

**APPENDIX FOR “THE FDA AND ABCS: UNINTENDED CONSEQUENCES OF ANTIDEPRESSANT WARNINGS ON HUMAN CAPITAL”**

**Appendix table A1: Peer-reviewed studies of declines in pediatric antidepressant use in the United States**

<b>Citation</b>	<b>Population/Data</b>	<b>Results</b>
Nemeroff et al. 2007	Verispan data; represents ~ ½ of retail prescriptions in US (ages 0-17)	5% decline in pediatric antidepressant volume in Q1 2004; Additional 11% decline in Q2 2004; No further change through March 2005
Gibbons et al. 2007	IMS pharmacy data; aggregated to national level (ages 0-14)	22% decline in youth antidepressant volume from 2003 to 2005; 30% decline in new youth antidepressant prescription volume from 2003 to 2005
Kurian et al. 2007	Tennessee Medicaid pharmacy data; (ages 2-17)	33% decline in new antidepressant use (i.e. individual fills any antidepressant prescription in month)
Busch et al. 2011	Medical Expenditure Panel Survey; nationally representative survey data (ages 5-21)	26% decline in twelve-month prevalence rates of antidepressant use from 2002/3 to 2005/6 (i.e., individual fills any antidepressant prescription in year)
Libby et al. 2009	PharMetrics Patient-Centric Database; eighty-five managed care plans (ages 5-18)	After accounting for prescribing trends, 58 % decline in antidepressant use among individuals newly diagnosed with depression (within 30 days post diagnosis.)
Busch et al., 2010	Marketscan data; privately insured (ages 5-17)	19% decline in antidepressant use among individuals newly diagnosed with depression (within 30 days post diagnosis.)
Valluri et al 2010	i3 Innovus database; commercial insurance enrollees (ages 2-17)	17% decline in antidepressant use among individuals newly diagnosed with depression (within 180 days post diagnosis.)

The models that generated the coefficients in the following tables, A2-A7 are described fully in the paper text.

**Appendix Table A2: Regression Results for Binge Drinking**

	Any Binge Drinking, Past 30 days		
	All	Females	Males
	Coefficient (SE)	Coefficient (SE)	Coefficient (SE)
Post-FDA*Depressed	-0.062 (0.112)	0.038 (0.105)	-0.262 (0.205)
Marginal Effect (SE)	-0.014 (0.025)	0.009 (0.023)	-0.055 (0.043)
Depressed	0.272*** (0.045)	0.331*** (0.039)	0.184** (0.087)
Marginal Effect (SE)	0.058	0.066	0.046
Post-FDA	0.079** (0.038)	0.110** (0.049)	0.051 (0.047)
Marginal Effect (SE)	0.000	0.003	-0.003
Time	0.000 (0.003)	0.001 (0.003)	-0.001 (0.004)
Time*Post-FDA	-0.005 (0.003)	-0.007 (0.004)	-0.004 (0.004)
Time*Depressed	0.005 (0.006)	0.000 (0.005)	0.014 (0.011)
Female	-0.070 (0.011)		
Quarter=2	-0.048 (0.014)	-0.024 (0.021)	-0.071 (0.016)
Quarter=3	0.018 (0.013)	0.052 (0.023)	-0.016 (0.017)
Quarter=4	-0.065 (0.017)	-0.030 (0.022)	-0.100 (0.022)
Age	0.311 (0.005)	0.274 (0.007)	0.347 (0.007)
Black	-0.517 (0.027)	-0.508 (0.041)	-0.526 (0.035)
Native Am	0.135 (0.092)	0.103 (0.146)	0.157 (0.096)
Native HI/PI	-0.342 (0.132)	-0.510 (0.192)	-0.170 (0.168)
Asian	-0.568 (0.053)	-0.485 (0.070)	-0.647 (0.094)
Multiple	-0.135 (0.048)	-0.131 (0.063)	-0.136 (0.081)
Hispanic	-0.110 (0.026)	-0.111 (0.033)	-0.111 (0.040)
\$10k-\$20k	-0.031 (0.038)	-0.062 (0.052)	-0.002 (0.040)
\$20k-\$30k	-0.079 (0.046)	-0.044 (0.064)	-0.119 (0.059)
\$30k-\$40k	-0.059 (0.038)	-0.083 (0.048)	-0.041 (0.053)
\$40k-\$50k	-0.093 (0.039)	-0.053 (0.059)	-0.133 (0.047)
\$50k-\$75k	-0.087 (0.033)	-0.087 (0.049)	-0.091 (0.043)
>\$75k	-0.096 (0.036)	-0.096 (0.053)	-0.098 (0.041)
Constant	-2.293 (0.052)	-2.244 (0.064)	-2.409 (0.069)

