

**Name of Journal:** *World Journal of Radiology*

**Manuscript NO:** 56158

**Manuscript Type:** ORIGINAL ARTICLE

### *Clinical Trials Study*

**Application of voxel-based morphometric method to brain with non-cyanotic congenital heart disease**

Xuan Jia, Xiao-Hui Ma, Jia-Wei Liang

### **Abstract**

#### **BACKGROUND**

Congenital heart disease (CHD) is a cardiovascular malformation caused by abnormal heart and/or vascular development in the fetus. In children with CHD, abnormalities in the development and function of the nervous system are common. At present, there is a lack of research on the preoperative neurological development and injury of young children with non-cyanotic CHD.

### Match Overview

1	Internet 260 words crawled on 11-Apr-2020 <a href="http://www.researchsquare.com">www.researchsquare.com</a>	10%
2	Crossref 58 words Shabnam Peyvandi, Beatrice Latal, Steven P. Miller, Patrick S. McQuillen. "The neonatal brain in critical congenital he ...	2%
3	Crossref 29 words Sarah N. Nattel, Laura Adrianzen, Erica C. Kessler, Gregor Andelfinger et al. "Congenital Heart Disease and Neurod ...	1%
4	Internet 20 words crawled on 19-Jul-2020 <a href="http://childrensnational.org">childrensnational.org</a>	1%
5	Internet 20 words crawled on 15-Jun-2020 <a href="http://www.dovepress.com">www.dovepress.com</a>	1%
6	Internet 15 words crawled on 11-Dec-2019 <a href="http://journals.plos.org">journals.plos.org</a>	1%



12,000 条结果 时间不限 ▾

## (PDF) A Meta-analysis of Voxel-based Brain ... 翻译此页

A Meta-analysis of Voxel-based Brain Morphometry Studies in Obstructive Sleep Apnea Article (PDF Available) in Scientific Reports 7(1) · December 2017 with 104 Reads How we measure 'reads'

[https://www.researchgate.net/publication/319368246\\_A\\_Meta-analysis\\_of\\_Voxel-based...](https://www.researchgate.net/publication/319368246_A_Meta-analysis_of_Voxel-based...)

## The Congenital Heart Disease Brain: Prenatal ... 翻译此页

Cited by: 1

Author: Cynthia M. Ortinau, Joshua S. Shimony

Publish Year: 2020

2020-7-1 · Fetuses rely on delivery of oxygen and nutrient-rich blood from the placenta. The oxygenated blood is preferentially shunted through the foramen ovale to the left side of the heart, out of the aorta, and to the fetal brain (Fig 2A). 37, 38 Many forms of CHD alter cardiac anatomy in a way that disrupts this normal physiology. For example, in TGA, the aorta and pulmonary artery are transposed and ...

<https://www.sciencedirect.com/science/article/pii/S0887899420300266>

## Statistical features and voxel-based morphometry for ... 翻译此页

Recent morphometric MRI studies have investigated brain volume abnormalities associated with the diagnosis of Alzheimer's disease (AD) using voxel-based morphometry (VBM).

[https://www.researchgate.net/publication/325003001\\_Statistical\\_features\\_and\\_voxel...](https://www.researchgate.net/publication/325003001_Statistical_features_and_voxel...)

## Age and gender effects on human brain anatomy: A ... 翻译此页

Age and gender effects on human brain anatomy: A voxel-based morphometric study in healthy elderly Article in Neurobiology of aging 28(7):1075-87 · August 2007 with 41 Reads How we measure 'reads'

<https://www.researchgate.net/publication>

[/7008504\\_Age\\_and\\_gender\\_effects\\_on\\_human\\_brain...](https://www.researchgate.net/publication/7008504_Age_and_gender_effects_on_human_brain...)

## Brain iron content in systemic iron overload: A beta ... 翻译此页

位置: 8600 Rockville Pike, Bethesda, MD

In the attempt to solve the question if brain iron overload is real in beta-thalassemia, here we performed a voxel-based whole-brain quantitative MRI study of iron content involving 70 beta-thalassemia patients (recruited from 4 major centers in Southern Italy) and 57 age and sex matched controls to compare iron (R2\*) brain maps between ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6849415>

## (PDF) A Tensor-Based Morphometry Study of Genetic ... 翻译此页

In structural brain MRI, group differences or changes in brain structures can be detected using tensor-





Application of voxel-based morphometric method to brain with non-cya



Sign in



ALL

IMAGES

VIDEOS

18,000 Results

Any time ▼

## A voxel-based morphometric study of age- and sex-related ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4771405>

Feb 24, 2016 · Introduction. Normal **brain** aging is a physiological process accompanied by declines in the function of multiple systems in the body, including age-related cognitive decline, which is manifested as a decline in executive function and memory.<sup>1</sup> Investigation of age-related **brain** changes helps in understanding the evolution of degeneration and its mechanisms, and assists in the differentiation of ...

Cited by: 17

Author: Haijing Liu, Lixin Wang, Zuojun Geng, Qi...

Publish Year: 2016

## Whole-brain morphometric studies in alcohol addicts by ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6944588>

Oct 12, 2019 · Introduction. **Voxel-based** morphometry (VBM) is an objective automatic whole-**brain** analysis **method** that allows the detection of subtle **morphometric** inter-subject differences in **brain** structure (1-3). This technique has been widely used for measuring whole-**brain** volume in patients with some diseases including presenile dementia, amyotrophic lateral sclerosis, and optical neuromyelitis ...

## Search Tools

Turn off Hover Translation (关闭取词)