

Title: Willingness to undergo a risky treatment to improve cognition among persons with cognitive impairment who received an amyloid PET scan

Authors: Eric Jutkowitz, Courtney Harold Van Houtven, Brenda L. Plassman, Vincent Mor

Journal: Alzheimer Disease & Associated Disorders

Software used for analyses: StataSE 14.2

Funding: This study was supported by a grant from National Institute on Aging (Grant # 1R01AG053934-01A1)

Syntax for: Data cleaning

```
gen include_v3=0
```

```
replace include_v3=1 if part_RESULTCATEGORY=="Complete" &
```

```
cpait_RESULTCATEGORY=="Complete"
```

```
//recode of variables in baseline CARE-IDEAS
```

```
label variable cpait_MaritalStatus_v2 "Patient reported marital status"
```

```
label define cpait_MaritalStatus_v2 1 "Married/living together" 2 "Seperated/divorced" 3 "Widowed" 4
```

```
"Never married" 5 "Dont know" 6 "Refused", modify
```

```
label values cpait_MaritalStatus_v2 cpait_MaritalStatus_v2
```

```
label variable REC_Part_RACE_v2 "care partner race"
```

```
label define REC_Part_RACE_v2 1 "White" 2 "African American" 3 "Other" 4 "dont know/refused",
```

```
modify
```

```
label values REC_Part_RACE_v2 REC_Part_RACE_v2
```

label variable REC_cpait_RACE_v2 "patient race"

label define REC_cpait_RACE_v2 1 "White" 2 "African American" 3 "Other" 4 "dont know/refused",
modify

label values REC_cpait_RACE_v2 REC_cpait_RACE_v2

label variable part_MaritalStatus_v2 "Care partners reported marital status"

label define cpait_MaritalStatus_v2 1 "Married/living together" 2 "Seperated/divorced" 3 "Widowed" 4
"Never married" 5 "Dont know" 6 "Refused", modify

label values part_MaritalStatus_v2 cpait_MaritalStatus_v2

label variable REC_Part_RACE_v2 "care partner race"

label define REC_Part_RACE_v2 1 "White" 2 "African American" 3 "Other" 4 "dont know/refused",
modify

label values REC_Part_RACE_v2 REC_Part_RACE_v2

label variable REC_part_RELAT_v2 "Patient reported relationship to care partner"

label define REC_part_RELAT_v2 1 "Spouse/significant other" 2 "Child" 3 "Other" 4 "Dont
know/refused", modify

label values REC_part_RELAT_v2 REC_part_RELAT_v2

//Table 1

ttest cpait_RiskDeath if include_v3==1, by(AF_AMYLOID_RESULT)

ttest REC_cpait_AGE if include_v3==1, by(AF_AMYLOID_RESULT)

ttest REC_cpait_TICS_total if include_v3==1, by(AF_AMYLOID_RESULT)

```

tab cpait_Gender2 AF_AMYLOID_RESULT if include_v3==1,m chi2
tab cpait_MaritalStatus_v2 AF_AMYLOID_RESULT if include_v3==1,m chi2
tab REC_cpait_EDU_4cat AF_AMYLOID_RESULT if include_v3==1,m chi2
tab REC_cpait_RACE_v2 AF_AMYLOID_RESULT if include_v3==1,m chi2

```

```

ttest part_RiskDeath if include_v3==1, by(AF_AMYLOID_RESULT)
ttest REC_part_AGE if include_v3==1, by(AF_AMYLOID_RESULT)
ttest REC_part_ECOG_avg if include_v3==1, by(AF_AMYLOID_RESULT)

```

```

tab part_Gender2 AF_AMYLOID_RESULT if include_v3==1,m chi2
tab part_MaritalStatus_v2 AF_AMYLOID_RESULT if include_v3==1,m chi2
tab REC_part_EDU_4cat AF_AMYLOID_RESULT if include_v3==1,m chi2
tab REC_Part_RACE_v2 AF_AMYLOID_RESULT if include_v3==1,m chi2
tab REC_part_RELAT_v2 AF_AMYLOID_RESULT if include_v3==1,m chi2
tab part_MostInvolved AF_AMYLOID_RESULT if include_v3==1,m chi2
tab part_DiscussCareDecisions AF_AMYLOID_RESULT if include_v3==1,m chi2

```

//Table 2

```

tpm cpait_RiskDeath ib2.AF_AMYLOID_RESULT REC_cpait_TICS_total REC_cpait_AGE ///
i.cpaid_Gender2 i.cpaid_MaritalStatus_v2 i.REC_cpait_EDU_4cat i.REC_cpait_RACE_v2
REC_part_ECOG_avg if include_v3==1 , first(logit) second(regress)
margins, dydx(*)

