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*Retrospective Study*

CO2BOLD assessment of surrogate cerebrovascular reserve for the pre-surgical evaluation of Moyamoya syndrome: feasibility and validation with SPECT and PET imaging

Alain Pellaton, Philippe Bijlenga, Laurie Bouchez, Victor Cuvinciuc, Isabelle Barnaure, Valentina Garibotto, Karl-Olof Lövblad, Sven Haller

## Abstract

## Objectives:

The assessment of the cerebrovascular reserve (CVR) is considered as essential

## Match Overview

1	<b>CrossCheck</b> 70 words Lovblad, K.-O., M.-L. Montandon, M. Viallon, C. Rodriguez, S. Toma, X. Golay, P. Giannakopoulos, and S. Haller. "A	2%
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### Clinical Neuroimaging Using Arterial Spin-Labeled ... - NCBI

[www.ncbi.nlm.nih.gov](http://www.ncbi.nlm.nih.gov) > ... > PubMed Central (PMC) ▾ [翻译此页](#)作者: RL Wolf - 2007 - 被引用次数: 141 - [相关文章](#)

Arterial blood is labeled or tagged and, after a delay, moves into the imaging plane or ....  
 Ances et al. used multislice CASL perfusion MRI to evaluate CBF before and ..... and  
 include anatomic or volumetric imaging, BOLD fMRI, ASL perfusion MRI and .....  
 cerebrovascular disease: a correlative study with CO2 PET validation.

### A neuroradiologist's guide to arterial spin labeling MRI in ...

[www.ncbi.nlm.nih.gov](http://www.ncbi.nlm.nih.gov) > ... > Literature > PubMed Central (PMC) - [翻译此页](#)作者: M Grade - 2015 - 被引用次数: 5 - [相关文章](#)

2015年9月9日 - In cerebrovascular disease, ASL is of particular interest owing to its ...  
 SPECT, CT, PET, and DSC-MRI measure perfusion by dynamic imaging of the passage  
 ..... an acetazolamide challenge to assess the cerebrovascular reserve [42, 43]. ....  
 vessel, findings that are validated by correlation with SPECT [54].

### [PDF] Imaging - TouchNEUROLOGY

[www.touchneurology.com/system/files/private/.../strother.pdf](http://www.touchneurology.com/system/files/private/.../strother.pdf) ▾ [翻译此页](#)

Stroke, BOLD, ASL, CEST, reactivity, neurovascular imaging. Disclosure: ... evaluating  
 cerebrovascular disease and to provide references relevant for further ...

### [PDF] Measuring cerebrovascular reactivity: what stimulus ... - E...

[www.exalt-association.org/.../FierstraReviewCVRmethodsJPhysi...](http://www.exalt-association.org/.../FierstraReviewCVRmethodsJPhysi...) ▾ [翻译此页](#)作者: J Fierstra - 2013 - 被引用次数: 41 - [相关文章](#)

2013年9月30日 - 3Joint Department of Medical Imaging and the Functional ... CVR is the  
 ratio of the change in the BOLD-MRI signal in response to ... flow in the patient with moya  
 moya disease revealed multiple areas ..... end-tidal PCO2 (PET, CO2 ) is a suitable  
 surrogate for Pa, CO2 , .... First, with alveolar ventilation pre-

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Validation with single photon emission computed tomography and positron  
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作者: M Lee - 2009 - 被引用次数: 77 - 相关文章

Keywords: **moyamoya disease**, cerebral blood flow, hemodynamics, xenon study, **positron emission tomography**, **single-photon emission computed** ... The main disadvantage of **PET imaging** is that it is much less available and relatively more ... acetazolamide challenge) as an **assessment** of functional reserve, as will be ...

### Research Progress of Moyamoya Disease in Children - NCBI

[www.ncbi.nlm.nih.gov](http://www.ncbi.nlm.nih.gov) > NCBI > Literature > PubMed Central (PMC) ▾ [翻译此页](#)

作者: J Piao - 2015 - 被引用次数: 3 - 相关文章

2015年7月3日 - During the onset of **Moyamoya disease** (MMD), progressive occlusion .... The **imaging** diagnosis and evaluation of children with MMD include DSA, ... **single-photon emission computed tomography** (SPECT), **positron** .... **Assessment of moyamoya disease** using multidetector row computed **tomography**.

### Surgical Management of Moyamoya Syndrome

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作者: ER Smith - 2005 - 被引用次数: 101 - 相关文章

**Moyamoya syndrome**, a vasculopathy characterized by chronic progressive stenosis at ..., of infarction seen on **computed tomography** or magnetic resonance **imaging** ... xenon CT, **positron emission tomography**, **single-photon emission computed** ... helpful in the neurologic assessment of patients

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