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# APPENDIX A

ESTIMATED REGRESSION COEFFICIENTS FOR MODEL TO ESTIMATE THE EFFECT OF WIC PARTICIPATION ON MEDICAID COSTS (DOLLARS)

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### TABLE A.1

# ESTIMATED REGRESSION COEFFICIENTS FOR MODEL TO ESTIMATE THE EFFECT OF WIC PARTICIPATION ON MEDICAID COSTS: FLORIDA, BIRTH TO 60 DAYS AFTER BIRTH (Standard Errors in Parentheses)

Explanatory Variables	Coefficients (\$): Newborns and Mothers
Intercept	2,101 ** (134)
Prenatal WIC Participation	-347 ** (48)
Newborn Characteristics Male <sup>a</sup>	113 * (46)
Multiple birth	7,626 ** (197)
Mother Characteristics Age 18-19	123 (89)
Age 20-34	146 (84)
Age 35 and over	797 ** (162)
Black	399 ** (54)
Hispanic	226 ** (86)
Other <sup>b</sup>	-351 (278)
Not married	20 (53)
Kessner Index intermediate	-105 ° (51)
Kessner Index inadequate	210 •• (73)

TABLE A.1 (continued)

Explanatory Variables	Coefficients (\$): Newborns and Mothers
Mother Characteristics (continued)	
Kessner Index missing	511 ** (134)
Previous live births (number)	-41 (20)
Education < 9 years	8 (113)
Education 9-11 years	50 (83)
Education 12 years	47 (78)
Urban	117 (69)
Prenatal Care from Public Health Clinic	-203 ** (69)
R <sup>2</sup> Sample Size	.052 30,968

SOURCE: Florida WIC/Medicaid birth event analysis file.

NOTE: The unit of observation is the birth event. Observations with Medicaid costs from birth to 60 days after birth ≤ \$200 are excluded.

<sup>\*(\*\*):</sup> Significant at the .05 (.01) level, two-tailed test.

<sup>&</sup>lt;sup>a</sup>In the case of multiple births, the binary "Male" is coded one if at least one of the newborns was a male.

<sup>&</sup>lt;sup>b</sup>Other includes Native American and Asian.

TABLE A.2

# ESTIMATED REGRESSION COEFFICIENTS FOR MODEL TO ESTIMATE THE EFFECT OF WIC PARTICIPATION ON MEDICAID COSTS: MINNESOTA, BIRTH TO 60 DAYS AFTER BIRTH (Standard Errors in Parentheses)

Explanatory Variables	Coefficients (\$): Newborns and Mothers
Intercept	2,710 <b>**</b> (383)
Prenatal WIC Participation	-277 (154)
Newborn Characteristics Male <sup>a</sup>	210 (138)
Multiple birth	11,007 ** (603)
Mother Characteristics Age 18-19	-499 (315)
Age 20-34	-249 (301)
Age 35 and over	-155 (490)
Black	1,090 ** (250)
American Indian	-18 (274)
Asian	-787 ** (334)
Not married	80 (156)
Kessner Index intermediate	390 <b>*</b> (161)
Kessner Index inadequate	1,184 ** (254)

TABLE A.2 (continued)

Explanatory Variables	Coefficients (\$): Newborns and Mothers
Mother Characteristics (continued)	
Kessner Index missing	1,663 <b>**</b> (225)
Previous live births (number)	-155 <b>*</b> (60)
Pregnancy Terminations ≤ 20 weeks	316 <b>**</b> (95)
Pregnancy Terminations of >20 weeks	484 (433)
Education < 9 years	691 (425)
Education 9-11 years	496 * (236)
Education 12 years	72 (208)
Education missing	376 (312)
Urban	952 <b>**</b> (154)
R <sup>2</sup> Sample Size	.049 10,441

SOURCE: Minnesota WIC/Medicaid birth event analysis file.

NOTE: The unit of observation is the birth event. Observations with Medicaid costs from birth to 60 days after birth ≤ \$200 are excluded.

<sup>\*(\*\*):</sup> Significant at the .05 (.01) level, two-tailed test.

<sup>&</sup>lt;sup>a</sup>In the case of multiple births, the binary "Male" is coded one if at least one of the newborns was a male.