**Appendix Table A3: Regression Results for Cigarette Use**

	Any Cigarette Use, Past 30 days		
	All	Females	Males
	Coefficient (SE)	Coefficient (SE)	Coefficient (SE)
Post-FDA*Depressed	0.190*** (0.056)	0.187*** (0.114)	0.164 (0.156)
Marginal Effect (SE)	0.0459*** (0.016)	0.050 (0.034)	0.035 (0.038)
Depressed	0.513 (0.029)	0.557*** (0.050)	0.409*** (0.054)
Marginal Effect (SE)	0.102	0.110	0.090
Post-FDA	0.044 (0.048)	0.090 (0.062)	0.002 (0.058)
Marginal Effect (SE)	-0.003	0.005	-0.011
Time	-0.002 (0.003)	-0.005 (0.004)	0.001 (0.003)
Time*Post-FDA	-0.006 (0.003)	-0.006 (0.004)	-0.005 (0.003)
Time*Depressed	-0.010 (0.003)	-0.011 (0.006)	-0.004 (0.008)
Female	0.020 (0.012)		
Quarter=2	-0.010 (0.019)	-0.017 (0.028)	-0.004 (0.023)
Quarter=3	0.005 (0.019)	0.011 (0.027)	-0.003 (0.021)
Quarter=4	-0.013 (0.023)	0.005 (0.029)	-0.032 (0.027)
Age	0.293 (0.003)	0.270 (0.006)	0.316 (0.007)
Black	-0.567 (0.026)	-0.641 (0.037)	-0.495 (0.035)
Native Am	0.221 (0.061)	0.163 (0.089)	0.281 (0.094)
Native HI/PI	-0.475 (0.136)	-0.451 (0.171)	-0.511 (0.202)
Asian	-0.686 (0.056)	-0.789 (0.089)	-0.597 (0.081)
Multiple	-0.074 (0.042)	-0.081 (0.051)	-0.068 (0.059)
Hispanic	-0.377 (0.025)	-0.429 (0.037)	-0.326 (0.034)
\$10k-\$20k	-0.103 (0.032)	-0.110 (0.048)	-0.097 (0.052)
\$20k-\$30k	-0.115 (0.034)	-0.065 (0.048)	-0.168 (0.048)
\$30k-\$40k	-0.198 (0.037)	-0.172 (0.042)	-0.226 (0.058)
\$40k-\$50k	-0.217 (0.027)	-0.205 (0.040)	-0.229 (0.044)
\$50k-\$75k	-0.368 (0.026)	-0.349 (0.049)	-0.389 (0.038)
>\$75k	-0.447 (0.030)	-0.436 (0.045)	-0.458 (0.052)
Constant	-1.918 (0.048)	-1.784 (0.080)	-2.033 (0.066)

