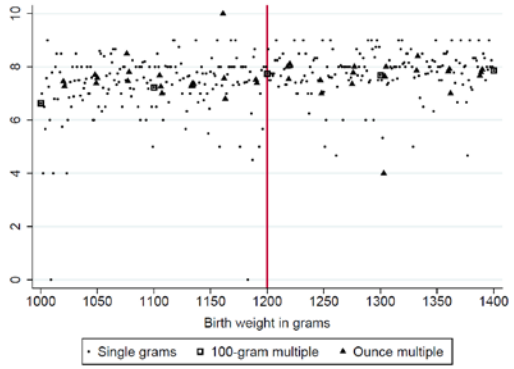
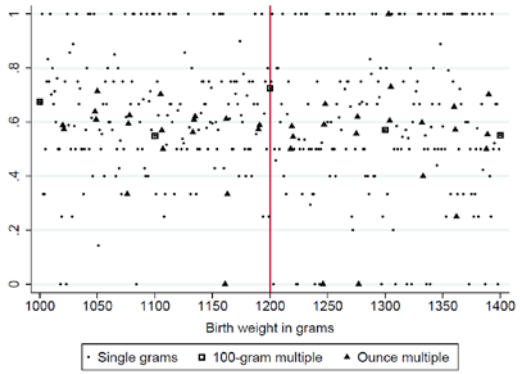
Online Appendix: Supplemental Security Income and Child Outcomes: Evidence from Birth Weight Eligibility Cutoffs

Appendix Figure 1: Selected Characteristics at Ounce and 100-gram Multiples, Analysis sample with high school or less, <= 32 weeks gestation (BC-L)

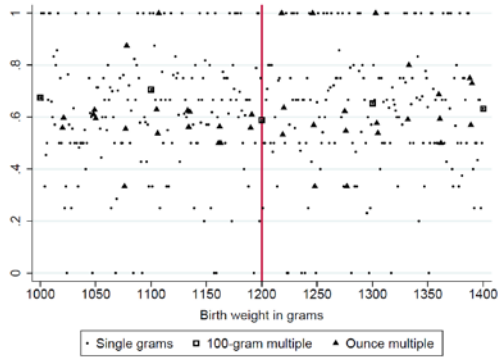
Apgars



Mother not married



Mother nonwhite



Appendix Table 1: SSA Birth weight Cutoffs by Gestational Age

Gestational Age (in weeks)	Birth weight (in grams)	Birth weight (in lbs. and oz.)
≥ 37-40	≤ 2000	4 lbs 6.50 oz
≥ 36	≤ 1875	4 lbs 2.14 oz
≥ 35	≤ 1700	3 lbs 11.97 oz
≥ 34	≤ 1500	3 lbs 4.91 oz
≥ 33	≤ 1325	2 lbs 14.74 oz
≥ 32	≤ 1250	2 lbs 12.09 oz
Any	< 1200	2 lbs 10.33 oz

Source: SSA Program Operations Manual System (POMS)

Appendix Table 2: Summary Statistics

Panel A: ECLS-B[a]	(1)	(2)	(3)	(4)	(5)
	Mean	SD	Min	Max	Obs.
SSI/SSDI receipt	0.311	--	0	1	600
Any health insurance coverage	0.980	--	0	1	650
Private health insurance coverage	0.280	--	0	1	650
Public health insurance coverage	0.773	--	0	1	650
No coverage at any time	0.075	--	0	1	650
Child is male	0.502	--	0	1	650
Child is nonwhite	0.651	--	0	1	650
Mother not married	0.608	--	0	1	650
Apgar score	7.665	1.517	1	10	550
First birth	0.424	--	0	1	650
Winter birth	0.265	--	0	1	650
Bayley mental t-score	43.162	14.272	-16.7	92.6	650
Bayley motor t-score	45.010	11.662	-9.3	80	650
Nursing child assessment teaching scale – parent	33.027	4.490	17	48	500
Nursing child assessment teaching scale – child	14.730	2.784	7	23	500
Mother works	0.355	--	0	1	650
Mother works full time	0.233	--	0	1	650
Mother works part time	0.121	--	0	1	650
Hours worked	35.292	11.155	5	80	250
Father works	0.879	--	0	1	400
Father works full time	0.799	--	0	1	400
Father works part time	0.080	--	0	1	400
Hours worked by father	43.950	11.282	3	89	350

Panel B: HCUP-SID[b]	Mean	SD	Min	Max	Obs.
Child is male	0.508	--	0	1	3600
Child is singleton	0.794	--	0	1	3600
Cesarean delivery	0.599	--	0	1	3600
Child is nonwhite	0.552	--	0	1	3287
Arkansas	0.606	--	0	1	3600
Arizona	0.278	--	0	1	3600
North Carolina	0.085	--	0	1	3600
New Mexico	0.031	--	0	1	3600
Vermont	0.000	--	0	1	3600
Year	2008.304	2.085	2006	2013	3600
Payer 1: Medicaid	0.748	--	0	1	2584

