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BIO-PHYSICAL FACTOR IN CRIMINAL BEHAVIOUR

AISHA ADIL

STUDENT OF ANJUMAN-I-ISLAM'S BARRISTER A.R. ANTULAY COLLEGE OF

Law

Have you ever considered what makes someone more likely to engage in criminal behavior? It's not just about their upbringing or environment—our biology and physical makeup can also play a significant role. Welcome to the intriguing world of biophysical factors and their impact on criminality.

Picture this: our bodies are like intricate ecosystems, with various biological and physical elements interacting in complex ways. These elements—ranging from our genetic makeup to our brain structure and even our hormone levels—can all influence how we think, feel, and behave.

Take genetics, for example. Some studies suggest that certain genetic variations may make individuals more prone to impulsivity, aggression, or other traits associated with criminality. Similarly, differences in brain structure and function can affect decision-making processes and impulse control, potentially influencing whether someone engages in illegal activities.

This perspective on criminal behaviour shifts the focus from solely environmental or social factors to a more holistic understanding that incorporates our biological and physical makeup. By exploring the intricate interplay between these biophysical factors, we can gain deeper insights into why some individuals are more prone to criminal acts than others.

So, as we embark on this journey into the world of biophysical factors and criminal behavior, let's peel back the layers of complexity and delve into the fascinating science behind human actions.

FRANZ JOSEF GALL, a German <u>neuroanatomist</u>, <u>physiologist</u>, and pioneer in the study of the localization of mental functions in the <u>brain</u>. Gall developed the theory of Organology and the method of Cranioscopy that would later be known as <u>Phrenology</u>.

Gall's work on brain anatomy and behavior was truly groundbreaking, even though it had its flaws. He was one of the first to suggest that different areas of the brain might be responsible for different mental functions. Instead of relying on abstract or philosophical ideas, he focused on tangible evidence from the anatomy of the brain.

Although Gall's theory sometimes put too much emphasis on the shape of the skull as an indicator of brain function, he was onto something important. He understood the power of looking at various aspects of brain research, like anatomy, development, and even studies on animals, to piece together how the brain works.

His ideas were so influential that even today, we remember them. As noted by Sir Henry Head in a lecture back in 1920ⁱⁱ, Gall's theory that the brain's structure could affect skull formation, and consequently, aspects of a person's character, is still part of his legacy.

Despite any shortcomings, Gall's work opened doors for further exploration into how our brains shape who we are. It's a reminder that understanding ourselves isn't just about abstract theories—it's about digging into the tangible evidence right inside our heads.

LOMBROSO'Sⁱⁱⁱ theory of criminology, proposed in 1876, shook up the field with its bold assertion that criminality could be inherited and even detected by physical appearance (Lombroso, 1876). He argued that there existed a distinct class of people biologically predisposed to crime, marked by what he called "atavistic" features—traits reminiscent of our primitive ancestors.

In his seminal work, "The Criminal Man," Lombroso painted a picture of these individuals as wild, untamed beings, out of sync with the societal norms of his time. He claimed that their physical characteristics, such as expressive faces, peculiar eye shapes, and unusual body proportions, reflected their primitive nature and made them prone to criminal behavior.

Lombroso's theory, influenced by Darwin's evolutionary ideas, sparked a revolution in criminological thought. He meticulously examined thousands of criminals, living and deceased, measuring everything from their height to the colour of their eyes, in search of these

atavistic traits. Astonishingly, he reported finding such characteristics in a significant portion of his subjects.

His work earned him the title of the father of modern criminology, as he shifted the focus from moral and religious explanations of crime to a scientific approach. However, Lombroso's research has been criticized for lacking scientific rigor. He failed to use control groups for comparison and overlooked the potential influence of social factors on behavior.

Subsequent studies, like Goring's comparison of London convicts with a control group, failed to replicate Lombroso's findings, casting doubt on the universality of his theory. Critics also argue that his deterministic view, attributing criminality solely to innate physical traits, ignores the complexities of human behavior and individual differences.

Moreover, Lombroso's theory has been accused of promoting scientific racism and supporting eugenics, a controversial philosophy advocating for selective breeding based on perceived genetic advantages. By linking certain physical features to criminality, Lombroso inadvertently perpetuated harmful stereotypes and discriminatory practices.

In essence, while Lombroso's theory marked a pivotal moment in the study of crime, its limitations and ethical implications remind us of the importance of critically examining scientific ideas and considering the broader social implications of our research.

CONCLUSION

understanding how biology and physical traits influence criminal behavior is like peeling back layers of a complex puzzle. We've seen how pioneers like Franz Josef Gall and Cesare Lombroso opened doors to this understanding.

Gall's focus on brain anatomy and Lombroso's theory that physical features could predict criminality challenged old ways of thinking. But their ideas, while groundbreaking, had flaws and ethical concerns. Lombroso's theory, for instance, unintentionally fueled stereotypes and even supported harmful practices like eugenics.

In the end, exploring biophysical factors in crime reminds us of the intricate nature of human behavior. It's not just about genes or brain structure; it's also about our environment and experiences. By embracing this complexity, we can strive for more informed and compassionate approaches to addressing crime in society.

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