

Accepted Manuscript

Endothelial nitric oxide synthase polymorphism is associated with delayed cerebral ischemia following aneurysmal subarachnoid hemorrhage

Philipp Hendrix, MD, Paul M. Foreman, MD, Mark R. Harrigan, MD, Winfield S. Fisher, 3rd, MD, Nilesh A. Vyas, MD, Robert H. Lipsky, PhD, Minkuan Lin, PhD, Beverly C. Walters, MD, MSc, R. Shane Tubbs, PhD, Mohammadali M. Shoja, MD, Jean-Francois Pittet, MD, Mali Mathru, MD, Christoph J. Griessenauer, MD

PII: S1878-8750(17)30235-8

DOI: [10.1016/j.wneu.2017.02.062](https://doi.org/10.1016/j.wneu.2017.02.062)

Reference: WNEU 5293

To appear in: *World Neurosurgery*

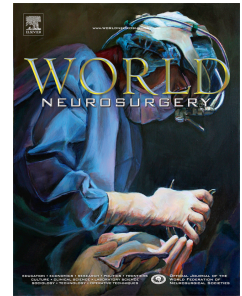
Received Date: 30 December 2016

Revised Date: 10 February 2017

Accepted Date: 11 February 2017

Please cite this article as: Hendrix P, Foreman PM, Harrigan MR, Fisher 3rd WS, Vyas NA, Lipsky RH, Lin M, Walters BC, Tubbs RS, Shoja MM, Pittet J-F, Mathru M, Griessenauer CJ, Endothelial nitric oxide synthase polymorphism is associated with delayed cerebral ischemia following aneurysmal subarachnoid hemorrhage, *World Neurosurgery* (2017), doi: 10.1016/j.wneu.2017.02.062.

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.



Endothelial nitric oxide synthase polymorphism is associated with delayed cerebral ischemia following aneurysmal subarachnoid hemorrhage

Philipp Hendrix MD¹, Paul M. Foreman MD², Mark R. Harrigan MD², Winfield S. Fisher 3rd MD², Nilesh A. Vyas MD³, Robert H. Lipsky PhD^{3,4}, Minkuan Lin PhD⁴, Beverly C. Walters MD, MSc^{2,3,4}, R. Shane Tubbs, PhD⁵, Mohammadali M. Shoja MD⁶, Jean-Francois Pittet MD⁷, Mali Mathru MD⁷, Christoph J. Griessenauer MD^{8,9}

¹Department of Neurosurgery, Saarland University Medical Center and Saarland University Faculty of Medicine, Homburg/Saar, Germany

²Department of Neurosurgery, University of Alabama at Birmingham, AL

³Department of Neurosciences, Inova Health System, Falls Church, VA

⁴Department of Molecular Neuroscience, George Mason University, Fairfax, VA

⁵Seattle Science Foundation, Seattle, WA

⁶Neuroscience Research Center, Tabriz University of Medical Sciences, Tabriz, Iran

⁷Department of Anesthesiology, University of Alabama at Birmingham, AL

⁸Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, MA

⁹Department of Neurosurgery, Geisinger Health System, Danville, PA

Running head: Endothelial nitric oxide synthase polymorphism and delayed cerebral ischemia

Key words: endothelial nitric oxide synthase; eNOS; polymorphism; aneurysm size; subarachnoid hemorrhage; delayed cerebral ischemia; vasospasm; eNOS SNP 786 T->C

Corresponding author:

Philipp Hendrix, MD

Klinik für Neurochirurgie

Universität des Saarlandes

Kirrberger Straße 100, Gebäude 90.5

Download English Version:

<https://daneshyari.com/en/article/5634130>

Download Persian Version:

<https://daneshyari.com/article/5634130>

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