Payer 1: private insurance	0.181	--	0	1	2584
Payer 1: self-pay	0.047	--	0	1	2584
Payer 1: other	0.024	--	0	1	2584
Payer 2: Medicaid	0.609	--	0	1	368
Payer 2: private insurance	0.141	--	0	1	368
Payer 2: self-pay	0.223	--	0	1	368
Payer 2: other	0.027	--	0	1	368

Panel C: BC-L[c]	Mean	SD	Min	Max	Obs.
Infant mortality	0.134	--	0	1	60319
Post neonatal mortality	0.020	--	0	1	60319
Neonatal mortality	0.112	--	0	1	60319
Birth weight in grams	1735.522	940.047	250	5387	60319
Gestational age	28.823	3.192	20	32	60319
Child is male	0.535	--	0	1	60319
Child is singleton	0.838	--	0	1	60319
Apgars score	7.451	2.379	0	10	47392
Mom is nonwhite	0.614	--	0	1	60319
Mom's age	24.837	6.551	14	45	60319
Mom is unmarried	0.609	--	0	1	60319
Mom drank during pregnancy	0.018	--	0	1	53911
Mom smoked during pregnancy	0.206	--	0	1	54053
Any pregnancy risk	0.487	--	0	1	59678
Induction of labor	0.084	--	0	1	60024
Cesarean delivery	0.410	--	0	1	60155

Notes:

[a]All variables from the ECLS-B 9-month wave, with the exception of SSI/SSDI receipt. SSI/SSDI receipt asked in the 2-year wave ("Has anyone in the household received SSI/SSDI since the 9-month wave?") Observations rounded to the nearest 50 as per NCES confidentiality restrictions. Sample limited to infants with mother with a high school degree or less and gestational age <=32 weeks. Infants born at 32 weeks between 1200 grams and 1250 grams were dropped from the sample. Total number of observations is 650.

[b]All variables from the HCUP-SID AR 2006-2013, AZ 2006-2007, NC 2006-2010, NM 2012, VT 2012 databases. Sample limited to infants with a person identifier, living in the bottom quartile of the zip code income distribution and gestational age <=32 weeks. Infants born at 32 weeks between 1200 and 1250 grams were dropped from the sample. Total number of observations is 3600.

[c] All variables from NCHS 2001 Birth Cohort Linked Birth - Infant Death Data Files. Sample limited to infants with mother with a high school degree or less and gestational age <=32 weeks. Infants born at 32 weeks between 1200 and 1250 grams were dropped from the sample. Total number of observations is 60319.

Appendix Table 3: Manipulation of Gestational Age Around 1200-gram Threshold, BC-L

	(1) Gestational age < 32 weeks	(2) Cesarean delivery	(3) Induction of labor	(4) Mother's education <= high school
Flexible Linear Parametric Model - within 200g window				
	0.0002	0.0080	-0.0095	0.0083
	(0.0159)	(0.0175)	(0.0092)	(0.0148)
Observations	12657	12629	12580	17856
Nonparametric - local linear within CCFT window				
	-0.0002	0.0046	-0.0173	0.0084
	(0.0204)	(0.0207)	(0.0109)	(0.0157)
Observations	2092906	2083944	2085278	101768
Eff obs left	5929	8060	6909	14419
Eff obs right	5682	7273	6401	14055
BW Local Poly	188	241	210	311

Notes: All variables from NCHS 2001 Birth Cohort Linked Birth - Infant Death Data Files Sample limited to infants with mother with a high school degree or less and gestational age <=32 weeks. Infants born at 32 weeks between 1200g and 1250g were dropped from the sample. Regressions check for evidence of manipulation of gestational age around the 1200-gram threshold. Column 4 is limited to infants with gestational age <=32 weeks but dropping infants at 32 weeks gestation with birth weights between 1200 and 1250 grams. Column 4 checks for evidence that our sample restriction to infants whose mother has a high school degree or less does not differ substantially around the threshold. Parametric regressions have bootstrapped and non-parametric regressions have robust standard errors in parentheses. *** p<0.01, ** p<0.05, * p<0.1

Appendix Table 4: Pretreatment Characteristics at the 1200-gram Cutoff, HCUP-SID and BC-L

