Supplemental Online Content

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This supplementary material has been provided by the authors to give readers additional information about their work.

eMethods.

Adult functional Outcomes:

Health. Participants reported being diagnosed with a serious illness or being in a serious accident at any point during young adulthood. Having a sexually transmitted disease was coded if the participant reported testing positive for herpes, genital warts, chlamydia, or HIV. At each assessment, weight and height measurements were used to derive body mass index. Obesity was defined by CDC definitions up to age 20 and greater than or equal to 30 kg/m² thereafter. Participants were assessed for a DSM-IV psychiatric diagnosis including the following: any DSM-IV anxiety disorder, any depressive disorder, and antisocial personality disorder. Regular smoking was defined as smoking > 1 cigarette per day for 3 months. A physical health problems survey adapted from Form HIS-1A (1998), US Department of Commerce for the U.S. Public Health Service was administered at all interviews. This assessed self-reported perceived poor health, high illness contagion risk, and slow illness recovery. Finally, a dichotomous variable was included to indicate if participant had a C-Reactive protein level of greater than 3.0, which is considered a risk factor for cardiovascular disease.

Risky/illegal behaviors. Official felony charges were harvested from NC administrative Offices of the Courts records. Self-report was used to assess recent *police contact*, often *lying* to others, *frequent physical fighting*, and *breaking into another home/business/property*. Frequent *drunkenness* was coded if subject reported drinking to excess at least once weekly for 3 months. Subjects reported recent use of *marijuana* or other *illegal substances*. Finally, subjects reported having one-time sexual encounters with strangers (*hooking up with strangers*).

Wealth: Financial/educational accomplishments. Being impoverished was coded based on thresholds issued by the Census Bureau based on income and family size ³⁶. High school

dropout and completion of any college education were coded based upon the subject's educational status at the last adult assessment. The following job problems were assessed at each assessment: being dismissed or fired from a job and quitting a job without financial preparations. Finally, other financial problems assessed included: failing to honor debts or financial obligations and being a poor manager of one's finances.

Social relationships. Marital, parenthood, and divorce status were determined through self-report at the last adult assessment. The quality of the participant's relationship with their parents, spouse/significant other, and friends was assessed at each assessment including arguments and violence. Variables were included to indicate any violence in a primary relationship, poor relationship with one's parents, no best friend or confidente, and problems making or keeping friends.

eTable 1. Comparison of American Indian Cohorts Prior to Casino Opening

	Youngest Cohort	Middle Cohort	Oldest Cohort	P value
	M (SD) of n (%)	M (SD) of n (%)	M (SD) of n (%)	
Demographics				
#AI Parents				
Two	62(57.9%)	68(58.3%)	55(60.4%)	
One	44(39.3%)	41(34.8%)	34(36.3%)	0.5740
Zero	4(2.8%)	8(7.0%)	3(3.3%)	
Male	57(51.4%)	59(49.6%)	47(50.5%)	0.9632
Childhood risk factors				
Low SES	62(57.9%)	66(56.5%)	43(47.3%)	0.2695
Family Instability	33(30.0%)	41(35.7%)	24(26.4%)	0.3202
Low Birthweight	6(5.8%)	6(5.6%)	1(1.3%)	0.0193
Income Level	3.43(2.46)	3.45(2.75)	4.48(3.09)	0.0119
Body Mass Index	23.43(8.93)	25.00(6.60)	26.08(6.69)	0.0436
Childhood health				
Depression	0.61(0.56)	0.73(0.59)	0.59(0.71)	0.1993
Anxiety	0.90(1.09)	0.98(1.28)	0.72(1.06)	0.2527
Oppositional Disorder	0.59(0.96)	0.81(1.11)	0.52(0.75)	0.0777
Conduct Disorder	0.30(0.45)	0.57(0.81)	0.48(0.76)	0.0114

Note: p values obtained from Chi-square tests for categorical variables and from ANOVA tests for continuous variables.

eTable 2. Comparison of Individual American Indian Cohorts With Non-American Indian Cohorts

Outcomes	Youngest cohort					Middl	e cohor	t	Oldest cohort				Wald equality test
	RR		CI	р	RR	(CI	р	RR	C	Ι	р	
Psychiatric													
Anxiety sx.	0.27	0.16	0.44	0.0000	0.37	0.23	0.59	0.0000	0.37	0.23	0.60	0.0001	0.0000
Depression sx.	0.40	0.30	0.55	0.0000	0.54	0.40	0.73	0.0001	0.65	0.45	0.92	0.0156	0.0000
Substance													
Alcohol sx.	0.72	0.29	1.77	0.4743	1.07	0.51	2.26	0.8503	1.20	0.54	2.65	0.6596	0.7613
Cannabis sx.	0.34	0.13	0.88	0.0267	0.70	0.33	1.49	0.3574	0.33	0.12	0.95	0.0420	0.0364
Functional													
Physical health	0.50	0.37	0.66	0.0000	0.75	0.57	0.99	0.0446	0.80	0.59	1.07	0.1342	0.0000
Financial/ employment	0.63	0.49	0.81	0.0006	0.81	0.66	1.00	0.0483	0.92	0.71	1.19	0.5184	0.0029
Risky/illegal	0.43	0.30	0.60	0.0000	0.57	0.41	0.79	0.0007	0.76	0.52	1.12	0.1670	0.0000
Social	0.79	0.62	1.00	0.0542	1.09	0.85	1.41	0.5008	1.34	1.06	1.69	0.0153	0.0065

