

Table S3 Diagnostic criteria for inclusion

ADL - Activities of Daily Living; CAMDEX – Cambridge Mental Disorders of the Elderly Examination; CDR - Clinical Dementia Rating; CFT - Category Fluency Test; COWAT - Controlled Oral Word Association Test; CPAL - Continuous Paired Associates Learning; HDRS - Hamilton depression rating scale; MCI - Mild Cognitive Impairment; MMSE - Mini-Mental State Examination; MoCA - Montreal Cognitive Assessment; NR – Not Reported; TICS-M - Telephone Interview for Cognitive Status modified.

Author and year	Diagnostic criteria for inclusion
Kwok, 2020 (52)	1. MoCA score; 2. MMSE (18 to 22); 3. CDR Scale (0 to 4.4). International Shopping List Test; 5. CPAL; 6. COWAT; 7. CFT; 8. HDRS; 8. Aged ≥ 65 years old; 9. Serum homocysteine ≥ 10.0 mmol/L
Ma, 2019a (17)	1. MMSE (19 to 24); 2. Activities of Daily Living (ADL) scale; 3. Other criteria according to the modified Petersen's diagnostic standard on MCI (61); 4. Aged ≥ 65 years old
Ma, 2019b (19)	1. MMSE (19 to 24); 2. ADL scale; 3. Other criteria according to the modified Petersen's diagnostic standard on MCI (61); 4. Aged ≥ 65 years old
Lee, 2016 (18)	MMSE (20 to 23); 2. Aged ≥ 65 years old
Blasko, 2012 (35)	NR (mean baseline MMSE in the MCI patients' group was 27.0 ± 1.8 , ranging between 23-30)

De Jager, 2012 (53)	1.MMSE ($\geq 24/30$); 2. CAMDEX; 3. TICS-M > 29 but category fluency < 19 or TICS-M word recall $\leq 10/20$; 4. Aged ≥ 70 years old
Schroecksnadel, 2006 (51, 54)	1. MMSE (mean MMSE in the MCI patients' group was 28.1 ± 2.3).
Lehmann, 2003 (32)	1. MMSE (24 to 30); 2. Mild-to-moderate elevation of the serum homocysteine level (> 13.5 nmol/l)