

Distúrbios da Consciência Humana – Parte 1 de 3: Bases Neurobiológicas

Disorders of Human Consciousness - Part 1 of 3: Neurobiological Basis

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RESUMO

A consciência é o perfeito estado do conhecimento de si próprio e do ambiente, bem como a responsividade específica a variados estímulos internos e externos. O presente artigo tem por objetivo apresentar os aspectos morfofuncionais, fisiopatológicos e as bases neurobiológicas das mais prevalentes condições mórbidas que envolvam alterações do nível de consciência. Para tal, foi realizada uma revisão da literatura apoiada em artigos obtidos através das bases LILACS (Literatura Latino-Americana e do Caribe em Ciências da Saúde), SciELO (Scientific Electronic Library Online) e PubMed (U. S. National Library of Medicine), além de livros-texto de neurologia e de neurociências. Neste primeiro artigo enfoca-se (1) a formação reticular – importante estrutura nervosa relacionada à consciência –, a qual é constituída por um conjunto de fibras nervosas originadas posteriormente ao tronco encefálico, que formam feixes ascendentes capazes de atingir o diencéfalo e ativar o telencéfalo. Distúrbios nestas áreas, de origem traumática ou não, podem levar ao comprometimento das funções tálamo-corticais e, consequentemente, a alterações do nível de consciência.

Unitermos. Transtornos da Consciência, Neurobiologia, Neurociências.

Citação. Mendes PD, Maciel MS, Brandão MVT, Rozental-Fernandes PC, Esperidião Antonio V, Kodaira SK, Siqueira-Batista R. Distúrbios da Consciência Humana – Parte 1 de 3: Bases Neurobiológicas.

ABSTRACT

The conscience is the perfect state of knowledge of self and the environment, as well as the specific responsiveness to various internal and external stimuli. This article aims to present the morphofunctional and pathophysiological aspects and the neurobiological bases for the most prevalent morbid conditions involving changes in the level of consciousness. For this purpose, we reviewed the literature, supported by articles obtained from LILACS (Latin American and Caribbean Health Sciences), Scielo (Scientific Electronic Library Online) and PubMed (U.S. National Library of Medicine) databases, in addition to textbooks on neurology and neuroscience. In this first article focuses on (1) reticular formation – an important neural nerve structure related to consciousness –, which consists of a set of nerve fibers originating after the brain stem, which form ascendant bundles able to reach the diencephalon and activate the telencephalon. Disturbances in these areas, whether traumatic or not, can lead to impairment of the thalamocortical functions, and hence to changes in the level of consciousness.

Keywords. Consciousness Disorders, Neurobiology, Neuroscience.

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