TABLE A.3

ESTIMATED REGRESSION COEFFICIENTS FOR MODEL TO ESTIMATE
THE EFFECT OF WIC PARTICIPATION ON MEDICAID COSTS:
NORTH CAROLINA, BIRTH TO 60 DAYS AFTER BIRTH
(Standard Errors in Parentheses)

Explanatory Variables	Coefficients (\$): Newborns	Coefficients (\$): Newborns and Mothers
Intercept	2,204 <b>**</b> (171)	2,699 <b>**</b> (176)
Prenatal WIC Participation	-744 ** (71)	-598 <b>**</b> (73)
Newborn Characteristics Male <sup>a</sup>	79 (63)	99 (64)
Multiple birth	8,578 <b>**</b> (1,107)	8,001 <b>**</b> (1,167)
Mother Characteristics Age 18-19	-114 (118)	9 (120)
Age 20-34	-97 (115)	112 (117)
Age 35 and over	306 (245)	699 <b>**</b> (251)
Nonwhite	227 <b>**</b> (76)	378 <b>**</b> (77)
Not married	-178 <b>*</b> (79)	-148 (81)
Kessner Index intermediate	342 ** (68)	289 <b>**</b> (69)
Kessner Index inadequate	743 <b>**</b> (127)	542 ** (128)
Kessner Index missing	1,230 ** (180)	1,252 ** (184)
Previous live births (number)	-121 <b>**</b> (32)	-162 ** (33)

TABLE A.3 (continued)

Explanatory Variables	Coefficients (\$): Newborns	Coefficients (\$): Newborns and Mothers
Mother Characteristics (continued) Pregnancy terminations of >20 weeks	205 <b>**</b> (57)	224 <b>**</b> (58)
Education <9 years	288 (166)	428 <b>*</b> (169)
Education 9-11 years	27 (113)	40 (116)
Education 12 years	-12 (104)	-12 (107)
Education Missing	-46 (855)	-183 (846)
Urban	145 * (63)	220 ** (65)
R <sup>2</sup> Sample Size	.020 16,078	.015 17,135

SOURCE: North Carolina WIC/Medicaid birth event analysis file.

NOTE: The unit of observation is the birth event. Observations with Medicaid costs from birth to 60 days after birth \( \sqrt{200} \) are excluded.

<sup>\*(\*\*):</sup> Significant at the .05 (.01) level, two-tailed test.

<sup>&</sup>lt;sup>a</sup>In the case of multiple births, the binary "Male" is coded one if at least one of the newborns was a male.

TABLE A.4

ESTIMATED REGRESSION COEFFICIENTS FOR MODEL TO ESTIMATE
THE EFFECT OF WIC PARTICIPATION ON MEDICAID COSTS: SOUTH CAROLINA
(Standard Errors in Parentheses)

	Coefficients (\$): Newborns and Mothers		
Explanatory Variables	Hospital Reimbursements, Birth to 60 Days after Birth	Total Reimbursements, Prenatal and Birth to 60 Days after Birth	
Intercept	2,828 ** (277)	3,867 ** (368)	
Prenatal WIC Participation	-565 <b>**</b> (110)	-710 ** (146)	
Newborn Characteristics Male <sup>a</sup>	139 (94)	165 (125)	
Multiple birth	6,729 <b>**</b> (415)	8,391 <b>**</b> (549)	
Mother Characteristics Age 18-19	-296 (179)	-251 (237)	
Age 20-34	-279 (162)	-230 (215)	
Age 35 and over	530 (344)	884 (458)	
Nonwhite	-53 (120)	-8 (159)	
Not married	-86 (114)	-29 (151)	
Kessner Index intermediate	0 (108)	-155 (144)	
Kessner Index inadequate	623 <b>**</b> (144)	516 <b>**</b> (192)	

TABLE A.4 (continued)

	Coefficients (\$): Newborns and Mothers			
Explanatory Variables	Hospital Reimbursements, Birth to 60 Days after Birth	Total Reimbursements, Prenatal and Birth to 60 Days after Birth		
Mother Characteristics (continued) Kessner Index missing	685 (362)	801 (481)		
Education < 9 years	229 (242)	529 (322)		
Education 9-11 years	102 (172)	160 (229)		
Education 12 years	-62 (164)	-104 (218)		
Education missing	1,726 ** (654)	2,158 <b>*</b> (866)		
Urban	81 (96)	-49 (127)		
R <sup>2</sup> Sample Size	.031 10,879	.027 10,978		

SOURCE: South Carolina WIC/Medicaid birth event analysis file.

NOTE: The unit of observation is the birth event. Observations with Medicaid costs from birth to 60 days after birth < \$200 are excluded.

<sup>\*(\*\*):</sup> Significant at the .05 (.01) level, two-tailed test.

