



Supplemental Figure 1: Normal ultrasound image depicting the optic nerve sheath (Left), and the same image with anatomical landmarks highlighted (Right). A = Distance behind retina, B = Measurement of the optic nerve sheath



Supplemental Figure 2: Abnormal ultrasound image obtained from a patient with anoxic brain injury depicting distention of the optic nerve sheath. A = Distance behind retina, B = Measurement of the optic nerve sheath

Supplemental Table 1. Mean values of optic nerve sheath diameter (in cm) by Probe Orientation and Injury type

	Ischemic Stroke	Stroke with TPA	Intracerebral hemorrhage	Total	p-value
	Mean (95% CI)	Mean (95% CI)	Mean (95% CI)	Mean (95% CI)	
Left Eye Transverse First ONSD	0.54 (0.52, 0.56)	0.54 (0.51, 0.57)	0.59 (0.57, 0.61)	0.56 (0.54, 0.57)	0.040
Left Eye Transverse Second ONSD	0.56 (0.53, 0.60)	0.55 (0.51, 0.60)	0.59 (0.56, 0.62)	0.57 (0.55, 0.59)	0.213
Left Eye Longitudinal First ONSD	0.55 (0.52, 0.57)	0.54 (0.51, 0.57)	0.59 (0.57, 0.62)	0.56 (0.55, 0.58)	0.006
Left Eye Longitudinal Second ONSD	0.57 (0.53, 0.60)	0.55 (0.52, 0.58)	0.59 (0.56, 0.62)	0.57 (0.55, 0.59)	0.254
Right Eye Transverse First ONSD	0.55 (0.53, 0.58)	0.53 (0.51, 0.56)	0.60 (0.57, 0.63)	0.56 (0.55, 0.58)	0.001
Right Eye Transverse Second ONSD	0.57 (0.53, 0.60)	0.54 (0.49, 0.58)	0.59 (0.55, 0.63)	0.57 (0.55, 0.59)	0.132
Right Eye Longitudinal First ONSD	0.56 (0.53, 0.58)	0.54 (0.51, 0.56)	0.59 (0.57, 0.62)	0.56 (0.55, 0.58)	0.003
Right Eye Longitudinal Second ONSD	0.55 (0.51, 0.59)	0.55 (0.50, 0.59)	0.60 (0.56, 0.63)	0.57 (0.54, 0.59)	0.099