Appendix Table 1. Extended Specification for Multiple APA Treatment Effects

	Males	Females
Treatment Group x Birth Cohort: APA treatment		
AC1 (eligibility age 60.5)		
AC1 x TG x (Age 60)	-0.125 [0.080]	0.062 [0.054]
x (Age 61)	-0.192*** [0.072]	0.078 [0.060]
x (Age 62)	-0.147 [0.109]	0.061 [0.121]
x (Age 63)	0.077 [0.078]	0.049 [0.065]
x (Age 64)	0.032 [0.073]	0.016 [0.061]
AC2 (eligibility age 61)		
AC2 x TG x (Age 60)	-0.005 [0.082]	0.040 [0.078]
x (Age 61)	0.186 [0.117]	-0.120 [0.156]
x (Age 62)	-0.023 [0.066]	0.093 [0.060]
x (Age 63)	0.156** [0.072]	0.019 [0.061]
x (Age 64)	-0.009 [0.093]	0.158* [0.088]
AC3 (eligibility age 61.5)		
AC3x TG x (Age 60)	-0.002 [0.083]	0.073 [0.062]
x (Age 61)	-0.117 [0.076]	0.174*** [0.062]
x (Age 62)	-0.239* [0.145]	0.059 [0.089]
x (Age 63)	0.134 [0.064]	0.044 [0.056]
x (Age 64)	-0.077 [0.055]	0.106** [0.048]
AC4 (eligibility age 62)		
AC4 x TG x (Age 60)	-0.041 [0.081]	0.128** [0.054]
x (Age 61)	0.025 [0.091]	0.106 [0.079]
x (Age 62)	-0.047 [0.059]	0.130*** [0.042]
x (Age 63)	0.134** [0.054]	0.004 [0.049]
x (Age 64)	0.236** [0.117]	0.102 [0.091]
AC5 (eligibility age 62.5)		
AC5 x TG x (Age 60)	-0.162* [0.071]	0.072* [0.043]
x (Age 61)	-0.045 [0.062]	0.096* [0.054]
x (Age 62)	-0.142 [0.081]	0.105 [0.072]
x (Age 63)	0.170*** [0.063]	0.033 [0.050]
x (Age 64)	0.116 [0.123]	0.117 [0.093]
AC6 (eligibility age 63)		
AC6 x TG x (Age 60)	0.054 [0.068]	0.089* [0.047]
x (Age 61)	-0.129 [0.120]	0.113 [0.086]
x (Age 62)	0.060 [0.061]	0.033 [0.058]
x (Age 63)	0.140 [0.113]	0.051 [0.097]
x (Age 64)	0.059 [0.060]	0.111** [0.054]
AC7 (eligibility age 63.5)		
AC7x TG x (Age 60)	0.039 [0.70]	0.260*** [0.063]

x (Age 61)	0.262 [0.101]	0.174** [0.087]
x (Age 62)	-0.081 [0.065]	0.256*** [0.61]
x (Age 63)	0.164 [0.105]	0.204*** [0.080]
x (Age 64)	0.033 [0.054]	0.081* [0.045]
AC8 (eligibility age 64)		
AC8x TG x (Age 60)	0.107 [0.110]	0.154* [0.091]
x (Age 61)	0.023 [0.063]	0.188*** [0.051]
x (Age 62)	0.156 [0.083]	0.297*** [0.073]
x (Age 63)	0.068 [0.045]	0.114*** [0.039]
x (Age 64)	0.053 [0.163]	0.072 [0.128]
AC9 (eligibility age 64.5)		
AC9x TG x (Age 60)	0.085 [0.098]	0.328*** [0.086]
x (Age 61)	0.036 [0.059]	0.161*** [0.049]
x (Age 62)	-0.210** [0.013]	0.144** [0.068]
AC10 (eligibility age 65)		
AC10x TG x (Age 60)	-0.054 [0.063]	0.207*** [0.056]
x (Age 61)	0.078 [0.161]	0.184 [0.126]
Observations	5600	5838
Adjusted R^2	0.548	0.345
Total Estimated Cohort Impact[3]		
AC1 (eligibility age 60.5)	-0.356* [0.187]	0.263* [0.154]
AC2 (eligibility age 61)	0.304 [0.195]	-0.001 [0.173]
AC3 (eligibility age 61.5)	-0.303* [0.176]	0.455*** [0.152]
AC4 (eligibility age 62)	0.306 [0.187]	0.473*** [0.159]
AC5 (eligibility age 62.5)	-0.064 [0.186]	0.422 [0.153]
AC1 (eligibility age 63)	0.184 [0.187]	0.395** [0.164]
AC2 (eligibility age 63.5)	0.418** [0.183]	0.977*** [0.154]
AC3 (eligibility age 64)	0.407* [0.228]	0.825*** [0.187]
AC4 (eligibility age 64.5)	-0.084 [0.141]	0.633 [0.121]
AC5 (eligibility age 65)	-0.018 [0.087]	0.369*** [0.075]
Estimated Average Response to Homogenous Treatment[4]		
Treatment (AC1-AC5)	-0.022 [0.062]	0.206*** [0.054]

