Role of magnetic resonance techniques in Assessment Of Attention Deficient Hyperactivity Disorder (ADHD)

Essay

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List of abbreviations

Abbreviation	Meaning
AC	Anterior commissure
ADHD	Attention deficit hyper activity disorder
AG	Angular gyrus
AIF	Arterial input function
AlIC	Anterior limb of internal capsile
ASL	Arterial spin labeling
ATR	Anterior thalamic radiation
BAT	Bolus arrival time
BOLD	Blood oxygen level dependant
CaS	Callosal sulcus
CG	Cingulated gyrus
CG	Cingulum
CH	Caudate head
CHESS	Chemical shift selective attenuation technique
Cho	Choline
CPT	Corticopontine tract
Cr	Creatine
CS	Central sulcus
CS	Central sulcus
CSI	Chemical shift imaging
CST	Corticspinal tract

DACC	Dorsal anterior cingulated cortex
DCN	Deep cerebellar nuclei
DHB	Deoxygenated hemoglobin
DSC	Dynamic susceptibility contrast
EEG	Electroencephalogram
FID	Free induction decay
FMRI	Functional magnetic resonance imaging
FX	Fornix
GE	Gradient echo
GE-EPI	Gradient echo-echoplaner imaging
Gln	Glutamine
GLU	Glucose
Glu	Glutamate
Glx	Glutamine glutamate
HBO2	Oxygenated hemoglobin
HG	Heschle`s gyrus
HRF	Hemodynamic response function
ICP	Inferior cerebellar peduncle
IFO	Inferior fronto occibital
IFG	inferior frontal gyrus
IFS	Inferior frontal sulcus
ILF	Inferior longitudinal fasciculus
IOG	Inferior occibital gyrus

IOS	Inferior occibital sulcus
IPL	Inferior parietal lobule
IPS	Intraparietal sulcus
ITG	Inferior temporal gyrus
ITS	Inferior temporal sulcus
Lac	Lactate
LFF	Low frequency fluctuation
MCA	middle cerebral artery
MFG	Middle frontal gyrus
Mi	Myoinositol
ML	Medial laminiscus
MOG	Middle occibital gyrus
MRI	Magnetic resonance imaging
MRS	Magnetic resonance spectroscopy
MTG	middle temporal gyrus
MTT	Mean transient time
NAA	N- acetyle aspartate
Para CL	Para central lobule
PET	Photon emission tomography
PHG	Parahippocampal gyrus
PM	Premotor cortex
PostCG	Post central gyrus
PP	Parietal cortex

PPM	Parts per million
PreCG	Precentral gyrus
PRESS	point reserved spectroscopy
PTR	Posterior thalamic radiation
RCBF	Regional cerebral blood flow
RCBV	Regional cerebral blood volume
SCP	Superior cerebelar peduncle
SFG	Superior frontal gyrus
SFO	Superior fronto occibital
SFS	Superior frontal sulcus
SG	Scentence generation
SI	Signal intensity
SLF	Superior longitudinal fasciculus
SM1	Sensory motor area
SMA	Supplementary motor area
SMG	Supramarginal gyrus
SN	Substantia nigra
SNR	Signal to noise ratio
SOG	Superior occibital gyrus
SOS	Superior occibital sulcus
SPECT	Photon emission computed tomography
SPL	Superior parietal lobule
St	Stria terminalis

STEAM	Stimulated echo acquisition mode
STG	Superior temporal gyrus
STR	Superior thalamic radiation
STS	Superior tempora; sulcus
subCG	Subentral gyrus
SV	Single voxel
TA	Arrival time
Tfmri	Task related functional magnetic resonance imaging
TH	Thalamus
TTP	Time to peak
UNC	Uncinate fasciculus
VLPFC	Ventro lateral prefrontal cortex
WA	Wernicke`s area
WG	Word generation

Introduction & Aim of the work