



**Suppl. Fig. 1. Intraoperative LSCI.** **A.** Principle of LSCI: Low power infrared laser source illuminates the tissue and video camera detects the light scattered from the tissue. **B.** Example of laser speckle pattern detected by the camera. **C.** The magnitude of blood flow at each pixel is colour coded and quantified in arbitrary units (a.u.). **D.** Blood flow maps at low (Lo) and high (Hi)  $p_a\text{CO}_2$  of left frontal lobe of patient having craniotomy. **E.** Plot of cerebral blood flow (CBF) vs. time at sevoflurane MAC 0.7 (blue), 1.0 (red), and 1.5 (green) of left frontal lobe of patient having craniotomy.