Notes:

1. All regressions include controls for age, educational attainment, state of residence, household size and marital status.

2. Bootstraped standard errors, based on 999 replications, are in square brackets [].

significant at 10%

4. The total cohort impact is the sum of the treatment effects across the age categories for a cohort.

5. Estimate of Mean Impact Across Cohorts in Response to 1 Year Increase in APA.

Appendix Table 2 : Singles Regression Adjusted Treatment Effects by Cohort and Age[1]

	Males		Females		Diff-in-Diff[2]	
AC1 (eligibility age 60.5 to 61)						
AC1 x (Age 60)	-0.120	[0.167]	-0.005	[0.067]	0.021	[0.075]
AC1 x (Age 61)	-0.357**	[0.159]	-0.143	[0.121]	-0.050	[0.088]
AC1 x (Age 62)	0.089	[0.144]	0.128*	[0.076]	0.187**	[0.094]
AC1 x (Age 63)	0.208	[0.130]	-0.025	[0.064]	0.069	[0.064]
AC1 x (Age 64)	-0.185	[0.126]	0.141*	[0.075]	0.172*	[0.095]
AC2 (eligibility age 61.5 to 62)						
AC2 x (Age 60)	-0.080	[0.139]	0.084	[0.084]	0.032	[0.093]
AC2 x (Age 61)	-0.321*	[0.162]	0.119	[0.097]	0.134	[0.098]
AC2 x (Age 62)	0.088	[0.108]	0.191**	[0.079]	0.177**	[0.086]
AC2 x (Age 63)	0.236***	[0.082]	0.004	[0.066]	0.018	[0.081]
AC2 x (Age 64)	-0.025	[0.112]	0.192***	[0.062]	0.157**	[0.075]
AC3 (eligibility age 62.5 to 63)						
AC3 x (Age 60)	-0.022	[0.141]	0.027	[0.065]	0.032	[0.080]
AC3 x (Age 61)	-0.233	[0.149]	0.081	[0.102]	0.142*	[0.083]
AC3 x (Age 62)	-0.041	[0.124]	0.048	[0.072]	0.085	[0.075]
AC3 x (Age 63)	0.155	[0.104]	0.118	[0.076]	0.188**	[0.074]
AC3 x (Age 64)	-0.092	[0.122]	0.226***	[0.081]	0.242***	[0.079]
AC4 (eligibility age 63.5 to 64)						
AC4 x (Age 60)	0.040	[0.161]	0.271***	[0.083]	0.232***	[0.075]
AC4 x (Age 61)	-0.073	[0.131]	0.342***	[0.103]	0.361***	[0.084]
AC4 x (Age 62)	0.183	[0.129]	0.306***	[0.104]	0.310***	[0.099]
AC4 x (Age 63)	0.047	[0.078]	0.093	[0.058]	0.117*	[0.066]
AC4 x (Age 64)	-0.057	[0.095]	0.132***	[0.049]	0.104	[0.067]
AC5 (eligibility age 64.5 to 65)						
AC5 x (Age 60)	-0.069	[0.144]	0.143**	[0.071]	0.139*	[0.081]
AC5 x (Age 61)	-0.183	[0.130]	0.140*	[0.082]	0.198***	[0.069]
AC5 x (Age 62)	0.031	[0.138]	0.096	[0.104]	0.114	[0.118]
Observations	1087		1726		2813	
Adjusted R^2	0.425		0.377		0.399	
Total Estimated Cohort Impact[5]						
AC1	-0.366	[0.351]	0.096	[0.215]	0.399	[0.285]
AC2	-0.103	[0.328]	0.591***	[0.219]	0.518*	[0.313]
AC3	-0.233	[0.288]	0.499**	[0.195]	0.689***	[0.251]
AC4	0.139	[0.282]	1.144***	[0.215]	1.124	[0.272]
AC5	-0.221	[0.269]	0.380**	[0.152]	0.452**	[0.194]
Estimated Average Response to Homogenous Treatment[6]						
Treatment (AC1-AC5)	-0.100	[0.118]	0.184**	[0.078]	0.252***	[0.084]

1. All regressions include controls for age, educational attainment, state of residence, household size and marital status.

