Haemodynamic effects of stent diameter and compaction ratio on flow-diversion treatment of intracranial aneurysms: a numerical study of a successful and an unsuccessful case

Mingzi Zhang, Yujie Li, Xi Zhao, David I. Verrelli, Winston Chong, Makoto Ohta, Yi Qian

PII: S0021-9290(17)30242-7
DOI: http://dx.doi.org/10.1016/j.jbiomech.2017.05.001
Reference: BM 8211

To appear in: *Journal of Biomechanics*

Received Date: 1 January 2017
Revised Date: 2 April 2017
Accepted Date: 5 May 2017

Please cite this article as: M. Zhang, Y. Li, X. Zhao, D.I. Verrelli, W. Chong, M. Ohta, Y. Qian, Haemodynamic effects of stent diameter and compaction ratio on flow-diversion treatment of intracranial aneurysms: a numerical study of a successful and an unsuccessful case, *Journal of Biomechanics* (2017), doi: http://dx.doi.org/10.1016/j.jbiomech.2017.05.001

Title:

Haemodynamic effects of stent diameter and compaction ratio on flow-diversion treatment of intracranial aneurysms: a numerical study of a successful and an unsuccessful case

Authors:

Mingzi Zhang[1,2], Yujie, Li[1,2], Xi Zhao[1], David I. Verrelli[1], Winston Chong[3,4], Makoto Ohta[5], Yi Qian[1,*]

Affiliations:

1. Department of Biomedical Sciences, Faculty of Medicine and Health Sciences, Macquarie University, Sydney, New South Wales, Australia
2. Graduate School of Engineering, Tohoku University, Sendai, Miyagi, Japan
3. Neuroradiology Department, Monash Medical Centre, Melbourne, Victoria, Australia
4. Department of Surgery, School of Clinical Sciences, Faculty of Medicine, Nursing and Health Sciences, Monash University, Clayton, Victoria, Australia
5. Institute of Fluid Science, Tohoku University, Sendai, Miyagi, Japan