

Changes in cerebral metabolites in obstructive sleep apnea: a systemic review and meta-analysis

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Supplementary Table 1 Cerebral metabolites with different units in different studies in OSA and control group

Study	OSA	Control	<i>p</i>
NAA in hippocampus			
Bartlett et al ³¹ ,2004	9.94±6.68(relative to water resonance)	9.06±2.86(relative to water resonance)	1.00
Kizilgoz et al ³⁴ ,2013	1.57±0.63(N/A)	2.36±0.42(N/A)	-
Sharma et al ³⁸ ,2010	6.19±1.22(mmol/L)	6.13±0.93(mmol/L)	0.90
Cr in hippocampus			
Bartlett et al ³¹ ,2004	6.94±6.13(relative to water resonance)	9.62±3.79(relative to water resonance)	<0.01
Kizilgoz et al ³⁴ ,2013	0.8±0.13(N/A)	0.92±0.11(N/A)	-
Sharma et al ³⁸ ,2010	4.78±1(mmol/L)	5.21±0.84(mmol/L)	0.29
NAA in frontal lobe			
Alchanatis et al ³⁵ ,2004	7.04±0.97(mmol/kg wet weight)	7.64±0.89(mmol/kg wet weight)	-
Gharraf et al ³⁶ ,2014	37±4.19(mmol/L)	47±1.70(mmol/L)	<0.01
Sharma et al ³⁸ ,2010	7.07±0.76(mmol/L)	7.03±1.06(mmol/L)	-
Cho in frontal lobe			
Alchanatis et al ³⁵ ,2004	1.58±0.14(mmol/kg wet weight)	1.88±0.5(mmol/kg wet weight)	-
Gharraf et al ³⁶ ,2014	23.4±0.63(mmol/L)	27.5±1.51(mmol/L)	<0.01
Sharma et al ³⁸ ,2010	1.63±0.8(mmol/L)	1.38±0.4(mmol/L)	-
NAA in frontal white matter			
Alchanatis et al ³⁵ ,2004	6.76±1.06(mmol/kg wet weight)	7.68±1.06(mmol/kg wet weight)	0.04
Gharraf et al ³⁶ ,2014	37±4.19(mmol/L)	47±1.70(mmol/L)	<0.01
Sharma et al ³⁸ ,2010	7.50±0.69(mmol/L)	7.57±2.07(mmol/L)	0.94
Cho in frontal white matter			
Alchanatis et al ³⁵ ,2004	1.75±0.33(mmol/kg wet weight)	2.18±0.44(mmol/kg wet weight)	0.02
Gharraf et al ³⁶ ,2014	23.4±0.63(mmol/L)	27.5±1.51(mmol/L)	<0.01
Sharma et al ³⁸ ,2010	2.22±0.25(mmol/L)	1.87±0.21(mmol/L)	0.09

Abbreviations: NAA, N-acetylaspartate; Cho, choline; Cr, creatine; OSA, Obstructive sleep apnea;

N/A, not afford.