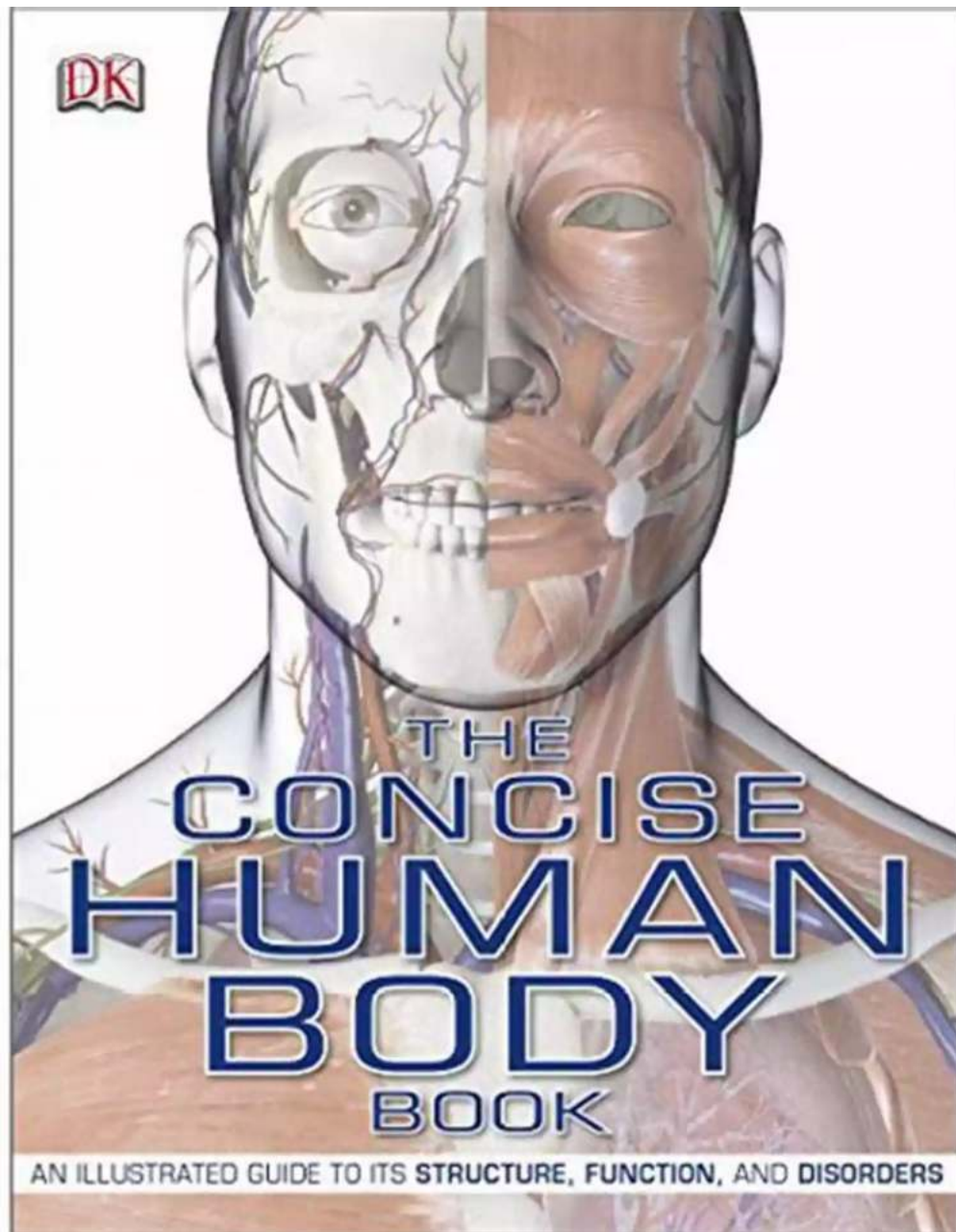
Parkinson's disease is a movement disorder caused by the degeneration of dopamine-producing neurons in the brain. It leads to tremors, rigidity, and difficulties with movement and coordination.

