

Name of Journal: World Journal of Radiology

ESPS Manuscript NO: 18421

Manuscript Type: Original Article

Case Control Study

Partial correlation analyses of global diffusion tensor imaging-derived metrics in glioblastoma multiforme: Pilot study

David Cortez-Conradis, Camilo Rios, Sergio Moreno-Jimenez, Ernesto Roldan-Valadez

Abstract

AIM: To determine existing correlates among diffusion tensor imaging (DTI)-derived metrics in healthy brains and brains with GBM (glioblastoma multiforme).

METHODS: Case-control study using DTI data from brain MRI of 34 controls (Mean, 41.47; SD, ± 21.94 years; range, 21-80 years) and 27 patients with GBM (mean, SD; 48.41 \pm 15.18 years; range, 18-78 years). Image postprocessing using FSL software calculated eleven tensor metrics: fractional and relative anisotropy; pure isotropic and anisotropic diffusions, total magnitude of diffusion; linear, planar and spherical tensors; mean, axial and radial diffusivities. Partial correlation analyses (controlling the effect of age and gender) and multivariate Mancova were performed.

Match Overview

1	Internet 20 words crawled on 03-Oct-2011 musicweb.hmtm-hannover.de	1%
2	CrossCheck 18 words Mondragon-Lozano, Rodrigo, Araceli Diaz-Ruiz, Camilo Rios, Roberto Olayo Gonzalez, Rafael Favila, Hermelinda Sa	1%
3	CrossCheck 17 words E. Salli. "Characterizing diffusion tensor imaging data with directional entropy", 2005 IEEE Engineering in Medicine a	<1%
4	CrossCheck 11 words O.A. Glenn. "Diffusion Tensor MR Imaging Tractography of the Pyramidal Tracts Correlates with Clinical Motor Funci...	<1%
5	Internet 10 words crawled on 09-Apr-2010 brain.oxfordjournals.org	<1%
6	Internet 8 words crawled on 02-Oct-2010 www.ajnr.org	<1%



Correlates and means among global DTI-derived metrics, gender and ag



网页

新闻

图片

视频

更多 ▾

搜索工具

找到约 20,800 条结果 (用时 0.64 秒)

Global diffusion tensor imaging derived metrics differentiate ...

www.ncbi.nlm.nih.gov > ... > Literature > PubMed Central (PMC) - 翻译此页

作者: E Roldan-Valadez - 2014 - 相关文章

2014年4月25日 - Retrospective, case and control study; 11 global DTI-derived tensor ... with glioblastoma multiforme and 34 controls: mean diffusivity, fractional ... of DTI-derived tensor metrics in normal and infiltrated brains with GBM. correlation coefficient (r) controlling for the effect of age, gender and clinical diagnosis.

缺少字词: pilot

[PDF] Global diffusion tensor imaging derived metrics ... - dLib.si

www.dlib.si/stream/URN:NBN:SI:DOC-TQXGERJM/.../PDF ▾ 翻译此页

作者: E Roldan-Valadez - 2014 - 相关文章

Retrospective, case and control study; 11 global DTI-derived tensor metrics were calculated in 27 patients ... tus) significantly correlates with progression-free, Correlations of tensor metrics, controlled for the effect of diagnosis, age and gender between means of normal-brain and brain-with- as glioblastoma multiforme ...

缺少字词: pilot

Publications Authored by Rafael Favila - PubFacts

www.pubfacts.com/author/Rafael+Favila - 翻译此页

Retrospective, case and control study; 11 global DTI-derived tensor metrics were ... in 27 patients with glioblastoma multiforme and 34 controls: mean diffusivity, ... that significantly differentiated normal brains and brains with glioblastoma: Wilks' λ ... There was a significant interaction between gender and age group, $p=.017$, ...

Henry Ka Fung Mak - Orcid

orcid.org/0000-0002-2007-0650 ▾ 翻译此页

The ORCID Registry The ORCID Website. Your use of the Registry and the results of your search are subject to ORCID's Terms and Conditions of Use.

Neuro A - ISMRM 21st Annual Meeting

www.ismrm.org/13/tp04.htm ▾ 翻译此页

作者: HM Cao - 2013 - 相关文章

[网页](#)[图片](#)[新闻](#)[视频](#)[购物](#)[更多 ▾](#)[搜索工具](#)

找到约 20,800 条结果 (用时 0.67 秒)

您是不是要找: **Partial correlation *analysis* of global diffusion tensor imaging-derived metrics in glioblastoma multiforme: Pilot study**

Global diffusion tensor imaging derived metrics differentiate ...

www.ncbi.nlm.nih.gov > ... > [PubMed Central \(PMC\)](#) ▾ [翻译此页](#)

作者: E Roldan-Valadez - 2014 - [相关文章](#)

2014年4月25日 - Retrospective, case and control **study**; 11 **global DTI-derived tensor metrics** were calculated in 27 patients with **glioblastoma multiforme** and 34 **Partial correlation analyses** were carried out to calculate the Pearson's ...

缺少字词: **pilot**

Publications Authored by Rafael Favila - PubFacts

www.pubfacts.com/author/Rafael+Favila ▾ [翻译此页](#)

Diffusion tensor imaging (DTI) studies in patients with schizophrenia have shown ...

Global diffusion tensor imaging derived metrics differentiate **glioblastoma multiforme** vs. normal brains by using discriminant **analysis**: introduction of a The aim of this **pilot study** was to examine the blood oxygen level-dependent (BOLD) ...

Related Articles - PubMed Central Canada

[网页](#)[新闻](#)[图片](#)[视频](#)[更多 ▾](#)[搜索工具](#)

找到约 19,600 条结果 (用时 0.67 秒)

您是不是要找: **Partial correlation *analysis* of global diffusion tensor imaging-derived metrics in glioblastoma multiforme: Pilot study**

Global diffusion tensor imaging derived metrics differentiate ...

www.ncbi.nlm.nih.gov > ... > [PubMed Central \(PMC\)](#) ▾ [翻译此页](#)

作者: E Roldan-Valadez - 2014 - 被引用次数: 1 - 相关文章

2014年4月25日 - Retrospective, case and control **study**; 11 **global DTI-derived tensor metrics** were calculated in 27 patients with **glioblastoma multiforme** and 34 **Partial correlation analyses** were carried out to calculate the Pearson's ...

Publications Authored by Rafael Favila - PubFacts

www.pubfacts.com/author/Rafael+Favila - [翻译此页](#)

Diffusion tensor imaging (DTI) studies in patients with schizophrenia have shown ...

Global diffusion tensor imaging derived metrics differentiate **glioblastoma multiforme** vs. normal brains by using discriminant **analysis**: introduction of a The aim of this **pilot study** was to examine the blood oxygen level-dependent (BOLD) ...

Related Articles - PubMed Central Canada

pubmedcentralcanada.ca/pmcc/solr/mlt.jsessionid... ▾ [翻译此页](#)

Results 1 - 25 - This **study** aims to evaluate and compare tract reconstructions obtained **Diffusion Tensor Imaging**; Fiber Tracking; Fiber Clustering; **Global Optimization** ... **correlation analysis**; **diffusion tensor imaging**; fluid attenuated inversion with decreased survival in patients with recurrent **glioblastoma multiforme**.

Neuro 1 - Joint Annual Meeting ISMRM-ESMRMB 2014

www.ismrm.org/14/program_files/EP04.htm - [翻译此页](#)