

SUPPLEMENTAL MATERIAL

Optimal Cerebral Perfusion Pressure and Brain Tissue Oxygen in Aneurysmal Subarachnoid Hemorrhage: a correlation study

Short title: Correlation of CPPopt and Brain Tissue Oxygen

Megjhani, Murad PhD^{1*}
Weiss, Miriam MD^{2*}
Ford, Jenna MD³
Terilli, Kalijah¹
Kastenholz, Nick²
Nametz, Daniel¹
Kwon, Soon Bin PhD¹
Velazquez, Angela MD³
Agarwal, Sachin MD MPH^{3,4}
Roh, David J. MD^{3,4}
Conzen-Dilger, Catharina MD²
Albanna, Walid MD²
Veldeman, Michael MD²
Connolly Jr., E. Sander MD^{4,5}
Claassen, Jan MD^{3,4}
Aries, Marcel MD PhD^{6,7}
Schubert, Gerrit Alexander MD^{2,8}
Park, Soojin MD^{1,3,4,9}

* Co-First Author, equal contributions

¹ Department of Neurology, Columbia University, New York, USA

² Department of Neurosurgery, RWTH Aachen University, Aachen, Germany

³ Program in Hospital and Intensive Care Informatics, Department of Neurology, Columbia University, New York, USA

⁴ New York-Presbyterian Hospital, Columbia University Irving Medical Center, New York, USA

⁵ Department of Neurosurgery, Columbia University, New York, USA

⁶ Department of Intensive Care, Maastricht University Medical Center, Maastricht University, Maastricht, The Netherlands

⁷ School for Mental Health and Neuroscience (MHeNS), Maastricht University Medical Center, Maastricht, The Netherlands

⁸ Department of Neurosurgery, Kantonsspital Aarau, Aarau, Switzerland

⁹ Department of Biomedical Informatics, Columbia University, New York, USA

Corresponding author:

Soojin Park

177 Fort Washington Ave., New York, NY 10013

Sp3291@cumc.columbia.edu

Table S1: Results of non-linear regression using natural spline

	All		DCI-		DCI+	
	Coeff [0.025-0.975]	P value	Coeff [0.025-0.975]	P value	Coeff [0.025-0.975]	P value
Intercept	18.88[16.86-20.9]	<0.001	19.23[16.83-21.63]	<0.001	18.09[14.71-21.46]	<0.001
Degree 0	-4.47[-9.76-0.83]	0.098	-2.61[-8.96-3.73]	0.419	-5.83[-13.2-1.55]	0.122
Degree 1	6.43[4.31-8.55]	<0.001	3.88[1.35-6.41]	0.003	9.35[5.89-12.81]	<0.001
Degree 2	7.04[4.83-9.25]	<0.001	4.97[2.32-7.61]	<0.001	9.75[6.09-13.41]	<0.001
Degree 3	9.88[1.64-18.12]	0.019	13[3.27-22.73]	0.009	4.81[-9.26-18.88]	0.503