

## Appendix A

| <b>Cerebral parameter</b>               | <b>Normal range</b>   |
|---|---|
| Blood density                           | 1.055 -1.066  |
| Blood radii (Brain AVM)                 | 422+/-136 microm (mean +/- SD)  |
| Blood Wall thickness : 54+/-14 microm   | 54+/-14 microm  |
| Blood Viscosity:                        | (48.264 – 65.371) centipoise  |
| Blood Vessel Elasticity:                | (1.672 – 1.978)   |
| Cerebral Blood Vessel Elasticity:       | (0.708 – 1.942)   |
| Blood volume range in brain vessel      | 2.4 to 4.25 mL  |
| Blood flow velocity - cerebral arteries | Middle arteries 60±8,<br>anterior 52±9,<br>Posterior 42±6,<br>vertebral 39±8<br>basilar 48±8cm/sec                                  |
| normal cerebral blood flow rate is      | Average values of blood flow velocities in cerebral capillaries : 0.5 to 1.5mm/sec.<br>45-50ml 100g <sup>-1</sup> min <sup>-1</sup> |
| Intracranial pressure (ICP)             | 50mmHg and 150 mmHg for Auto regulation<br>Lower range of ICP : 7–15mm Hg;<br>Upper range of ICP 20–25mm Hg                         |
| Length of the vessel                    | Arterioles – 10 um to 0.3cm<br>Capillaries – 8-10um<br>Venules – 8-100um  |