2. Difference in difference specification includes cohort dummies. Coefficients reported are the interaction between female, cohort dummies and age dummies.

3. Bootstraped standard errors, based on 999 replications, are in square brackets [].

4. *** significant at 1%, ** significant at 5%; * significant at 10%

5. The total cohort impact is the sum of the treatment effects across the age categories for a cohort.

6. Estimate of Mean Impact Across Cohorts in Response to 1 Year Increase in APA.

Appendix Table 3: Disability Insurance

Regression Adjusted Diff-in-Diff Treatment Effects by Cohort and Age

	Full Sample		Singles	
AC1 (eligibility age 60.5 to 61)				
AC1 x (Age 60)	0.12***	[0.036]	0.011	[0.079]
AC1 x (Age 61)	0.078**	[0.035]	-0.082	[0.067]
AC1 x (Age 62)	0.036	[0.029]	-0.136**	[0.067]
AC1 x (Age 63)	-0.007	[0.028]	-0.106	[0.071]
AC1 x (Age 64)	-0.035	[0.026]	-0.147**	[0.068]
AC2 (eligibility age 61.5 to 62)				
AC2 x (Age 60)	0.169***	[0.039]	0.227**	[0.104]
AC2 x (Age 61)	0.141***	[0.040]	0.140*	[0.080]
AC2 x (Age 62)	0.048*	[0.029]	-0.060	[0.068]
AC2 x (Age 63)	0.023	[0.025]	-0.001	[0.063]
AC2 x (Age 64)	0.006	[0.024]	-0.066	[0.069]
AC3 (eligibility age 62.5 to 63)				
AC3 x (Age 60)	0.243***	[0.028]	0.389***	[0.078]
AC3 x (Age 61)	0.279***	[0.040]	0.360***	[0.079]
AC3 x (Age 62)	0.192***	[0.029]	0.205***	[0.078]
AC3 x (Age 63)	0.074**	[0.030]	0.091	[0.074]
AC3 x (Age 64)	0.035	[0.025]	0.014	[0.056]
AC4 (eligibility age 63.5 to 64)				
AC4 x (Age 60)	0.19***	[0.038]	0.262***	[0.090]
AC4 x (Age 61)	0.204***	[0.041]	0.104	[0.078]
AC4 x (Age 62)	0.174***	[0.039]	0.191**	[0.093]
AC4 x (Age 63)	0.203***	[0.034]	0.235***	[0.072]
AC4 x (Age 64)	0.007	[0.029]	-0.066	[0.056]
AC5 (eligibility age 64.5 to 65)				
AC5 x (Age 60)	0.151***	[0.029]	0.236***	[0.070]
AC5 x (Age 61)	0.216***	[0.031]	0.235***	[0.062]
AC5 x (Age 62)	0.25***	[0.033]	0.317**	[0.124]
AC1 (eligibility age 60.5 to 61)	-0.292***	[0.016]	0.099	[0.033]
AC2 (eligibility age 61.5 to 62)	-0.019	[0.023]	0.037	[0.061]
AC3 (eligibility age 62.5 to 63)	-0.027	[0.022]	0.024	[0.056]
AC4 (eligibility age 63.5 to 64)	-0.047	[0.021]	0.101**	[0.048]
AC5 (eligibility age 64.5 to 65)	-0.005	[0.024]	0.116**	[0.049]
Observations	11,438		2813	
Adjusted R^2	0.258		0.342	
Total Estimated Cohort Impact				
AC1	0.199*	[0.109]	-0.461	[0.320]
AC2	0.390***	[0.115]	0.239	[0.304]
AC3	0.827***	[0.108]	1.06***	[0.248]
AC4	0.786***	[0.092]	0.727**	[0.286]
AC5	0.629***	[0.098]	0.788***	[0.198]
Estimated Average Response to Homogenous Treatment				
Treatment (AC1-AC5)	0.198***	[0.038]	0.07	[0.097]

1. All regressions include controls for age, educational attainment, state of residence, household size and marital status.