Panel A: HCUP SID[a]	(1) Child is nonwhite	(2) Arkansas	(3) Arizona	(4) North Carolina	(5) New Mexico	(6) Cesarean delivery	(7) Child is male	(8) Child is singleton	(9) Year
Dep Var Mean	0.552	0.606	0.278	0.085	0.031	0.599	0.508	0.794	2008.304
Flexible Linear Parametric Model - within 200g window									
	0.0365	0.0496	0.0222	-0.0529	-0.0214	-0.0152	-0.0864	0.0561	0.2420
	(0.0733)	(0.0681)	(0.0628)	(0.0412)	(0.0238)	(0.0639)	(0.0683)	(0.0600)	(0.2959)
Observations	843	911	911	911	911	911	911	911	911
Nonparametric - local linear within CCFT window									
	0.0672	0.0554	0.0052	-0.0345	-0.0317	-0.0859	-0.1003	0.0671	0.3234
	(0.0826)	(0.0754)	(0.0662)	(0.0405)	(0.0266)	(0.0854)	(0.0815)	(0.0595)	(0.3220)
Observations	3287	3600	3600	3600	3600	3600	3600	3600	3600
Eff obs left	580	600	632	749	619	478	619	808	531
Eff obs right	537	539	567	693	554	466	555	745	487
BW Local Poly	268	247	264	319	256	208	257	338	223

Panel B:BC-L[b]	(1) Apgar score	(2) Cesarean delivery	(3) Mother drank while pregnant	(4) Induction of labor	(5) Child is male	(6) Mother's age	(7) Mother's race is nonwhite	(8) Any pregnancy risk	(9) Child is singleton	(10) Mother is nonmarried	(11) Mother smoked while pregnant	(12) First birth	(13) Winter Birth
Dep Var Mean	7.451	0.41	0.018	0.084	0.535	24.837	0.614	0.487	0.838	0.609	0.206	0.3916	0.2471
Flexible Linear Parametric Model - within 200g window													
	-0.0319	0.0234	-0.0023	-0.0070	-0.0445**	-0.4623*	0.0243	0.0103	0.0061	0.0048	-0.0333*	0.0262	-0.0047
	(0.0757)	(0.0202)	(0.0056)	(0.0095)	(0.0203)	(0.2752)	(0.0200)	(0.0201)	(0.0166)	(0.0197)	(0.0171)	(0.0196)	(0.0172)
Observations	7946	9856	8893	9815	9880	9880	9880	9751	9880	9880	8921	9841	9880
Nonparametric - local linear within CCFT window													
	-0.1004	0.0249	-0.0069	-0.0129	-0.0590***	-0.5746*	0.0325	-0.0051	0.0065	0.0116	-0.0327*	0.0226	0.0052
	(0.0980)	(0.0242)	(0.0069)	(0.0114)	(0.0217)	(0.3393)	(0.0217)	(0.0237)	(0.0208)	(0.0210)	(0.0175)	(0.0211)	(0.0166)
Observations	47392	60155	53911	60024	60319	60319	60319	59678	60319	60319	54053	60111	60319
Eff obs left	3864	5680	4364	5460	7041	4841	6481	5510	5660	7835	7266	7099	9324
Eff obs right	3929	6240	4433	5565	7147	4950	7067	5611	5751	7914	7695	7193	9393
BW Local Poly	191	237	197	220	275	200	270	226	234	306	324	284	369

Notes:

[a]All variables from the HCUP-SID AR 2006-2013, AZ 2006-2007, NC 2006-2010, NM 2012, VT 2012 databases. Sample limited to infants with a person identifier, living in the bottom quartile of the zip code income distribution and gestational age <=32 weeks. Infants born at 32 weeks between 1200 and 1250 grams were dropped from the sample.

[b] All variables from NCHS 2001 Birth Cohort Linked Birth - Infant Death Data Files. Sample limited to infants with mother with a high school degree or less and gestational age <=32 weeks. Infants born at 32 weeks between 1200 and 1250 grams were dropped from the sample. Parametric regressions have bootstrapped and non-parametric regressions have robust standard errors in parentheses. *** p<0.01, ** p<0.05, * p<0.1

Appendix Table 5: Effects of SSI Eligibility on Participation in other Public Programs

	(1)	(2)	(3)
	TANF	Food Stamps	WIC
Dep Var Mean	0.173	0.378	0.843
Flexible Linear Parametric Model - within 200g window			
	-0.091	0.051	0.025
	(0.106)	(0.130)	(0.107)
Observations	250	250	250
Nonparametric - local linear within CCT window			
	-0.079	0.078	0.055
	(0.112)	(0.163)	(0.111)
Observations	650	650	650
Eff obs left	200	150	200
Eff obs right	200	150	200
BW Local Poly	354.6	223.4	349.3

Notes: Data source is ECLS-B 9-month wave. All regressions limited to infants with mother with a high school degree or less and gestational age <=32 weeks. Infants born at 32 weeks between 1200 and 1250 grams were dropped from the sample.

