

On-line Table: Mean CBF and blood gas/heart rate dynamics during the breath-hold challenge^a

Experiment Phase	ASL CBF (mL/100g/min)					Oximetry			Venous Blood Gas Analysis			
	GM	WM	ACA	MCA	PCA	HR per min	SpO ₂ (%)	Glucose (mg/dL)	Lactate (mmol)	pO ₂ (mm Hg)	pCO ₂ (mm Hg)	
Baseline ^b	35.3 ± 12.3	8.9 ± 5.1	36.6 ± 12.2	37.9 ± 14.5	29.1 ± 9.9	79.9 ± 19.2	98.9 ± 1.2	98.4 ± 11.8	1.35 ± 0.37	37.6 ± 9.7	43.3 ± 7.5	
Early breath-hold ^c	41.6 ± 15.1	12.3 ± 6.6	44.1 ± 15.9	44.9 ± 16.9	32.7 ± 12.6	63.7 ± 11.1	93.7 ± 3.6	98.8 ± 12.0	1.53 ± 0.37	33.1 ± 6.7	42.9 ± 5.7	
Late breath-hold ^d	53.6 ± 12.5	20.6 ± 6.0	56.8 ± 12.0	57.3 ± 14.2	42.7 ± 10.8	66.9 ± 24.6	75.0 ± 9.0	100.4 ± 11.8	1.60 ± 0.32	26.8 ± 4.7	48.8 ± 10.8	
Early recovery ^e	29.6 ± 11.6	6.6 ± 4.9	30.8 ± 11.0	32.2 ± 13.2	22.0 ± 10.9	65.1 ± 13.2	97.7 ± 1.4	103.5 ± 13.2	1.54 ± 0.37	40.0 ± 6.4	40.0 ± 6.1	
Late recovery	33.6 ± 12.1	8.0 ± 5.3	34.7 ± 12.0	36.0 ± 13.5	27.1 ± 11.0	61.2 ± 11.0	98.1 ± 1.3	—	—	—	—	

Note:—GM indicates CBF in total gray matter ROI; WM, CBF in total WM ROI; ACA, anterior cerebral artery; MCA, middle cerebral artery; PCA, posterior cerebral artery; CBF in mL/100 g/min; heart rate in /min; SpO₂ in %, glucose in mg/dL; lactate in mEq/L; partial pressure of oxygen and carbon dioxide (pO₂ and pCO₂) in mmHg.

^a Data in mean ± standard deviation.

^b Baseline: last 2 minutes and 30 seconds before breath-hold at normal ventilation.

^c Early breath-hold: first 2 minutes and 30 seconds of breath-hold.

^d Late breath-hold: second 2 minutes and 30 seconds of breath-hold.

^e Early recovery: first 2 minutes and 30 seconds after breath-hold.

^f Late recovery: second 2 minutes and 30 seconds after breath-hold.