

## Supplementary Information

### **Fabrication of cerebral aneurysm simulator with a desktop 3D printer**

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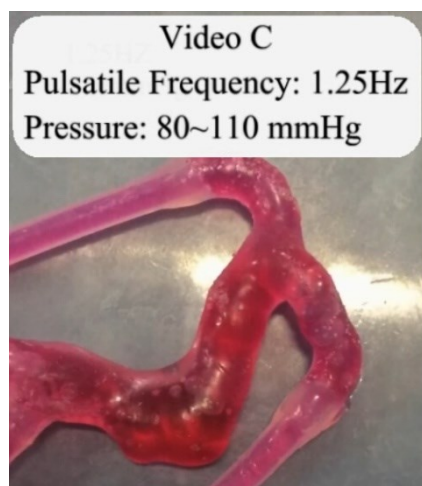
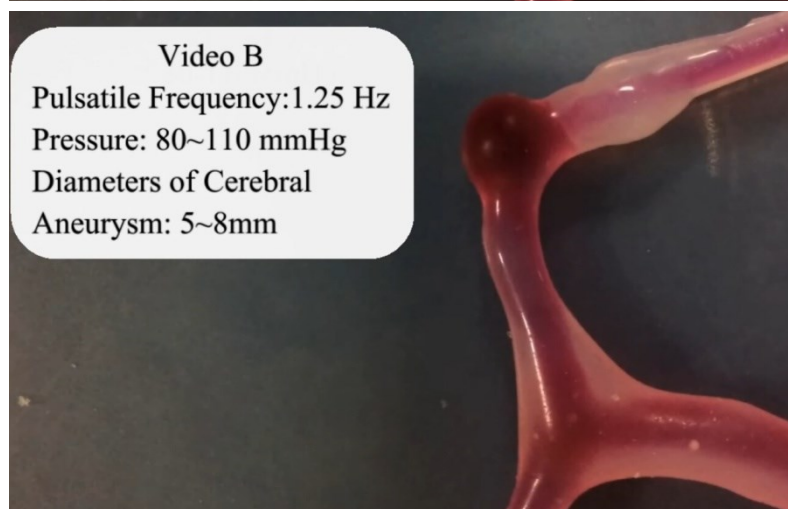
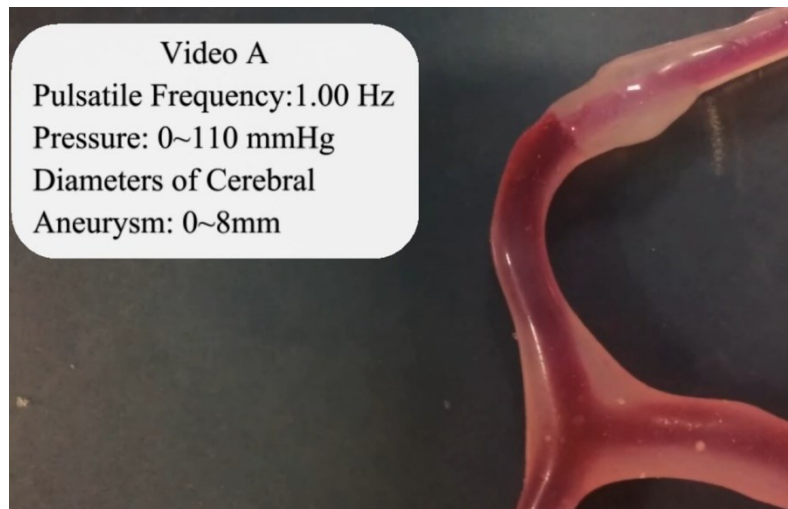
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**Supplementary Video.** (see **Supplementary\_Video.avi** for the entire video)

**The pulsatile frequency and the maximum diameters of cerebral aneurysm:** In the video A, the diameters of cerebral aneurysm range from 0~8 mm with the conditions that the pulsatile frequency of 1Hz and pressure of 0~110 mmHg. In the video B, the diameters of cerebral aneurysm range from 5~8 mm with the conditions that the pulsatile frequency of 1.25Hz and pressure of 80~110 mmHg. The blister-like dilation in vascular model of the video C is irregular with the conditions that the pulsatile frequency of 1.25Hz and pressure of 80~110 mmHg.