

Az agyi képalkotási technikák hozama a fejlődés és a fejlődési zavarok tanulmányozásában

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Abstract: Recent methodological advances in brain imaging and electrophysiological techniques have revolutionized the study of the developing human brain and behavior. These techniques (such as CT, PET, fMRI, ERP) used in the last 20 years had a great contribution to the study of different cognitive science issues. These brain-imaging methods are trying to overcome the gap between the behavioral outcomes and the changes in the neural substrates of different cognitive processes. With the help of these neuroimaging techniques we can address key developmental questions, including how the healthy and normal brain develops and how such development is related to behavior. Also we can give better answers to questions like which are the corresponding and active areas of specific processes. After discussing some of the advantages and the disadvantages of different neuroimaging techniques we are trying to highlight how these methods have contributed to the better understanding of various developmental disorders.

Keywords: brain imaging, PET, fMRI, ERP, developmental studies, advantages, disadvantages, developmental disorders