Aim: To explore the effect of loneliness on cognitive function decline

Sample: CC75C study wave 3 respondents, and were followed by two additional two waves. In other words, those who participated in wave 3, wave 4 and wave 5respondents. Exclusion criteria: (1) did not report loneliness at wave 3, (2) at least had two waves data on cognition (MMSE), (3) did not report MMSE at wave 3

Samples (n=336)

W3: MMSE

W4: .

W5: MMSE

W3: MMSE

W4: MMSE

W5: MMSE

W3: MMSE

W4: MMSE

W5: died or alive with unknown cognitive status

Analytical plan: hidden markov model (multi state misclassification, right censoring)

State 1

Normal cognition

State 2

MCI

Death

State3 Moderate/severe cognition