(i) HS vs MCI p value (ii) HS vs AD p value

Table 3: Receiver operating characteristic analysis for the evaluation of the diagnostic significance of serum 25-hydroxyvitamin

0.001

0.001

HS: healthy subjects, MCI: individuals with mild cognitive impairment, AD: individuals with Alzheimer's disease, AUC: area under the

0.696(0.630 - 0.762)

 ≤ 13.95

62.3 (53.7 - 70.4)

68.9 (59.1 - 77.7)

72.9 (66.2 - 78.7)

57.7 (51.5 - 63.7)

65.2 (58.8 - 71.2)

0.305

3.67 (2.14 - 6.30)

< 0.001

< 0.001

< 0.001

AUC (95 % CI) 0.598 (0.522 - 0.675) 0.013 Cut-off < 18.35

Sensitivity (%)

Specificity (%)

Cohen's kappa

OR (95 % CI)

Overall agreement (%)

PPV (%)

NPV (%)

70.6 (61.2 - 79.0)

51.5 (41.4 - 61.4)

60.6 (55.0 - 66.0)

62.4 (54.0 - 70.1)

61.3 (54.4 - 67.9)

0.222

2.55(1.45 - 4.49)

curve, CI: confidence interval, PPV: positive predictive value, NPV: negative predictive value, OR: odds ratio.

D concentrations for (i) mild cognitive impairment and (ii) Alzheimer's disease.