Supplementary Table 6. Demographic and characteristics of MCI participants in the included studies

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Study** | **n/N****(included in analysis)** | **Age (y)****All MCI participants****or****converters (non-converters)** | **Gender** **M (%)**  | **MMSE score****converters (non-converters)** | **APOE Ɛ4 carrier (%)** | **MCI diagnostic criteria** | **Sampling (consecutive or random)** | **Sources of recruitment****(setting)** |
| **Anchisi 2005****(Italy)** | 48/67 | 71±3.9 (65±9.0) | 25 (52) | 26.6±1.7(28.4±1.1)  | Not reported | Petersen2001 | Yes | 4 outpatient University clinics |
| **Arbizu 2013\*****(Spain)** | 121/121 | 77 Range 65-88 | 81 (67) | 28 (27)Range 24-29.5All MCI | 24/36 MCI-c (67) 37/85 MCI-s (43) | Petersen 2004 | No | ADNI cohort (multicentre) |
| **Arnaiz 2001****(Sweden)** | 20/20 | 65±8.3 (60±8.4) | 12 (60) | 26.7±1.8(27.2±2.9) | Not reported | Global Deterioration Scale | Yes | Geriatric University clinic |
| **Berent 1999****(USA)** | 20/20 | 70±5.5 | 13 (65) | 26.0±1.9All MCI | Not reported | AAMIcriteria | No | Cognitive disorders University clinic |
| **Bruck 2013****(Finland)** | 22/29 | 72±7.2(71±4.9) | 18 (62)  | 26.2±1.5(27.9±1.3) | Not reported | Petersen 2004 | No | Cognitive disorders University clinic  |
| **Cerami 2015** | 38/45 | 70±5.7 | 19 (42) | 26.7±1.9All MCI | Not reported | Petersen 2009 Albert 2011 | Not reported | San Raffaele Scientific Institute |
| **Chetelat 2003****(France)** | 17/19 | 73±5.1 (67.8±7.0) | 8 (45) | 26.3±1.0 (27.8±1.2) | Not reported | Petersen2001 | Notreported | Not reported |
| **Choo 2013****(Sweden)** | 77/83 | 63±8.2(59±7.5) | 34 (44) | 26.6±2.6 (28.5±1.6) | 19/26 MCI-c (72) 23/51 MCI-s (56) | Petersen 1999 | Yes | University Geriatric Medicine Department |
| **Clerici 2009****(Italy)** | 26/30 | 74±6.9 | 10 (33.3) | 26.2±1.7 | Not reported | Petersen 2004 & CDR=0.5 criteria | No | University Centre for Research and Treatment  |
| **Drzezga 2005****(Germany)** | 30/30 | 75±4.7 (68±2.0) | 14 (46.7) | 25.9±2.1 (27.6±1.5) | 17 (57)All MCI | Petersen 1999 & CDR=0.5 criteria | Yes | Research unit |
| **Dukart 2016\*****(Switzerland)** | 164/164 | 73±7.8 | 102 (62) | 27±1.7(28.1±1.6) | Not reported | Not reported | Yes | ADNI cohort (multicentre) |
| **Fellgiebel 2007****(Germany)** | 16/16 | 69.5±7.9 (68.8±10.0) | 9 (56.2) | 24.3±1.5 (27.3±1.8) | Not reported | Petersen1999 | Not reported | University memory clinic |
| **Galluzzi 2010****(Italy)** | 38/90 | 72.0±7.1 | 37 (41.1) | 26.1±1.8All MCI | Not reported  | Petersen1999 | No | Outpatient memory clinic |
| **Gomar 2014\*****(USA)** | 162/162 | 75±7.3 Baseline sample N=318 | 199 (62)Baseline sample N=318 | 27±1.7Baseline sample N=318 | 101/150 (67) MCI-c 74/168 (44) MCI-s Baseline sample N=318 | Petersen 2010 | No | ADNI cohort (multicentre) |
| **Grimmer 2016****(Germany)** | 28/28 | 62±7.3 (range 50-78) | 14 (50) | Not reported | Not reported | Winbald 2014 | No | Cognitive disorders University centre |
| **Hatashita 2013****(Japan)** | 68/68 | Range 50-89 | Not reported | 26.5±1.5 (27.3±1.6) | 14/30 (47) MCI-c14/38 (37) MCI-s | Albert 2011 | Not reported | Memory clinic |
| **Herholz 2011\*****(UK)** | 94/94 | 75.0±7.6 | 66 (70.2) | 26.71±1.6All MCI | Not reported | Petersen 2010 & CDR=0.5 | No | ADNI cohort (multicentre)  |
| **Iaccarino 2017****(Italy)** | 30/30 | 63.6±7.8All MCI | 10 (32) | 27.6±1.6 All MCI | 20/30 (67) | Petersen 2014 | No | Memory clinic  |