<sup>&</sup>lt;sup>a</sup>In the case of multiple births, the binary "Male" is coded one if at least one of the newborns was a male.

TABLE A.5

ESTIMATED REGRESSION COEFFICIENTS FOR MODEL TO ESTIMATE
THE EFFECT OF WIC PARTICIPATION ON MEDICAID COSTS:
TEXAS, BIRTH TO 60 DAYS AFTER BIRTH
(Standard Errors in Parentheses)

Explanatory Variables	Coefficients (\$): Newborns	Coefficients (\$): Newborns and Mothers
Intercept	2168 ** (154)	3572 ** (151)
Prenatal WIC Participation	-573 ** (75)	-493 ** (74)
Newborn Characteristics Male <sup>a</sup>	153 * (74)	223 <b>**</b> (72)
Multiple birth	8538 ** (297)	9428 ** (305)
Mother Characteristics Age 18-19	-194 (138)	-238 (135)
Age 20-34	-92 (125)	0 (123)
Age 35 and over	711 ··· (243)	844 ** (238)
Black, nonspanish	-226 ° (101)	-176 (100)
Mexican	-45 (92)	-319 <b>**</b> (91)
Other Hispanic	6 (226)	-213 (213)
Not married	-229 ** (79)	-100 (78)
Kessner Index intermediate	-19 (87)	-123 (85)

TABLE A.5 (continued)

Explanatory Variables	Coefficients (\$): Newborns	Coefficients (\$): Newborns and Mothers
Mother Characteristics (continued)		
Kessner Index inadequate	599 <b>**</b> (108)	292 ** (106)
Kessner Index missing	672 ** (146)	654 ** (144)
Previous live births (number)	-115 <b>**</b> (30)	-128 <b>**</b> (29)
Pregnancy terminations of >20 weeks	495 ** (153)	678 ** (153)
R <sup>2</sup> Sample Size	.046 21,081	.045 23,787

SOURCE: Texas WIC/Medicaid birth event analysis file.

NOTE: The unit of observation is the birth event. Observations with Medicaid costs from birth to 60 days after birth \( \frac{\$200}{} \) are excluded.

<sup>\*(\*\*):</sup> Significant at the .05 (.01) level, two-tailed test.

<sup>&</sup>lt;sup>a</sup>In the case of multiple births, the binary "Male" is coded one if at least one of the newborns was a male.

# APPENDIX B

ESTIMATED REGRESSION COEFFICIENTS FOR MODEL TO ESTIMATE THE EFFECTS OF WIC PARTICIPATION ON BIRTHWEIGHT (GRAMS)

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TABLE B.1

ESTIMATED REGRESSION COEFFICIENTS FOR MODEL TO ESTIMATE
THE EFFECTS OF WIC PARTICIPATION ON BIRTHWEIGHT: FLORIDA
(Standard Errors in Parentheses)

Explanatory Variables	Coefficients (grams): Total Sample	Coefficients (grams): Gestational Age < 37 Weeks	Coefficients (grams): Gestational Age  > 37 Weeks
Intercept	3,308 **	2,569 **	3,412 **
	(19)	(73)	(18)
Prenatal WIC Participation	73 **	150 **	29 <b>**</b>
	(7)	(26)	(6)
Newborn Characteristics	128 **	65 **	142 ***
Male	(7)	(25)	(6)
Multiple birth	-983 **	-791 ***	-745 ***
	(23)	(48)	(25)
Mother Characteristics Age 18-19	12	14 (46)	-12 (12)
Age 20-34	(13) -12 (12)	-48 (44)	-37 *** (11)
Age 35 and over	-73 **	-178 *	-63 **
	(24)	(82)	(22)
Black	-189 **	-54	-151 **
	(8)	(31)	(7)
Hispanic	7 (13)	98 (54)	(11)
Other <sup>b</sup>	-117 **	197	-107 ***
	(40)	(136)	(37)
Not married	-57 ***	10	-55 <b>**</b>
	(8)	(31)	(7)
Kessner Index intermediate	-11	53	-19 ***
	(7)	(29)	(7)
Kessner Index inadequate	-195 ***	-92 **	-148 ***
	(11)	(35)	(10)
Kessner Index missing	-129 **	-237 *	-80 *
	(20)	(111)	(31)
Previous live births (number)	14 *** (3)	29 ** (10)	17 ** (3)
Education < 9 years	-53 <b>**</b>	0	-60 ***
	(17)	(63)	(15)
Education 9-11 years	-64 ***	-33	-70 **
	(12)	(46)	(11)
Education 12 years	-19	-19	-22 *
	(11)	(43)	(10)

TABLE B.1 (continued)

Explanatory Variables	Coefficients (grams): Total Sample	Coefficients (grams): Gestational Age < 37 Weeks	Coefficients (grams): Gestational Age  > 37 Weeks
Mother Characteristics (continued) Urban	-14	-75	-8
	(10)	(38)	(9)
Prenatal Care from Public Health Clinic	24 *	86 <b>*</b>	2
	(10)	(39)	(9)
R <sup>2</sup>	.11	.08	.09
Sample Size	31,732	4,093	26,795

SOURCE: Florida WIC/Medicaid newborn analysis file.

