

Supplementary

## Cerebrospinal fluid sTREM2 in Alzheimer's disease - comparisons between clinical presentation and AT classification

Anne-Brita Knapskog\* <sup>1</sup>, Kristi Henjum<sup>2,3</sup>, Ane-Victoria Idland<sup>1,4</sup>, Rannveig Sakshaug Eldholm<sup>5,6</sup>, Karin Persson<sup>1,7</sup>, Ingvild Saltvedt<sup>5,6</sup>, Leiv Otto Watne<sup>1</sup>, Knut Engedal<sup>1,7</sup>, Lars N.G. Nilsson<sup>2</sup>.

<sup>1</sup> Department of Geriatric Medicine, Oslo University Hospital, Oslo, Norway

<sup>2</sup> Department of Pharmacology, Institute of Clinical Medicine, University of Oslo and Oslo University Hospital, Oslo, Norway

<sup>3</sup> Department of Geriatric Medicine, Institute of Clinical Medicine, University of Oslo, Oslo, Norway

<sup>4</sup> Institute of Basic Medical Sciences, University of Oslo, Oslo, Norway

<sup>5</sup> Department of Neuromedicine and Movement Science, Norwegian University of Science and Technology (NTNU), Trondheim,

<sup>6</sup> Department of Geriatrics, St Olavs Hospital, University Hospital of Trondheim,

<sup>7</sup> Norwegian National Advisory Unit on Ageing and Health, Vestfold Hospital Trust,

Supplementary Table 1. AT(N) classification

	<b>A-T-(N-)</b>	<b>A+T-(N-)</b>	<b>A+T+(N-)</b>	<b>A+T+(N+)</b>	<b>A+T-(N+)</b>	<b>A-T+(N-)</b>	<b>A-T-(N+)</b>	<b>A-T+(N+)</b>
The whole cohort (n [%])	75 (18.2)	58 (14.1)	7 (1.7)	158 (38.3)	51 (12.4)	2 (0.5)	12 (2.9)	49 (11.9)
sTREM2 ng/ml (mean [SD])	7.9 (3.6)	6.8 (2.9)	7.5 (1.2)	10.9 (5.0)	8.8 (4.0)	12.2 (0.1)	9.2 (3.4)	10.8 (4.2)
AD-MCI (n [%])	10 (16.1)	12 (19.4)	0	25 (40.3)	9 (14.5)	1 (1.6)	2 (3.2)	3 (4.8)
sTREM2 ng/ml (mean [SD])	7.0 (3.7)	8.1 (4.2)		11.9 (4.9)	9.5 (3.0)	12.2	10.3 (1.4)	9.9 (5.4)
AD dementia patients (n [%])	19 (8.0)	32 (13.5)	5 (2.1)	122 (51.5)	40 (16.9)	1 (0.4)	4 (1.7)	14 (5.9)
sTREM2 ng/ml (mean [SD])	8.9 (5.5)	6.4 (2.5)	7.5 (0.8)	10.6 (5.0)	8.7 (4.2)	12.2	7.9 (4.1)	10.7 (4.0)
Cognitively unimpaired (n [%])	46 (40.7)	14 (12.4)	2 (1.8)	11 (9.7)	2 (1.8)	0	6 (5.3)	32 (28.3)
sTREM2 ng/ml (mean [SD])	7.7 (2.5)	6.6 (2.2)	7.2 (2.4)	10.8 (4.1)	7.2 (4.8)		9.7 (3.5)	10.9 (4.2)

Comparison not possible due to few or no participants in some groups

Supplementary Table 2. A+T+N+ versus A+T-N+

	<b>A+T+N+</b>	<b>A+T-N+</b>	<b>P</b>
The whole cohort (n [%])	158 (38.3)	51 (12.4)	
sTREM2 ng/ml (mean [SD])	10.9 (5.0)	8.8 (4.0)	0.007a
AD-MCI (n [%])	25 (40.3)	9 (14.5)	
sTREM2 ng/ml (mean [SD])	11.9 (4.9)	9.5 (3.0)	0.18a
AD dementia patients (n [%])	122 (51.5)	40 (16.9)	
sTREM2 ng/ml (mean [SD])	10.6 (5.0)	8.7 (4.2)	0.02a
Cognitively unimpaired (n [%])	11 (9.7)	2 (1.8)	
sTREM2 ng/ml (mean [SD])	10.8 (4.1)	7.2 (4.8)	*

a = Mann-Whitney test, \*comparison not possible due to few patients in one group