Dear Colleagues,

Here are the details we discussed at the end of last week’s IALSA Multistate Modeling workshop.

**Paper #1. Replication of Marioni et al paper**

* *Studies:* H70, OCTOTwin, LASA, Rush MAP, Lothian 1921
* *States* : will be defined according to values of the MMSE and will be: Health /MCI/severe impairment and death. No impairment will be defined for MMSE 27-30, mild impairment for MMSE values of 23-26 and moderate to severe impairment for MMSE values between 0-22.
* In our discussions we referred to these states as healthy, MCI and dementia, but to be consistent with Marioni’s wording, I suggest we switch to No impairment, mild impairment and moderate to severe impairment.
* As in Marioni, we will allow back transitions between Healthy and MCI, but not between MCI and Dementia.
* *Covariates:*
* Age: Centered at study specific mean age. If problems, shift to minimal Age (Age 50)
* BirthCohort (Birth Year of 80 Year Old at Time 1): Birth Cohort-1900 (Omit in narrow age cohort models)
* Male: Males 1, Female 0
* Education: Categorized as tertiles within each study, Centered as middle tertile (-1, 0, 1); check with two dummy codes
* Social Class (Centred as Middle Class/Median Country Income/SES):
* OCTOTwin: Hi, Mid, Low
* British I-IV
* Occupational complexity
* Marioni also uses social engagement, BUT we do not have the information yet in all studies about how each one measured social engagement. So please run models with all previous covariates and populate table with the corresponding information so we can have a discussion on the call to talk about how to best include this variable.
* Social engagement (tertile; middle cat ref)

Annie will initiate writing, but we will all contribute.

**Paper #1b. Evaluation of MMSE-defined cognitive impairment in studies with clinical diagnosis**

OCTO-Twin, H70, Rush MAP, Lothian

**Paper #2: Extension of Paper #1 to Lifestyle Factors**

We will harmonize the following measures within each study.

Physical Activity (Sedentary/Low vs Mod/High

Social Engagement

Smoking (Smoking ever)

ApoE (44/34=1)

Alcohol (Heavy vs other)

Physical health- this is the sticky one. How are we going to consider it?

**General request:**

We kindly request you all that if you use the method learnt in the workshop for another paper , please cite the IALSA grant adding the statement copied below in your funding declaration.

“ The research was supported in part by the Integrative Analysis of Longitudinal Studies of Aging and Dementia (IALSA) research network (NIA P01AG043362).”

***TASKS TO DO:***

* Run models starting with age and building up from there adding covariates one at a time until social engagement
* Populate table with information about social engagement . Please email if in doubt
* To add to the discussion in TC, is APOE available everywhere? Should we also add it to our models?
* Please complete doodle poll for TCs and dial in