**Appendix Table A4: Regression Results for Illicit Drug Use**

	Any Illicit Drug Use, Past 30 days		
	All	Females	Males
	Coefficient (SE)	Coefficient (SE)	Coefficient (SE)
Post-FDA*Depressed	0.186** (0.079)	0.228** (0.105)	0.097 (0.099)
Marginal Effect (SE)	0.04027* (0.023)	.0542* (0.031)	-0.031 (0.030)
Depressed	0.491*** (0.045)	0.560*** (0.044)	0.397*** (0.096)
Marginal Effect (SE)	0.101	0.103	0.098
Post-FDA	0.023 (0.035)	0.071 (0.055)	-0.022 (0.054)
Marginal Effect (SE)	-0.016	-0.012	-0.021
Time	0.005 (0.002)	0.008 (0.002)	0.003 (0.003)
Time*Post-FDA	-0.009 (0.002)	-0.012 (0.003)	-0.007 (0.003)
Time*Depressed	-0.008 (0.005)	-0.014 (0.005)	0.000 (0.008)
Female	-0.047 (0.012)		
Quarter=2	0.016 (0.011)	0.024 (0.024)	0.007 (0.020)
Quarter=3	-0.022 (0.013)	-0.018 (0.027)	-0.027 (0.024)
Quarter=4	-0.029 (0.016)	-0.011 (0.026)	-0.046 (0.025)
Age	0.203 (0.005)	0.180 (0.006)	0.226 (0.006)
Black	-0.088 (0.022)	-0.122 (0.026)	-0.057 (0.030)
Native Am	0.402 (0.064)	0.395 (0.099)	0.409 (0.102)
Native HI/PI	-0.044 (0.126)	-0.218 (0.148)	0.130 (0.192)
Asian	-0.333 (0.040)	-0.341 (0.059)	-0.326 (0.069)
Multiple	0.087 (0.047)	0.125 (0.061)	0.043 (0.067)
Hispanic	-0.095 (0.017)	-0.120 (0.026)	-0.072 (0.027)
\$10k-\$20k	-0.050 (0.038)	-0.020 (0.058)	-0.078 (0.055)
\$20k-\$30k	-0.067 (0.036)	0.010 (0.048)	-0.144 (0.046)
\$30k-\$40k	-0.142 (0.034)	-0.096 (0.047)	-0.187 (0.047)
\$40k-\$50k	-0.148 (0.035)	-0.099 (0.042)	-0.193 (0.046)
\$50k-\$75k	-0.199 (0.025)	-0.140 (0.044)	-0.258 (0.039)
>\$75k	-0.221 (0.031)	-0.180 (0.046)	-0.263 (0.042)
Constant	-1.856 (0.037)	-1.891 (0.052)	-1.871 (0.060)

**Appendix Table A5: Regression Results for Misuse of Rx Drugs**

	Any Inappropriate Prescription Drug Use, Past 30 days		
	All	Females	Males
	Coefficient (SE)	Coefficient (SE)	Coefficient (SE)
Post-FDA*Depressed	0.172	0.331**	-0.102
Marginal Effect (SE)	(0.129)	(0.143)	(0.185)
	0.018	.0427*	-0.029
Depressed	(0.020)	(0.024)	(0.044)
	0.490***	0.519***	0.434***
Marginal Effect (SE)	(0.057)	(0.068)	(0.103)
	0.044	0.043	0.047
Post-FDA			
	0.087*	0.026	0.152**
Marginal Effect (SE)	(0.048)	(0.087)	(0.077)
	-0.011	-0.009	-0.014
Time			
	0.014	0.012	0.016
Time*Post-FDA	(0.003)	(0.005)	(0.005)
	-0.016	-0.012	-0.021
Time*Depressed	(0.004)	(0.006)	(0.006)
	-0.011	-0.021	0.007
Female	(0.008)	(0.008)	(0.011)
	0.067		
Quarter=2	(0.018)		
	-0.023	0.013	-0.066
Quarter=3	(0.026)	(0.039)	(0.031)
	-0.061	-0.055	-0.071
Quarter=4	(0.021)	(0.034)	(0.030)
	-0.052	-0.039	-0.070
Age	(0.023)	(0.041)	(0.026)
	0.116	0.104	0.129
Black	(0.006)	(0.008)	(0.010)
	-0.128	-0.131	-0.127
Native Am	(0.028)	(0.033)	(0.043)
	0.184	0.082	0.289
Native HI/PI	(0.094)	(0.138)	(0.146)
	0.099	0.011	0.211
Asian	(0.161)	(0.194)	(0.262)
	-0.268	-0.295	-0.239
Multiple	(0.049)	(0.089)	(0.093)
	-0.033	0.075	-0.212
Hispanic	(0.050)	(0.070)	(0.089)
	-0.145	-0.191	-0.097
\$10k-\$20k	(0.022)	(0.028)	(0.045)
	-0.093	-0.054	-0.140
\$20k-\$30k	(0.046)	(0.073)	(0.069)
	-0.158	-0.116	-0.209
\$30k-\$40k	(0.045)	(0.070)	(0.055)
	-0.182	-0.122	-0.252
\$40k-\$50k	(0.050)	(0.072)	(0.064)
	-0.178	-0.205	-0.153
\$50k-\$75k	(0.039)	(0.052)	(0.052)
	-0.277	-0.248	-0.311
>\$75k	(0.044)	(0.068)	(0.052)
	-0.329	-0.349	-0.312
Constant	(0.036)	(0.059)	(0.052)
	-2.094	-1.984	-2.143
	(0.046)	(0.071)	(0.070)