Epilepsy



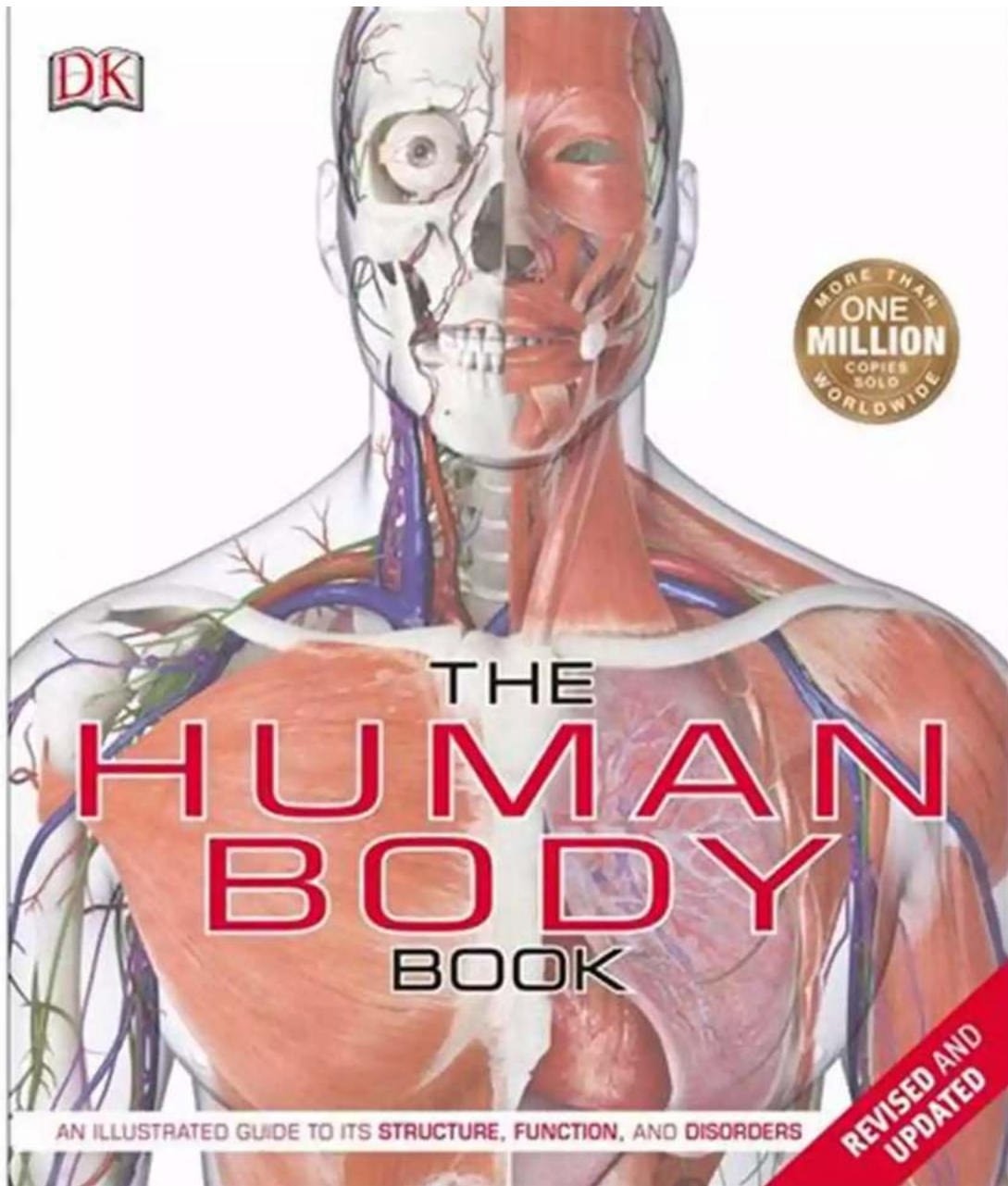
Epilepsy is a chronic neurological disorder characterized by recurrent seizures. These seizures are the result of abnormal electrical activity in the brain, leading to temporary changes in sensation, behavior, or consciousness.

Depression



Depression is a mood disorder that affects the brain's chemistry and function. It can cause persistent feelings of sadness, loss of interest, and a range of physical and psychological symptoms that significantly impact a person's quality of life.

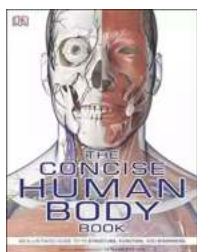
Schizophrenia



Schizophrenia is a chronic mental disorder characterized by abnormal thinking, perception, and behavior. It usually manifests in late adolescence or early adulthood and can cause hallucinations, delusions, and disorganized speech.

The human brain, with its extraordinary complexity, is a marvel of nature. Understanding its structure, function, and disorders is crucial for unlocking

the secrets of our own minds and advancing our knowledge of neuroscience. By delving into the illustrated guide provided here, you have taken the first steps on a fascinating journey into the mysterious world that resides within us all.



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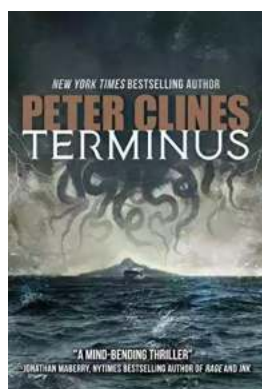


Discover all there is to know about human anatomy in DK's latest concise visual guide to the human body.

Fully updated to reflect the latest medical information, The Concise Human Body Book is illustrated throughout with colorful and comprehensive diagrams, photographs, scans, and 3D artworks, which take you right into the cells and fibers that are responsible for keeping your body ticking.

The Concise Human Body Book provides full coverage of the body, function by function, system by system. In the opening chapter, colorful medical scans, illustrations, and easy-to-understand diagrams show you how the different parts of the body work together to produce a living whole. Eleven main body systems - including the skeletal system, cardiovascular system, and respiratory system - are then covered in intricate detail in the following chapters, with each section ending on common diseases and disorders that can affect that system.

From bones and muscles to systems and processes, this in-depth, pocket-sized guide to the body's physical structure, chemical workings, and potential problems is the must-have reference manual for trainee medical professionals, students, or anyone interested in finding out more about how the human body works.



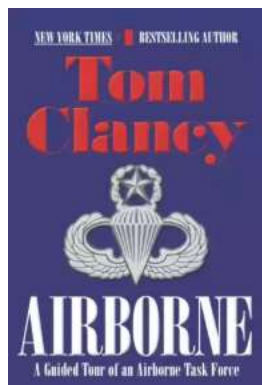
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