Supplementary Table 1

Predictors of models displayed in Fig. 3. Predictors of the 24 highest ranked models including 1 to 4 predictors are listed. Models were ranked according to their classification accuracy across bootstrapping trials for the prediction of MCI conversion and are identified by their corresponding rank in Fig. 3. digit span, total score of Wechsler's digit span forward and backward test; LHC, left hippocampus; TMT-B, trail making test B

Rank	Single predictor	2-predictor model	3-predictor model	4-predictor model
1	RERC	LHC digit span	LHC LR_{TAA} digit span	RHC CSF P-tau$_{181}$ TMT-B age
2	RHC	RHC digit span	LHC CSF P-tau$_{181}$ digit span	LHC CSF P-tau/Aβ_{1-42} LR_{TAA} digit span
3	TMT-B	RHC TMT-B	LHC ApoE digit span	RHC CSF P-tau$_{181}$ CSF P-tau/Aβ_{1-42} age
4	LHC	LHC AVLT recog.	RERC digit span age	RHC ApoE digit span age
5	CSF P-tau$_{181}$	RERC TMT-B	RHC TMT-B age	RERC TMT-B age gender
6	AVLT–IM REC	AVLT-DEL REC TMT-B	LHC TMT-A digit span	LHC ApoE digit span age
7	AVLT-DEL REC	LHC TMT-B	LHC digit span BNT	LHC ApoE AVLT–IM REC TMT-A
8	Cat fluency (veg)	RERC digit span	LHC CSF Aβ_{1-42} digit span	RHC ApoE AVLT recog. TMT-B
9	Digit score	RHC AVLT–IM REC	RERC LHC digit span	RHC AVLT recog. TMT-B age
10	CSF T-tau	CSF T-tau/Aβ_{1-42} TMT-B	LHC digit span age	RHC CSF P-tau/Aβ_{1-42} ApoE TMT-B
11	LERC	LERC digit span	LHC RHC AVLT–IM REC	LHC RHC LR_{TAA} digit span
12	AVLT recog.	CSF P-tau/Aβ1-42 TMT-B	RHC CSF Aβ1-42 digit span	LHC CSF P-tau$_{181}$ LR_{TAA} digit span
13	APOE	LERC cat fluency (veg)	RHC Cat. fluency (ANI) digit span	LHC LR_{TAA} ApoE digit span
14	Gender	LERC RHC	LERC LR_{TAA} digit span	RHC LR_{TAA} TMT-B digit span
15	CSF T-tau/Aβ_{1-42}	AVLT–IM REC TMT-B	RHC TMT-A digit span	RHC ApoE AVLT recog. TMT-B

Supplementary Table 1
(continued)

Rank	Single predictor	2-predictor model	3-predictor model	4-predictor model
16	TMT-A	LHC CSF T-tau	LHC digit span gender	LHC LR_{TAA} TMT-A digit span
17	CSF P-tau/$A\beta_{1-42}$	RERC gender	RHC TMT-B digit span	LHC RHC gender digit span
18	LR_{TAA}	RHC CSF $A\beta_{1-42}$	RHC CSF P-tau$_{181}$ digit span	RERC CSF T-tau TMT-B gender
19	BNT	CSF P-tau$_{181}$ digit span	RHC LR_{TAA} TMT-B	LHC LR_{TAA} AVLT recog. digit span
20	Cat. fluency (ANI)	LERC LHC	RHC ApoE digit span	LHC CSF P-tau$_{181}$ TMT-B age
21	Age	RHC age	RHC CSF P-tau$_{181}$ TMT-B	LHC CSF T-tau AVLT-DEL REC digit span
22	CSF $A\beta_{1-42}$	RHC digit span F	LHC RHC digit span	LHC RHC ApoE digit span
23	Digit span B	RHC cat fluency (veg)	LHC CSF $A\beta_{1-42}$ TMT-B	LHC CSF P-tau/$A\beta_{1-42}$ TMT-B digit span
24	Digit span F	RERC digit span B	LHC CSF T-tau digit span	LHC CSF T-tau ApoE TMT-B

APOE, binary ApoE genotype (ε4-allele carriers vs ε4-allele non-carriers); AVLT-DEL REC, AVLT delayed free recall; AVLT-IM REC, AVLT immediate free recall; AVLT-DEL RECOG, AVLT recognition memory; BNT, Benton naming test; Cat Fluency (ANI), Category fluency for category of animals; Cat Fluency (VEG), Category fluency for category of vegetables; Digit span B, Digit span backwards (length); Digit span F, Digit span forward (length); Digit Score, Digit span total score; LERC, left enthorinal cortex thickness; LHC, left hippocampus volume; RERC, right entorhinal cortex thickness; LHC, left hippocampus volume; TMT-A, Trail Making Test A; TMT-B, Train Making Test B.