

**SUPPLEMENTARY MATERIAL**

**Supplementary Table 1:** CSF values in AD and DD

CSF Biomarkers	AD (n= 63)	DD (n = 63)	P	R <sup>2</sup>
	median / IQR	median / IQR		
Abeta1-42	485.8 / 328.0 – 545.0	867.0 / 703.8 – 1214.0	<b>0.000</b>	0.50
Abeta1-40	8164.5 / 5805.0 – 10150.0	7073.5 / 6367.5 – 9496.0	0.905	<0.01
Total tau	577.0 / 404.0 – 663.5	232.0 / 197.5 – 266.0	<b>0.000</b>	0.57
Phospho-tau	83.0 / 67.0 – 101.3	44.5 / 35.5 – 55.8	<b>0.000</b>	0.41
Abeta1-42/Abeta1,40	0.060 / 0.050 – 0.078	0.130 / 0.110 – 0.148	<b>0.000</b>	0.57

**Legend:** AD: Alzheimers disease; DD: Depressive disorder

**Supplementary Table 2:** CSF values in nAD and dAD

CSF Biomarkers	nAD (n= 98)	dAD (n = 81)	P	R <sup>2</sup>
	median / IQR	median / IQR		
Abeta1-42	416.0 / 342.8 – 545.0	455.0 / 327.5 – 545.5	0.522	<0.01
Abeta1,40	8615.0 / 7220.0 – 10625.0	8187.5 / 6025.0 – 10665.0	0.222	0.01
Total tau	570.5 / 424.3 – 646.0	561.0 / 404.0 – 685.0	0.961	<0.01
Phospho-tau	84.0 / 72.0 – 100.5	74.0 / 60.0 – 92.0	0.054	0.03
Abeta1-42/Abeta1,40	0.05 / 0.04 – 0.06	0.06 / 0.05 – 0.08	<b>0.030</b>	0.03

**Legend:** dAD: Alzheimer patients with depressive syndrome; nAD: Alzheimer patients without depressive syndrome