

# Accepted Manuscript

Soluble Fms-like tyrosine kinase-1 (sFlt-1) and risk of cerebral vasospasm after aneurysmal subarachnoid hemorrhage

Christoph J. Griessenauer, MD, Michelle H. Chua, Khalid A. Hanafy, MD, Yaw Tachie Baffour, BS, Ruiya Chen, MS, Robert H. LeBlanc, III, MS, Apar S. Patel, MD, Mohamed Salem, MD, S. Ananth Karumanchi, MD, Dihua Xu, PhD, Ravi Thadhani, MD, Christopher S. Ogilvy, MD, Ajith J. Thomas, MD



PII: S1878-8750(17)31429-8

DOI: [10.1016/j.wneu.2017.08.128](https://doi.org/10.1016/j.wneu.2017.08.128)

Reference: WNEU 6378

To appear in: *World Neurosurgery*

Received Date: 4 July 2017

Revised Date: 20 August 2017

Accepted Date: 22 August 2017

Please cite this article as: Griessenauer CJ, Chua MH, Hanafy KA, Baffour YT, Chen R, LeBlanc III RH, Patel AS, Salem M, Karumanchi SA, Xu D, Thadhani R, Ogilvy CS, Thomas AJ, Soluble Fms-like tyrosine kinase-1 (sFlt-1) and risk of cerebral vasospasm after aneurysmal subarachnoid hemorrhage, *World Neurosurgery* (2017), doi: 10.1016/j.wneu.2017.08.128.

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.

**Soluble Fms-like tyrosine kinase-1 (sFlt-1) and risk of cerebral vasospasm after  
aneurysmal subarachnoid hemorrhage**

Christoph J. Griessenauer MD<sup>1,\*</sup>, Michelle H. Chua<sup>2,\*</sup>, Khalid A. Hanafy MD<sup>3,4</sup>, Yaw  
Tachie Baffour BS<sup>5</sup>, Ruiya Chen MS<sup>3</sup>, Robert H. LeBlanc III MS<sup>3</sup>, Apar S. Patel MD<sup>1</sup>,  
Mohamed Salem MD<sup>1</sup>, S. Ananth Karumanchi MD<sup>6</sup>, Dihua Xu PhD<sup>7</sup>, Ravi Thadhani  
MD<sup>7</sup>, Christopher S. Ogilvy MD<sup>1</sup>, Ajith J. Thomas MD<sup>1</sup>

<sup>1</sup>Neurosurgical Service, Beth Israel Deaconess Medical Center, Harvard Medical School,  
Boston, MA

<sup>2</sup>Harvard Medical School, Boston, MA, USA

<sup>3</sup>Department of Neurology, Beth Israel Deaconess Medical Center, Harvard Medical  
School, Boston, MA

<sup>4</sup>Division of Neurointensive Care Medicine, Beth Israel Deaconess Medical Center,  
Harvard Medical School, Boston, MA

<sup>5</sup>Tufts University School of Medicine, Boston, MA

<sup>6</sup>Departments of Medicine and of Obstetrics and Gynecology, Beth Israel Deaconess  
Medical Center, Boston, Massachusetts.

<sup>7</sup>Department of Medicine, Massachusetts General Hospital, Boston, Massachusetts

\*Contributed equally.

Running head: Anti-angiogenic factors and cerebral vasospasm

Download English Version:

<https://daneshyari.com/en/article/8692200>

Download Persian Version:

<https://daneshyari.com/article/8692200>

[Daneshyari.com](https://daneshyari.com)