## **Description of Additional Supplementary Files**

File name: Supplementary Data 1

**Description:** Raw data for Fig. 1a; source data for maximum aqueductal CSF stroke volume for healthy subjects and patients under BCs "A", "B", and "C".

File name: Supplementary Data 2

**Description:** Raw data for Figs. 3a-c; source data for the simulation data and CINE PC-MRI data of the maximum CSF velocity in the CA for healthy subjects and patients under BCs "A", "B", and "C".