



ADDITIONAL FILE 2. Monitoring setup. **A.** Monitoring from the injured spinal cord of Mean Arterial Pressure (MAP), Intra Spinal Pressure (ISP), Spinal Cord Perfusion Pressure (SCPP), Micro Dialysis (MD) to detect tissue glucose and tissue Lactate to Pyruvate Ratio (LPR), as well as tissue oxygen ($p_{\text{sct}}\text{O}_2$). **B.** Example of multimodality monitoring from a patient with cervical TSCI (21 years old, C4 ASIA B). Plots of **C.** $p_{\text{sct}}\text{O}_2$ vs. SCPP, **D.** tissue glucose vs. SCPP, and **E.** tissue LPR vs. SCPP. Mean \pm standard error. Best-fit quadratics (D: $r^2 = 0.78$, E: $r^2 = 0.98$, F: $r^2 = 0.87$).