Supplemental Material for Manuscript:

Assessing the Clinical Meaningfulness of the Alzheimer's Disease Composite Score

(ADCOMS) Tool

Authors and Affiliations: Amir Abbas Tahami Monfared, MD, PhD[1,2]; William R. Lenderking, PhD[3]; Yulia Savva, PhD[3]; Mary Kate Ladd, MA[3]; Quanwu Zhang, PhD[1], for the Alzheimer's Disease Neuroimaging Initiative[*]

[1]Eisai, Inc. Nutley, NJ, USA

[2]McGill University, Epidemiology, Biostatistics, and Occupational Health, Montreal (QC), Canada.

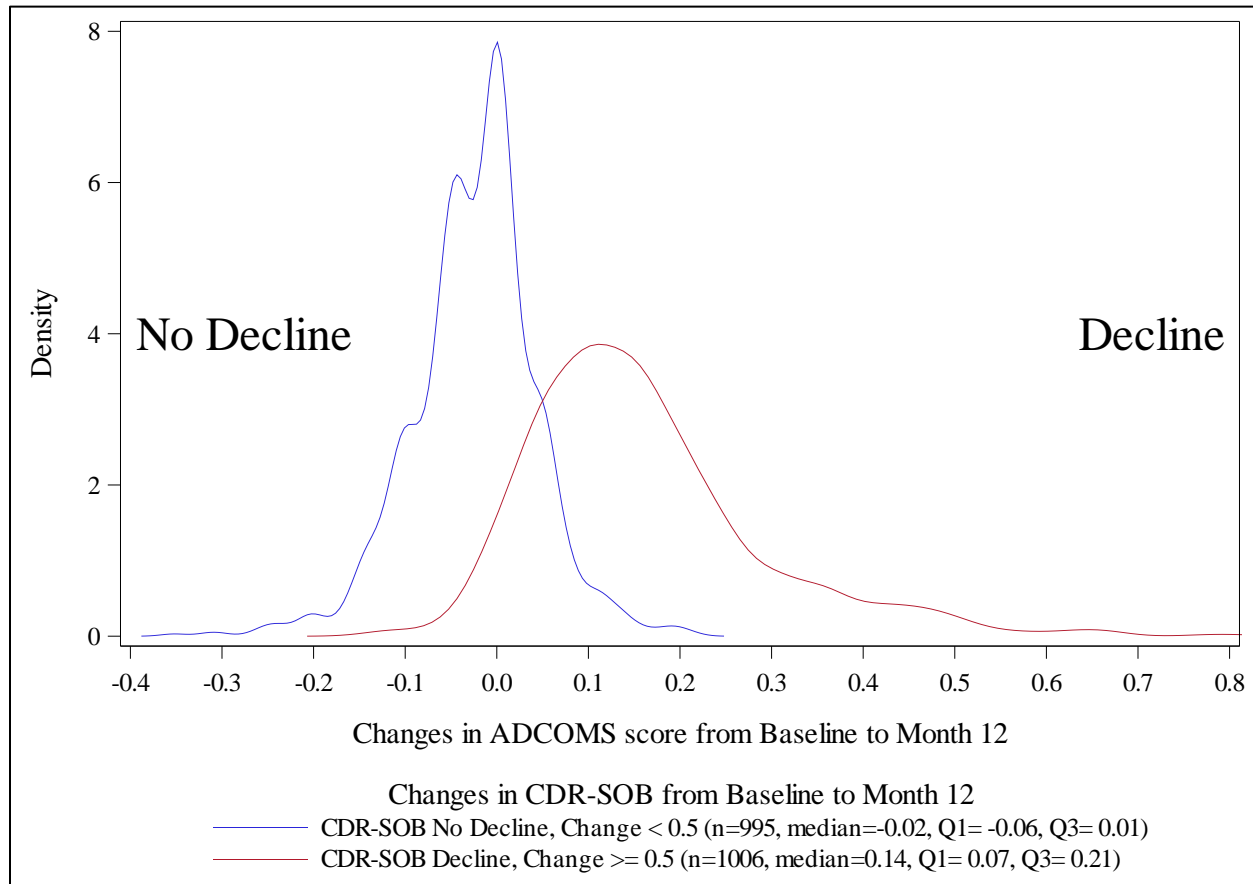[3]Evidera Inc., Bethesda, MD, USA

Corresponding Author:

