Supplementary 1. Full search strategy.

**Concept 1: Elderly people**
aging/ or aged/ or "aged, 80 and over"/ or middle aged/ or (((aged* or old*) and (people or person or adult or man or men or woman or women or patient*)) or (elder* or ageing or aging or senior or older)).m_titl. or (((aged* or old*) and (people or person or adult or man or men or woman or women or patient*)) or (elder* or ageing or aging or senior or older)).ab.

**Concept 2: MCI**
"Mild cognitive impairment"/ or Memory disorders/ or ("memory disorder*" or "memory impairment*" or "memory loss*" or prodromal dementia or "mild cognitive impairment*" or preclinical dementia or predementia or "memory deficit*" or MCI or "cognitive deficit*" or "cognitive decline*" or "cognitive impairment*" or early stage dementia or "mild memory problem*" or "mild memory difficult*" or questionable dementia or cognitive deterioration).m_titl. or ("memory disorder*" or "memory impairment*" or "memory loss*" or prodromal dementia or "mild cognitive impairment*" or preclinical dementia or predementia or "memory deficit*" or MCI or "cognitive deficit*" or "cognitive decline*" or "cognitive impairment*" or early stage dementia or "mild memory problem*" or "mild memory difficult*" or questionable dementia or cognitive deterioration).ab.

**Concept 3: BPSD**
“behavioral and psychological symptoms in dementia,” “behavioral and psychological*,” “BPSD,” “neuropsychiatric symptoms,” “hyperactive,” hyperactivity symptoms,” “psychosis,” psychotic,” “psychotic symptoms,” “affective symptoms,” “agitation,” “hallucination,” “irritability,” “disinhibition,” “elation,” “motor disturbance,” “depression,” “anxiety,” “apathy,” “sleep,” “appetite,” “delusion,” “delirium,” “hallucination,” “behavioural symptoms[MESH]” OR “Delusions [MESH],” OR “Hallucinations [MESH]” OR “Psychomotor Agitation [MESH]” “OR Aggression [MESH]” OR “Dysphoria OR Anxiety[MESH]” OR "euphoria [MESH]") OR “Apathy[MESH]” OR “Irritable mood [MESH]” OR “Sleep disorders [MESH]” OR “Feeding and eating disorders [MESH]” OR “Aberrant vocalization” OR “Elation/ Disinhibition Irritability/lability” OR “Motor disturbances”

**Concept 4: Prediction**
"disease progression"/ or "early diagnosis"/ or "predictive value of tests"/ or prognosis/ or "sensitivity and specificity"/ or "severity of illness index"/ or (predict* or prognos* or early detect* or conversion or convert* or progression or early diagnos* or progressor or predictive accuracy or progres* or (sensitivity and specificity)).m_titl. or (predict* or prognos* or early detect* or conversion or convert* or progression or early diagnos* or progressor or predictive accuracy or progres* or (sensitivity and specificity)).ab.

**Concept 5: Dementia**
“Dementia” “dementia tests,” “Alzheimer’s disease,” “Alzheimer’s dementia,” “Alzheimer*,” “vascular dementia,” “Lewy body dementia,” “Lewy Body disease,” “frontotemporal dementia,” “normal pressure hydrocephalus,” “mixed dementia,” “neurodegenerative disease,” “Huntington’s disease,” “Parkinson’s disease.”

**Concept 6: Longitudinal studies**
Cohort studies/ or follow up studies/ or prospective studies/ or longitudinal studies/ or retrospective studies/ or (cohort stud* or prospective stud* or follow up stud* or longitudinal stud* or retrospective stud* or prospective cohort stud* or community stud* or population-based stud*).m_titl. or (cohort
stud* or prospective stud* or follow up stud* or longitudinal stud* or retrospective stud* or prospective cohort stud* or community stud* or population-based stud*).ab.