**Appendix Table A6: Regression Results on Fighting**

	Any Fights Past 12 Months		
	All	Females	Males
	Coefficient (SE)	Coefficient (SE)	Coefficient (SE)
Post-FDA*Depressed	0.187*** (0.054)	0.236*** (0.071)	0.155 (0.124)
Marginal Effect (SE)	0.0653*** (0.025)	.0754*** (0.027)	0.0445 (0.043)
Depressed	0.589*** (0.051)	0.668*** (0.059)	0.488*** (0.075)
Marginal Effect (SE)	0.177	0.175	0.170
Post-FDA	0.205*** (0.031)	0.127*** (0.032)	0.266*** (0.040)
Marginal Effect (SE)	-0.032	-0.038	-0.024
Time	0.022 (0.002)	0.024 (0.003)	0.020 (0.003)
Time*Post-FDA	-0.021 (0.003)	-0.019 (0.003)	-0.023 (0.003)
Time*Depressed	-0.011 (0.004)	-0.016 (0.005)	-0.006 (0.008)
Female	-0.293 (0.011)		
Quarter=2	0.000 (0.017)	-0.008 (0.017)	0.009 (0.022)
Quarter=3	0.032 (0.015)	-0.016 (0.016)	0.072 (0.021)
Quarter=4	-0.084 (0.019)	-0.089 (0.019)	-0.078 (0.025)
Age	-0.024 (0.004)	-0.010 (0.007)	-0.036 (0.004)
Black	0.231 (0.015)	0.290 (0.029)	0.180 (0.021)
Native Am	0.143 (0.062)	0.103 (0.098)	0.178 (0.086)
Native HI/PI	0.126 (0.087)	0.255 (0.134)	-0.022 (0.097)
Asian	-0.219 (0.035)	-0.207 (0.062)	-0.228 (0.051)
Multiple	0.183 (0.028)	0.220 (0.050)	0.150 (0.044)
Hispanic	0.100 (0.017)	0.126 (0.027)	0.080 (0.019)
\$10k-\$20k	-0.053 (0.028)	-0.049 (0.043)	-0.060 (0.036)
\$20k-\$30k	-0.116 (0.027)	-0.086 (0.043)	-0.142 (0.038)
\$30k-\$40k	-0.138 (0.025)	-0.130 (0.041)	-0.147 (0.034)
\$40k-\$50k	-0.190 (0.030)	-0.176 (0.050)	-0.204 (0.038)
\$50k-\$75k	-0.274 (0.028)	-0.286 (0.047)	-0.268 (0.037)
>\$75k	-0.350 (0.029)	-0.366 (0.045)	-0.340 (0.039)
Constant	-0.599 (0.037)	-0.959 (0.055)	-0.544 (0.038)