All sample sizes rounded to nearest 50 as per NCES confidentiality restrictions. Parametric regressions have bootstrapped and non-parametric regressions have robust standard errors in parentheses. *** p<0.01, ** p<0.05, * p<0.1

Appendix Table 6: Missing Values across 1200-gram Threshold, HCUP-SID

	(1) Payer 1 missing	(2) Payer 2 missing
Dep Var Mean	0.2822	0.8978
Flexible Linear Parametric Model - within 200g window		
	0.0255	-0.0217
	(0.0637)	(0.0460)
Observations	911	911
Nonparametric - local linear within CCFT window		
Observations	660	660
	0.0089	-0.0055
	(0.0665)	(0.0477)
Observations	3600	3600
Eff obs left	621	743
Eff obs right	556	685
BW Local Poly	259	314

Notes: All variables from the HCUP-SID AR 2006-2013, NC 2006-2010, NM 2012, VT 2012 databases. Sample limited to infants with a person identifier, living in the bottom quartile of the zip code income distribution and gestational age <=32 weeks. Infants born at 32 weeks between 1200 and 1250 grams were dropped from the sample. Parametric regressions have bootstrapped and non-parametric regressions have robust standard errors in parentheses. *** p<0.01, ** p<0.05, * p<0.1

Appendix Table 7: Robustness to Alternate Specifications, BC-L and HCUP-SID

Panel A: HCUP-SID [a]							
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
	200g linear	200g quadratic	150g linear	150g quadratic	CCFT	200g linear with covariates	CCFT with covariates
Payer 2: Medicaid	0.2283	0.4141	0.2507	0.7700***	0.3676*	0.1668	0.1077
	(0.1874)	(0.2722)	(0.2093)	(0.2960)	(0.2053)	(0.1974)	(0.1955)
Panel B: BC-L [b]							
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
	200g linear	200g quadratic	150g linear	150g quadratic	CCFT	200g linear with covariates	CCFT with covariates
Infant Mortality	-0.0036	0.0054	0.0001	0.0179	0.0107	-0.0021	0.0104
	(0.0098)	(0.0139)	(0.0112)	(0.0166)	(0.0140)	(0.0102)	(0.0146)

Notes:

[a] All variables from the HCUP-SID AR 2006-2013, AZ 2006-2007, NC 2006-2010, NM 2012, VT 2012 databases. Sample limited to infants with a person identifier, living in the bottom quartile of the zip code income distribution and gestational age <=32 weeks. Infants born at 32 weeks between 1200 and 1250 grams were dropped from the sample.

[b] Data from NCHS 2006 to 2010 Birth Cohort Linked Birth - Infant Death Data Files. All regressions limited to infants with mother with a high school degree or less and gestational age <=32 weeks. Infants at 32 weeks gestation with birth weights between 1200 and 1250 grams were dropped from the sample.

Appendix Table 8: Robustness to Alternative Samples and Falsification Tests, BC-L and HCUP-SID

Panel A: HCUP-SID [a]						
	(1) Baseline	(2) Only Ounce Heaps	(3) Without NY	(4) 1100g	(5) 1300g	(6) Birth zip-code Q3 and Q4
Payer 2: Medicaid-200	0.2283	0.1102	--	-0.2491	0.0851	0.0607
	(0.1874)	(0.4308)		(0.1722)	(0.1883)	(0.3853)
Payer 2: Medicaid-CCFT	0.3676*	-0.0897	--	-0.2917	0.1209	-0.0593
	(0.205)	(0.4320)		(0.2171)	(0.1760)	(0.4129)
Panel B: BC-L [b]						
	(1) Baseline	(2) Only Ounce Heaps	(3) Without NY	(4) 1100g	(5) 1300g	(6) Mothers with college degree
Infant Mortality- 200	-0.0036	-0.0013	-0.0034	-0.0004	0.0005	-0.0289**
	(0.0098)	(0.0121)	(0.0101)	(0.0114)	(0.0095)	(0.0131)
Infant Mortality-CCFT	0.0107	0.0258	0.0065	0.0082	0.0098	-0.0283
	(0.0140)	(0.0164)	(0.0143)	(0.0177)	(0.0143)	(0.0187)

Notes:

[a] All variables from the HCUP-SID AR 2006-2013, AZ 2006-2007, NC 2006-2010, NM 2012, VT 2012 databases. Sample limited to infants with a person identifier, living in the bottom quartile of the zip code income distribution and gestational age <=32 weeks. Infants born at 32 weeks between 1200 and 1250 grams were dropped from the sample.

[b] Data from NCHS 2006 to 2010 Birth Cohort Linked Birth - Infant Death Data Files. All regressions limited to infants with mother with a high school degree or less and gestational age <=32 weeks. Infants at 32 weeks gestation with birth weights between 1200 and 1250 grams were dropped from the sample.