### **Accepted Manuscript**

The Position and Role of 4D-CTA in the Diagnosis and Treatment of Spinal Arteriovenous Fistulas

Satoshi Yamaguchi, Kohei Takemoto, Masaaki Takeda, Yosuke Kajihara, Takafumi Mitsuhara, Manish Kolakshyapati, Kazutoshi Mukada, Kaoru Kurisu

PII: \$1878-8750(17)30423-0

DOI: 10.1016/j.wneu.2017.03.100

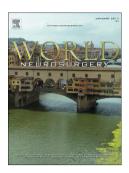
Reference: WNEU 5469

To appear in: World Neurosurgery

Received Date: 4 January 2017 Revised Date: 20 March 2017 Accepted Date: 21 March 2017

Please cite this article as: Yamaguchi S, Takemoto K, Takeda M, Kajihara Y, Mitsuhara T, Kolakshyapati M, Mukada K, Kurisu K, The Position and Role of 4D-CTA in the Diagnosis and Treatment of Spinal Arteriovenous Fistulas, *World Neurosurgery* (2017), doi: 10.1016/j.wneu.2017.03.100.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



# The Position and Role of 4D-CTA in the Diagnosis and Treatment of Spinal Arteriovenous Fistulas

Satoshi Yamaguchi<sup>1</sup>, Kohei Takemoto<sup>2</sup>, Masaaki Takeda<sup>1</sup>, Yosuke Kajihara<sup>3</sup>, Takafumi Mitsuhara<sup>1</sup>, Manish Kolakshyapati<sup>1</sup>, Kazutoshi Mukada<sup>3</sup>, and Kaoru Kurisu<sup>1</sup>

#### The corresponding author: Satoshi Yamaguchi

Department of Neurosurgery, Hiroshima University Graduate School of Biomedical Sciences

1-2-3 Kasumi, Minami-ku, Hiroshima, Hiroshima 7348551, Japan

tel: +81-82-257-5227, fax: +81-82-257-5229

e-mail: satjp02@gmail.com

**KEY WORDS:** 4D-CTA, SPINAL ARTERIOVENOUS FISTULA, TEMPORAL RESOLUTION, DIFFICULT-TO-FIND ARTERIOVENOUS FISTULA

**RUNNING HEAD: 4D-CTA FOR SPINAL ARTERIOVENOUS FISTULAS** 

<sup>&</sup>lt;sup>1</sup> Department of Neurosurgery, Hiroshima University Graduate School of Biomedical and Health Sciences, Hiroshima, Japan

<sup>&</sup>lt;sup>2</sup> Technical Division of Diagnostic Imaging, Itsukaichi Memorial Hospital, Hiroshima, Japan

<sup>&</sup>lt;sup>3</sup> Department of Neurosurgery, Itsukaichi Memorial Hospital, Hiroshima, Japan

#### Download English Version:

## https://daneshyari.com/en/article/5634340

Download Persian Version:

https://daneshyari.com/article/5634340

<u>Daneshyari.com</u>