**Appendix Table A7: Regression Results on Stealing**

	Any Stealing Past 12 Months		
	All	Females	Males
	Coefficient (SE)	Coefficient (SE)	Coefficient (SE)
Post-FDA*Depressed	0.263** (0.126)	0.445** (0.199)	-0.006 (0.181)
Marginal Effect (SE)	0.0464* (0.028)	.0688** (0.032)	-0.0234 (0.038)
Depressed	0.673*** (0.055)	0.735*** (0.090)	0.587*** (0.084)
Marginal Effect (SE)	0.085	0.071	0.098
Post-FDA	0.009 (0.068)	-0.015 (0.093)	0.020 (0.105)
Marginal Effect (SE)	-0.003	0.002	-0.008
Time	0.007 (0.004)	0.007 (0.004)	0.007 (0.005)
Time*Post-FDA	-0.005 (0.005)	-0.004 (0.005)	-0.006 (0.007)
Time*Depressed	-0.013 (0.007)	-0.023 (0.011)	0.001 (0.011)
Female	-0.319 (0.018)		
Quarter=2	0.004 (0.019)	0.017 (0.033)	-0.005 (0.039)
Quarter=3	-0.005 (0.028)	0.002 (0.038)	-0.010 (0.040)
Quarter=4	-0.035 (0.022)	-0.040 (0.031)	-0.033 (0.035)
Age	0.113 (0.005)	0.101 (0.010)	0.121 (0.007)
Black	0.070 (0.033)	0.046 (0.035)	0.085 (0.048)
Native Am	0.281 (0.085)	0.156 (0.119)	0.359 (0.101)
Native HI/PI	0.314 (0.110)	0.392 (0.145)	0.227 (0.180)
Asian	-0.036 (0.062)	-0.017 (0.080)	-0.045 (0.084)
Multiple	0.173 (0.048)	0.200 (0.088)	0.151 (0.076)
Hispanic	0.080 (0.025)	0.022 (0.045)	0.116 (0.036)
\$10k-\$20k	-0.023 (0.039)	0.051 (0.059)	-0.071 (0.049)
\$20k-\$30k	-0.129 (0.040)	-0.028 (0.062)	-0.193 (0.063)
\$30k-\$40k	-0.055 (0.039)	0.046 (0.047)	-0.120 (0.051)
\$40k-\$50k	-0.117 (0.050)	-0.020 (0.059)	-0.178 (0.065)
\$50k-\$75k	-0.150 (0.045)	-0.067 (0.054)	-0.202 (0.059)
>\$75k	-0.203 (0.041)	-0.163 (0.054)	-0.230 (0.054)
Constant	-1.994 (0.043)	-2.328 (0.073)	-1.983 (0.073)

**Appendix Table A8: Regression Results on Attacks**

	Any Attacking Past 12 Months		
	All	Females	Males
	Coefficient (SE)	Coefficient (SE)	Coefficient (SE)
Post-FDA*Depressed	0.034 (0.094)	0.143 (0.133)	-0.070 (0.134)
Marginal Effect (SE)	0.0004 (0.026)	0.0188 (0.031)	-0.0213 (0.039)
Depressed	0.646*** (0.050)	0.697*** (0.056)	0.605*** (0.074)
Marginal Effect (SE)	0.117	0.101	0.133
Post-FDA	0.007 (0.054)	-0.099 (0.085)	0.074 (0.055)
Marginal Effect (SE)	-0.010	-0.010	-0.009
Time	0.006 (0.003)	0.005 (0.005)	0.006 (0.003)
Time*Post-FDA	-0.005 (0.004)	-0.001 (0.006)	-0.008 (0.004)
Time*Depressed	-0.004 (0.006)	-0.010 (0.006)	0.001 (0.009)
Female	-0.322 (0.016)		
Quarter=2	-0.006 (0.020)	0.036 (0.038)	-0.035 (0.021)
Quarter=3	-0.012 (0.016)	-0.006 (0.028)	-0.017 (0.020)
Quarter=4	-0.031 (0.015)	-0.005 (0.029)	-0.049 (0.019)
Age	0.029 (0.004)	0.014 (0.007)	0.039 (0.006)
Black	0.317 (0.019)	0.401 (0.028)	0.253 (0.027)
Native Am	0.145 (0.073)	0.135 (0.115)	0.153 (0.069)
Native HI/PI	0.123 (0.113)	0.294 (0.137)	-0.042 (0.144)
Asian	-0.081 (0.048)	-0.045 (0.098)	-0.102 (0.051)
Multiple	0.211 (0.045)	0.250 (0.077)	0.185 (0.062)
Hispanic	0.020 (0.026)	0.029 (0.040)	0.015 (0.033)
\$10k-\$20k	-0.009 (0.027)	-0.011 (0.047)	-0.011 (0.039)
\$20k-\$30k	-0.035 (0.026)	-0.030 (0.044)	-0.041 (0.042)
\$30k-\$40k	-0.065 (0.031)	-0.089 (0.047)	-0.051 (0.043)
\$40k-\$50k	-0.159 (0.035)	-0.165 (0.038)	-0.155 (0.049)
\$50k-\$75k	-0.213 (0.025)	-0.213 (0.042)	-0.215 (0.039)
>\$75k	-0.315 (0.027)	-0.393 (0.038)	-0.272 (0.039)
Constant	-1.364 (0.041)	-1.645 (0.067)	-1.392 (0.047)