Neuropsychological Function and Brain Imaging: Critical Issues in Neuropsychology

Chapter 1: Introduction to Neuropsychological Function and Brain Imaging

1. Neuropsychological Function and Brain Imaging: Introduction and Overview.


4. Statistical parametric maps were obtained, for each neuropsychological test, by linear regressions comparing brain...brain SPECT and neuropsychological testing, these nuisance variables being known to have influence on brain perfusion.


6. This imaging process may be used to localize brain regions for language, motor function, or sensation prior to surgery for epilepsy. Researchers use fMRI to study head injury and degenerative disorders such as Alzheimer's disease.


8. The aim of this study was to compare neuropsychological scores and structural brain magnetic resonance imaging (MRI) in patients with ventricular septal defect (VSD) or atrioventricular septal defect (AVSD) during adolescence to normative population data and healthy adult controls.

9. Subcortical shape and neuropsychological function among U...data from 135 post-deployed United States Service Members from two groups (mTBI and orthopedic injured) were examined.

10. Mental illness, such as depression, can also cause cognitive impairment. When a patient presents with memory problems, the doctor will also use information from other tests. These can include brain scans and blood tests.


12. The Neuropsychological Measurement of Executive Function Sat, 20 Jul 2019 | Traumatic Brain In Chapter 2, it was learned that frontal lobe injury is the most common site of anatomical change following traumatic brain injury.

13. Likewise, the greater specificity and precision of current brain-imaging techniques have provided a more complete window into the brain's anatomy, function, and connectivity. The combination of the visual and auditory modalities...the brain's function.


Neuroimaging is the use of various techniques to either directly or indirectly image the structure, function, or blood flow of the brain in vivo. It includes a variety of techniques such as...it can be used to study brain function and connectivity in the living brain.

15. Neuroimaging or brain imaging is the use of various techniques to either directly or indirectly image the structure, function, or blood flow of the brain in vivo. It includes a variety of techniques such as...it can be used to study brain function and connectivity in the living brain.

16. Before the advent of modern brain-imaging techniques, the precise effects of brain lesions could be studied only in patients with neurological deficits, such as seizures, or in patients with cognitive impairment. Today, with techniques such as fMRI and PET scanning, it is possible to map brain function in the living human brain.

17. Over the past two decades researchers and clinicians in the neurosciences have witnessed a literal information explosion...television screens, to the walls of the operating room.

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