```

```

gen cpait_RiskDeath_binary=0 if cpait_RiskDeath==0

replace cpait_RiskDeath_binary=1 if cpait_RiskDeath>0 & cpait_RiskDeath!=.

logit cpait_RiskDeath ib2.AF_AMYLOID_RESULT REC_cpait_TICS_total REC_cpait_AGE ///
i.cpaid_Gender2 i.cpaid_MaritalStatus_v2 i.REC_cpait_EDU_4cat i.REC_cpait_RACE_v2
REC_part_ECOG_avg if include_v3==1

margins, dydx(*)

tpm part_RiskDeath ib2.AF_AMYLOID_RESULT REC_cpait_TICS_total REC_part_ECOG_avg ///
REC_part_AGE i.part_Gender2 i.REC_part_EDU_4cat i.REC_Part_RACE_v2
i.REC_part_RELAT_v2 ///
i.part_MostInvolved i.part_DiscussCareDecisions if include_v3==1 , first(logit) second(regress)

margins, dydx(*)

```

```

gen part_RiskDeath_binary=0 if part_RiskDeath==0

replace part_RiskDeath_binary=1 if part_RiskDeath>0 & part_RiskDeath!=.

logit part_RiskDeath_binary ib2.AF_AMYLOID_RESULT REC_cpait_TICS_total
REC_part_ECOG_avg ///
REC_part_AGE i.part_Gender2 i.REC_part_EDU_4cat i.REC_Part_RACE_v2
i.REC_part_RELAT_v2 ///
i.part_MostInvolved i.part_DiscussCareDecisions if include_v3==1

margins, dydx(*)

```

```

gen part_RiskDeath_binary=0 if part_RiskDeath==0

```

```

replace part_RiskDeath_binary=1 if part_RiskDeath>0 & part_RiskDeath!=.
logit part_RiskDeath_binary ib2.AF_AMYLOID_RESULT REC_cpait_TICS_total
REC_part_ECOG_avg ///
REC_part_AGE i.part_Gender2 i.REC_part_EDU_4cat i.REC_Part_RACE_v2
i.REC_part_RELAT_v2 ///
i.part_MostInvolved i.part_DiscussCareDecisions if include_v3==1
margins, dydx(*)

```

//Figure 2

```

tab cpait_RiskDeath if include_v3==1
histogram cpait_RiskDeath if include_v3==1, percent
tab part_RiskDeath if include_v3==1
histogram part_RiskDeath if include_v3==1, percent
tab diff_riskdeath if include_v3==1
histogram diff_riskdeath if include_v3==1, percent

```

//Appendix

```

gen include_v4=include_v3
tab include_v4
replace include_v4=. if include_v3==0
tab include_v4
replace include_v4=2 if include_v3>1 & include_v3!=.
tab include_v4 include_v2

```

replace cpait_RiskDeath=. if cpait_RiskDeath>101

replace part_RiskDeath=. if part_RiskDeath>101

ttest cpait_RiskDeath if include_v4!=., by(include_v4)

ttest REC_cpait_AGE if include_v4!=., by(include_v4)

ttest REC_cpait_TICS_total if include_v4!=., by(include_v4)

ttest REC_cpait_ECOG_avg if include_v4!=., by(include_v4)

tab cpait_Gender2 include_v4 if include_v4!=.,m chi2

tab cpait_MaritalStatus_v2 include_v4 if include_v4!=.,m chi2

tab REC_cpait_EDU_4cat include_v4 if include_v4!=. & REC_cpait_EDU_4cat!=5,m chi2

tab REC_cpait_RACE_v2 include_v4 if include_v4!=. & REC_cpait_RACE_v2!=4,m chi2

ttest part_RiskDeath if include_v4!=., by(include_v4)

ttest REC_part_AGE if include_v4!=., by(include_v4)

ttest REC_part_ECOG_avg if include_v4!=., by(include_v4)

tab part_Gender2 include_v4 if include_v4!=.,m chi2

tab part_MaritalStatus_v2 include_v4 if include_v4!=. & (part_MaritalStatus_v2!=5 &
part_MaritalStatus_v2!=6),m chi2

tab REC_part_EDU_4cat include_v4 if include_v4!=. & REC_part_EDU_4cat!=5,m chi2

tab REC_Part_RACE_v2 include_v4 if include_v4!=. & REC_Part_RACE_v2!=4,m chi2 nolab

tab REC_part_RELAT_v2 include_v4 if include_v4!=.,m chi2

tab part_MostInvolved include_v4 if include_v4!=. & part_MostInvolved!=98,m chi2 nolab

tab part_DiscussCareDecisions include_v4 if include_v4!=. & part_DiscussCareDecisions!=98,m chi2

nolab