| **Ito 2015****(Japan)** | 88/114 | 71±6.6 | Not reported | 25.6±1.7 (26.9±2.0) | Not reported | Global Deterioration Scale | Not reported | Memory clinics  |
| **Landau 2010\*****(USA)** | 85/85 | 78±7.5 (78±7.4) | 56 (65.9) | 26.4±1.7 (27.3±1.6) | 25/85 (29)All MCI | Petersen 2010 & CDR=0.5 | No | ADNI cohort (multicentre) |
| **Lange 2016\*****(Germany)** | Original sample 108/108 Validation sample 241/241  | Original sample75±6.4 (74±7.7)Validation sample 74±6.5 (70±7.2) | Original sample73 (67%)Validation sample102 (42%)  | Original sample27.1±1.4 (27.7±1.6)Validation sample 27.2±1.7 (28.2±1.6) | Not reported | Not reported | No | ADNI cohort (multicentre) |
| **Mosconi 2004****(Italy)** | 37/37 | 71.5±4.0 (66.0±8.0) | 17 (46) | 26.7±1.3 (28.3±1.4) | 16/37 (43)All MCI | Petersen 2001 | Not reported | Not reported |
| **Nobili 2008****(Italy)** | 33/36 | 77±4.8 (75±5.4) | 13 (39) | 69.0±4.0 (63.0±8.0) | 4/8 (50) MCI-c5/14 MCI-sAvailable only for 22 MCI | Petersen 2004 | Not reported | Outpatients |
| **Ossenkoppele 2012****(Netherlands)** | 12/15 | 67±7.0 | 9 (75) | 75.0±7.6 | 8/12 (67) | Petersen1999 | No | Not reported |
| **Ossenkoppele 2012a****(Netherlands)** | 12/30 | 64.0±9.0 | 23 (30) | 75.0±7.6 | Not reported | Petersen 2001 | Not reported | Outpatient University memory clinic |
| **Pagani 2017** | 122/122 | 75.2 ± 5.4 (71.9± 6.4) | 46 (38) | 26.0 ± 1.0 (26.8 ±1.5) | Not reported | Petersen 2009 | No | Memory clinic |
| **Pardo 2010****(USA)** | 19/19 | Mean 80Range 54-83 | Not reported | Not reported | Not reported | Petersen1999 | Not reported | Geriatric, Research, Education and Medical Center |
| **Perani 2014****(Italy)** | 28/28  | 71±5.7 | 16 (57) | Range 25-28 | Not reported | Petersen 2009 | No | Neurology Cognitive Disorder Centre |
| **Perani 2016****(Italy)** | 28/30 | 69±5.5(68±7.6)Baseline sample N=30 | 15 (50)Baseline sample N=30 | 26±1.8 (26±2.5)Baseline sample (N=30) | Not reported | Petersen 2009 | No | Memory clinics |
| **Prestia 2013\*****(USA/Italy)** | ADNI57/57TOMC36/36  | ADNI 75±8 Range 55-89TOMC 72±8 Range 51-85 | ADNI34 (60)TOMC15 (42)  | ADNI 28±2.0 (27±2.0)  TOMC26±2.0 (26±2.0)  | Not reported | Petersen 1999 | No | ADNI cohort (multicentre) |
| **Prestia 2015****(Italy)** | 73/73 | 68±8.9(65±9.4)Range 51-84 | 32 (44) | ≥24 | 15/29 (58) MCI-c21/44 (51) MCI-s | Petersen 1999 | No | Multicentre |
| **Schmand****2012\*****(Netherland)** | 89/89 | 74±7.4(74±7.6)Baseline sample N=175 | 114 (65)Baseline sample N=175 | 26.6±1.8(27.2±1.7)Baseline sample N=175 | Not reported | Petersen 2010 & CDR=0.5 | No | ADNI cohort (multicentre) |
| **Shaffer 2013\*****(USA)** | 97/97 | 75±7.2(75±7.2) | 67 (69) | 26.6±1.7 (27.5±1.6) | 26/43 (60) MCI-c27/54 (50) MCI-s | Not reported | No | ADNI cohort (multicentre) |
| **Toussaint 2012\*****(France/USA)** | 80/80 | 76±4.1Range 70-86All MCI | 56 (70) | 26.8±1.7 (27.5±1.8) | Not reported | Petersen 2010 | No | ADNI cohort (multicentre) |
| **Trzepacz 2014\*****(USA)** | 50/50 | 75±6.6(74±8.4)Range58-86 | 33 (66) | 26.2±2.8 (28.3±1.6) | 13/20 (65) MCI-c15/30 (50) MCI-s | Albert 2011 | No | ADNI cohort (multicentre) |
| **Young 2013\*****(UK)** | 143/143 | 69±5.5(68±7.6)  | 92 (64) | Not reported | Not reported | Petersen 2010 | No | ADNI cohort (multicentre) |

MCI, mild cognitive impairment; MMSE, Mini-Mental State Examination; APOE, **apolipoprotein E; ADNI,** Alzheimer’s Disease Neuroimaging Initiative; AAMI, age-associated memory impairment; CDR, Clinical Dementia rating scale; TOMC, Transitional Outpatient Memory Clinic

\*ADNI study, Alzheimer’s Disease Neuroimaging Initiative cohort