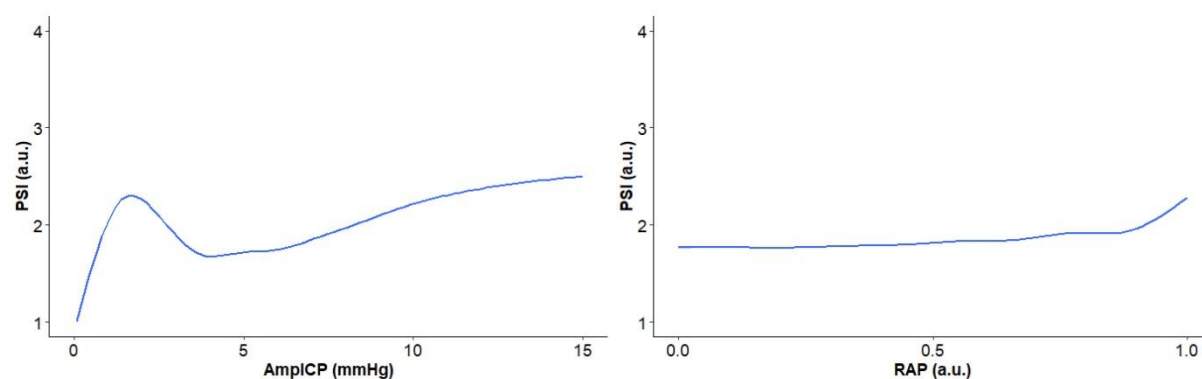


Additional file 1. PSI in relation to AmpICP and RAP after exclusion of extreme ICP values



These sensitivity analyses illustrate the potentially non-linear relationships between PSI and AmpICP and RAP, as modelled using GAMs. Each analysis was restricted to physiologically relevant ranges: PSI 1-4, AmpICP 0-15 mmHg, and RAP 0.0-+1.0. To reduce confounding from extreme intracranial hypertension, only data points with concurrent ICP below 40 mmHg were included.

AmpICP = peak-to-peak ICP pulse amplitude. A.u. = Arbitrary unit. GAM = Generalised additive models. ICP = Intracranial pressure. PSI = Pulse shape index. RAP = the correlation (r) between ICP amplitude and ICP.