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 | Petersen  2001 | Yes | 4 outpatient University clinics |
| **Arbizu 2013\***  **(Spain)** | 121/121 | 77  Range  65-88 | 81 (67) | 28 (27)  Range 24-29.5  All 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±1.9  All MCI | Not reported | AAMI  criteria | 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±1.9  All 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 | Petersen  2001 | Not  reported | 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 | Petersen  1999 | Not reported | University memory clinic |
| **Galluzzi 2010**  **(Italy)** | 38/90 | 72.0±7.1 | 37 (41.1) | 26.1±1.8  All MCI | Not reported | Petersen  1999 | No | Outpatient memory clinic |
| **Gomar 2014\***  **(USA)** | 162/162 | 75±7.3  Baseline sample N=318 | 199 (62)  Baseline sample N=318 | 27±1.7  Baseline 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-c  14/38 (37) MCI-s | Albert 2011 | Not reported | Memory clinic |
| **Herholz 2011\***  **(UK)** | 94/94 | 75.0±7.6 | 66 (70.2) | 26.71±1.6  All MCI | Not reported | Petersen 2010 &  CDR=0.5 | No | ADNI cohort (multicentre) |
| **Iaccarino 2017**  **(Italy)** | 30/30 | 63.6±7.8  All 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 sample  75±6.4  (74±7.7)  Validation sample  74±6.5  (70±7.2) | Original sample  73 (67%)  Validation sample  102 (42%) | Original sample  27.1±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-c  5/14 MCI-s  Available 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) | Petersen  1999 | 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 80  Range 54-83 | Not reported | Not reported | Not reported | Petersen  1999 | 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)** | ADNI  57/57  TOMC  36/36 | ADNI  75±8  Range 55-89  TOMC  72±8  Range 51-85 | ADNI  34 (60)  TOMC  15 (42) | ADNI  28±2.0  (27±2.0)  TOMC  26±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-c  21/44 (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-c  27/54 (50) MCI-s | Not reported | No | ADNI cohort (multicentre) |
| **Toussaint 2012\***  **(France/USA)** | 80/80 | 76±4.1  Range 70-86  All 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)  Range  58-86 | 33 (66) | 26.2±2.8  (28.3±1.6) | 13/20 (65) MCI-c  15/30 (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