Amir Abbas Tahami Monfared

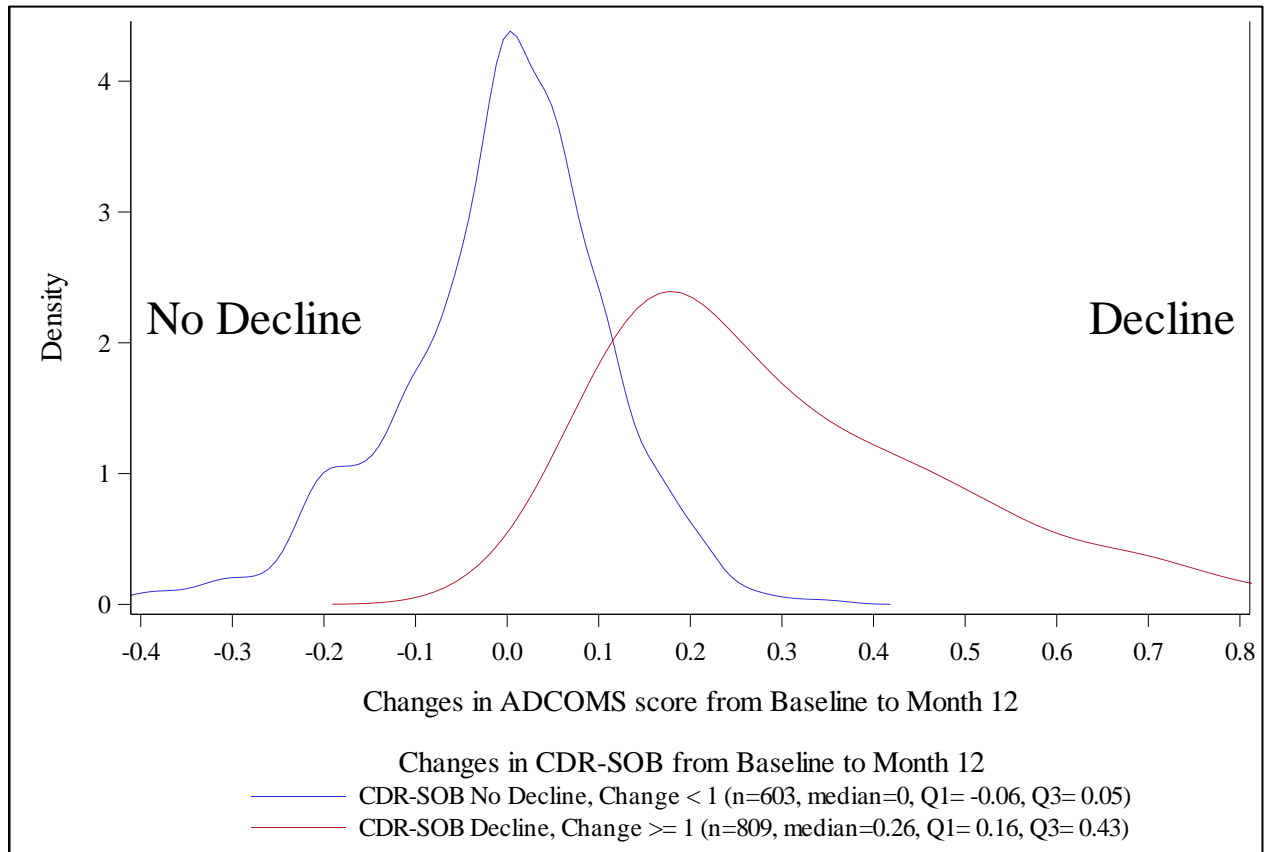Eisai Inc.

200 Metro Blvd., Nutley, NJ 07110

Amir_Tahami@eisai.com

Supplemental Figure 1.   PDF Plot of the Change in ADCOMS Score from Baseline to Month 12 by CDR-SOB for MCI Patients

Abbreviations: ADCOMS = Alzheimer's Disease Composite Score; CDR-SOB = Clinical Dementia Rating Scale Sum of Boxes; MCI = mild cognitive impairment; PDF = probability density function

Supplemental Figure 2.   PDF Plot of the Change in ADCOMS Score from Baseline to Month 12 by CDR-SOB for Dementia Patients

Abbreviations: ADCOMS = Alzheimer's Disease Composite Score; CDR-SOB = Clinical Dementia Rating Scale Sum of Boxes; PDF = probability density function

Supplemental Table 1. ROC Analysis by APOE Status: Best Youden's Indices

	NACC	ADNI	Legacy Dataset
MCI			
APOE ε4 allele carrier	0.02 - 0.03	0.08	0.05, 0.06, 0.09
APOE ε4 allele non-carrier	0.02 - 0.03	0.04	0.03 – 0.05
Dementia			
APOE ε4 allele carrier	0.11	0.11	--
APOE ε4 allele non-carrier	0.06, 0.11	0.13	--

Abbreviations: ADNI = Alzheimer's Disease Neuroimaging Initiative; MCI = mild cognitive impairment; NACC = National Alzheimer's Coordinating; ROC = receiver operating characteristic