eTable 3. Comparison Between Individual American Indian Cohorts

Outcomes		Youngest	vs. Oldes	t	Middle vs. Oldest Cohort					
	RR	(CI	р	RR	CI		р		
Psychiatric										
Anxiety sx.	0.72	0.36	1.41	0.3314	0.98	0.50	1.92	0.9588		
Depression sx.	0.62	0.39	0.99	0.0463	0.83	0.54	1.29	0.4160		
Substance										
Alcohol sx.	0.60	0.23	1.56	0.2964	0.90	0.36	2.26	0.8201		
Cannabis sx.	1.03	0.28	3.74	0.9659	2.11	0.57	7.81	0.2629		
Functional										
Physical health	0.62	0.43	0.91	0.0140	0.95	0.65	1.37	0.7723		
Financial/ employment	0.69	0.47	0.99	0.0469	0.88	0.64	1.21	0.4364		
Risky/illegal	0.56	0.34	0.91	0.0203	0.75	0.46	1.22	0.2521		
Social	0.59	0.43	0.81	0.0011	0.82	0.58	1.14	0.2390		

eTable 4. Comparison of 2 American Indian Parents Group and 1 American Indian Parent Group With the No American Indian Parents Group

Outcomes		Two AI	parents			Wald equality test			
	RR		CI	р	RR CI		Ι	р	
Psychiatric									
Anxiety sx.	0.24	0.16	0.36	0.0000	0.57	0.35	0.94	0.0263	0.0000
Depression sx.	0.41	0.33	0.52	0.0000	0.70	0.52	0.94	0.0194	0.0000
Substance									
Alcohol sx.	1.09	0.52	2.28	0.8155	0.63	0.30	1.34	0.2333	0.4067
Cannabis sx.	0.31	0.15	0.62	0.0012	0.60	0.31	1.17	0.1344	0.0030
Functional									
Physical health	0.58	0.46	0.72	0.0000	0.70	0.52	0.95	0.0223	0.0000
Financial/ employment	0.79	0.67	0.92	0.0036	0.74	0.60	0.91	0.0043	0.0014
Risky/illegal	0.54	0.41	0.71	0.0000	0.58	0.39	0.84	0.0009	0.0000
Social	1.04	0.87	1.26	0.6543	1.06	0.89	1.26	0.4853	0.7832

eTable 5. Comparison Between 2 American Indian Parents Group and 1 American Indian Parent Group

Outcomes	Two A	Two AI parents vs. One AI parent								
Outcomes	RR		CI	р						
Psychiatric										
Anxiety sx.	0.43	0.23	0.78	0.0054						
Depression sx.	0.58	0.41	0.83	0.0029						
Substance										
Alcohol sx.	1.73	0.76	3.95	0.1915						
Cannabis sx.	0.52	0.24	1.11	0.0894						
Functional										
Physical health	0.82	0.59	1.14	0.2486						
Financial/ employment	1.06	0.84	1.34	0.6057						
Risky/illegal	0.94	0.66	1.36	0.7561						
Social	0.98	0.80	1.20	0.8526						

eTable 6. Association of Ever Receiving the Family Cash Transfer With Adult Mental Health, Substance, and Functional Outcomes (Age 30 Years Outcomes Only)

	RR	95%	% CI
Adult psychiatric			
Anxiety symptoms	0.30	0.21	0.45
Depression symptoms	0.45	0.33	0.60
Adult substance			
Alcohol symptoms	1.02	0.53	1.95
Cannabis symptoms	0.36	0.16	0.83
Adult functional			
Physical health	0.82	0.66	1.01
Financial/employment	0.84	0.71	0.98
Risky/illegal behavior	0.59	0.44	0.78
Social relationships	0.94	0.78	1.14

Note: All results are combined across 10 imputed datasets by Rubin's formula. All models adjusted for the following childhood pre-exposure measures: depression sx., anxiety sx., sum of oppositional disorder and conduct disorder sx., cohort, sex, low SES status, family instability, low birthweight, household income, BMI, and BMI 2 . Models in which the confidence intervals do not include 0 are significant at p 2 0.05.

eTable 7. Associations of Duration of Exposure to Transfer, Annual Amount, and Cumulative Exposure With Adult Outcomes (Age 30 Years Outcomes Only)

Outcomes	Number of Childhood Years with Transfer			Numbe	r of AI par	rents		Cumulative Exposure (Number of AI parents * Years)			
Outcomes	Relative Risk	95% CI		Relative Risk	95% CI		Relative Risk	95% CI			
Adult psychiatric											
Anxiety symptoms	0.78	0.69	0.87	0.50	0.37	0.68	0.84	0.78	0.91		
Depression symptoms	0.86	0.79	0.93	0.55	0.46	0.66	0.90	0.85	0.94		
Adult substance											
Alcohol symptoms	1.02	0.87	1.20	1.05	0.69	1.60	1.04	0.94	1.14		
Cannabis symptoms	0.78	0.63	0.98	0.50	0.28	0.91	0.86	0.75	1.00		
Adult functional											
Physical health	0.98	0.93	1.03	0.87	0.76	0.98	0.99	0.96	1.02		
Financial/employment	0.97	0.94	1.01	0.90	0.82	0.99	0.99	0.96	1.01		
Risky/illegal behavior	0.91	0.85	0.98	0.72	0.60	0.86	0.95	0.90	0.99		
Social relationships	1.01	0.97	1.06	0.98	0.88	1.09	1.01	0.98	1.04		

Note: All results are combined across 10 imputed datasets by Rubin's formula. All results based on linear regression models adjusting for sex, cohort, and the following covariates prior to the casino opening: family low SES status, family instability, household income, low birthweight, body mass index, anxiety symptoms, depressive symptoms, and behavioral symptoms. Models in which the confidence intervals do not include 0 are significant at p < 0.05.

eFigure. Ascertainment of the Original Great Smoky Mountains Study Sample

