\* New dummy age variables for some certain intervals of age

63 64

```
exercise4 - Printed on 11/2/2016 10:12:17 PM
      gen age25_35 = (25 <= age) & (age < 35)
 65
      gen age35_45 = (35 <= age) \& (age < 45)
 66
      gen age45_55 = (45 <= age) & (age < 55)
 67
 68
      gen age55_65 = (55 <= age) \& (age < 65)
 69
 70
       * New dummy income variables for some certain intervals of age
 71
      gen inc2400 = hhninc<2400
 72
      gen inc2400_3200 = 2400<=hhninc & hhninc<3200
 73
      gen inc3200 4300 = 3200<=hhninc & hhninc<4300
      gen inc4300 = 4300<=hhninc
 74
 75
 76
 77
      by female, sort: tabulate public, sum(docvis)
 78
      by female, sort: tab addon, sum(docvis)
 79
      by female, sort: tab handdum, sum(docvis)
 80
      by female, sort: tab self, sum(docvis)
 81
      by female, sort: tab married, sum(docvis)
 82
      by female, sort: tab hhkids, sum(docvis)
 83
      by female, sort: tab age25_35, sum(docvis)
 84
      by female, sort: tab age35_45, sum(docvis)
 85
      by female, sort: tab age45_55, sum(docvis)
 86
      by female, sort: tab age55_65, sum(docvis)
      by female, sort: tab inc2400, sum(docvis)
 87
      by female, sort: tab inc2400_3200, sum(docvis)
 88
 89
      by female, sort: tab inc2400_3200, sum(docvis)
 90
      by female, sort: tab inc3200_4300, sum(docvis)
 91
      by female, sort: tab inc4300, sum(docvis)
 92
 93
      by female, sort: tabulate public, sum(hospvis)
 94
      by female, sort: tab addon, sum(hospvis)
 95
      by female, sort: tab handdum, sum(hospvis)
 96
      by female, sort: tab self, sum(hospvis)
 97
      by female, sort: tab married, sum(hospvis)
 98
      by female, sort: tab hhkids, sum(hospvis)
 99
      by female, sort: tab age25_35, sum(hospvis)
100
      by female, sort: tab age35_45, sum(hospvis)
101
      by female, sort: tab age45_55, sum(hospvis)
102
      by female, sort: tab age55_65, sum(hospvis)
103
      by female, sort: tab inc2400, sum(hospvis)
104
      by female, sort: tab inc2400_3200, sum(hospvis)
105
      by female, sort: tab inc2400_3200, sum(hospvis)
106
      by female, sort: tab inc3200_4300, sum(hospvis)
107
      by female, sort: tab inc4300, sum(hospvis)
108
109
       * (D) estimate a pooled Poisson regression model for Doctor visits by gender
110
      poisson docvis i.year c.age c.age#c.age hsat handdum handper married educ hhninc hhkids self
       beamt bluec working public addon if !female
111
       estimates store poisson1male
112
      outreg2 using tableIVa_male, title(Pooled Poisson regression male - no robust) word replace
113
114
      poisson docvis i.year c.age c.age#c.age hsat handdum handper married educ hhninc hhkids self
       beamt bluec working public addon if female
115
       estimates store poisson1female
116
      outreg2 using tableIVa_female, title(Pooled Poisson regression for female- no robust) word
      replace
117
118
       * (E) Find AME for the regression above
119
       estimates restore poisson1male
120
      margins, dydx(*) post
121
      outreg2 using tableIVaAME_male, title(Marginal Effects for male) word replace
122
123
       estimates restore poisson1female
124
      margins, dydx(*) post
125
      outreg2 using tableIVaAME_female, title(Marginal Effects for female) word replace
126
127
       * (F) Re-estimate using the heteroskedasticity-robust standard errors.
128
      poisson docvis i.year c.age c.age#c.age hsat handdum handper married educ hhninc hhkids self
        beamt bluec working public addon if !female,vce(robust)
129
       estimates store poisson2male
130
      outreg2 using tableIVb_male, title(Pooled Poisson regression for male - with robust) word
```

CYCICIS	e4 - Filliced On 11/2/2010 10:12:17 FM
	replace
131	
132	poisson docvis i.year c.age c.age#c.age hsat handdum handper married educ hhninc hhkids self beamt bluec working public addon if !female,vce(robust)
133	estimates store poisson2female
134	outreg2 using tableIVb_female, title(Pooled Poisson regression for female- with robust) word replace
135	
136	* (G) Esimate the AMEs
137	estimates restore poisson2male
138	margins, dydx(*) post
139	outreg2 using tableIVbAME_male, title(Marginal Effects for male with robust) word replace
140	
141	estimates restore poisson2female
142	margins, dydx(*) post
143	outreg2 using tableIVbAME_female, title(Marginal Effects for female with robust) word replace
144	
145	log close

146