

Table 4: Receiver operating characteristic analysis for the evaluation of the discrimination ability of serum 25-hydroxyvitamin D concentrations of (i) mild cognitive impairment from Alzheimer's disease and (ii) mild cognitive impairment progressed or not to Alzheimer's disease.

	(i) MCI vs AD	p value	(ii) MCI remained vs MCI conversed to AD	p value
AUC (95 % CI)	0.601 (0.530 - 0.672)	0.007	0.631 (0.522 - 0.739)	0.022
Cut-off	≤ 11.10		≤ 14.90	
Sensitivity (%)	50.0 (41.4 - 58.6)		57.6 (44.8 - 69.7)	
Specificity (%)	71.6 (62.1 - 79.8)		67.4 (51.5 - 80.9)	
PPV (%)	69.0 (61.3 - 75.8)		73.1 (62.7 - 81.4)	
NPV (%)	53.1 (48.0 - 58.1)		50.9 (42.2 - 59.5)	
Overall agreement (%)	59.5 (53.1 - 65.7)		61.5 (51.7 - 70.6)	
Cohen's kappa	0.208	0.001	0.237	0.011
OR (95 % CI)	2.52 (1.48 - 4.29)	0.001	2.81 (1.26 - 6.28)	0.011

MCI: individuals with mild cognitive impairment, AD: individuals with Alzheimer's disease, AUC: area under the curve, CI: confidence interval, PPV: positive predictive value, NPV: negative predictive value, OR: odds ratio.