NOTE: The unit of observation is the newborn.

\*(\*\*) : Significant at the .05 (.01 level)

TABLE B.2

ESTIMATED REGRESSION COEFFICIENTS FOR MODEL TO ESTIMATE
THE EFFECTS OF WIC PARTICIPATION ON BIRTHWEIGHT: MINNESOTA
(Standard Errors in Parentheses)

Explanatory Variables	Coefficients (grams): Total Sample	Coefficients (grams): Gestational Age < 37 Weeks	Coefficients (grams): Gestational Age  > 37 Weeks
Intercept	3,370 **	2,183 ***	3,492 **
	(30)	(123)	(26)
Prenatal WIC Participation	51 **	138 **	16
	(12)	(49)	(11)
Newborn Characteristics Male	122 ** (11)	-8 (48)	132 •• (10)
Multiple birth	-921 **	-255 **	-761 **
	(34)	(73)	(38)
Mother Characteristics Age 18-19	-1	108	-41
	(24)	(97)	(22)
Age 20-34	-22	54	-65 ••
	(23)	(90)	(21)
Age 35 and over	-42	330 <b>•</b>	-94 **
	(38)	(147)	(34)
Black	-218 **	-123	-187 ***
	(20)	(72)	(18)
American Indian	129 ••	129	93 **
	(22)	(116)	(19)
Asian	-146 ** (27)	210 (115)	-189 ** (24)
Not married	39 ••	30	40 ••
	(12)	(54)	(11)
Kessner Index intermediate	-55 <b>**</b>	31	-52 **
	(13)	(60)	(11)
Kessner Index inadequate	238 ••	61	-165 **
	(20)	(72)	(18)
Kessner Index missing	-146 **	-128	-90 **
	(18)	(73)	(18)
Previous live births (number)	40 **	52 **	35 <b>**</b>
	(5)	(20)	(4)
Education < 9 years	-143 **	-37	-121 ••
	(34)	(134)	(30)
Education 9-11 years	-155 <b>**</b>	-126	-149 **
	(19)	(83)	(16)
Education 12 years	_84 ***	-14	-84 **
	(16)	(75)	(14)
Education Missing	-129 **	-223 *	-134 **
	(24)	(106)	(23)

TABLE B.2 (continued)

Explanatory Variables	Coefficients (grams): Total Sample	Coefficients (grams): Gestational Age < 37 Weeks	Coefficients (grams): Gestational Age    37 Weeks
Mother Characteristics (continued)			
Urban	-3	50	-5
	(12)	(55)	(11)
Pregnancy Terminations < 20 weeks	-31 **	-135 **	-8
	(8)	(31)	(7)
Pregnancy Terminations of > 20 weeks	-88 *	-115	-60
	(35)	(120)	(31)
R <sup>2</sup>	.118	.079	.103
Sample Size	11,547	973	10,022

SOURCE: Minnesota WIC/Medicaid newborn analysis file.

NOTE: The unit of observation is the newborn.

\*(\*\*): Significant at the .05 (.01 level)

ESTIMATED REGRESSION COEFFICIENTS FOR MODEL TO ESTIMATE
THE EFFECTS OF WIC PARTICIPATION ON BIRTHWEIGHT: NORTH CAROLINA
(Standard Errors in Parentheses)

Explanatory Variables	Coefficients (grams): Total Sample	Coefficients (grams): Gestational Age < 37 Weeks	Coefficients (grams): Gestational Age  > 37 Weeks
Intercept	3,272 ** (24)	2,197 ** (81)	3,398 ** (21)
Prenatal WIC Participation	117 ** (10)	238 ** (29)	42 ** (9)
Newborn Characteristics Male	112 ** (9)	90 ** (28)	125 ** (8)
Multiple birth	- <del>994</del> **	-776 **	-788 **
	(27)	(53)	(31)
Mother Characteristics Age 18-19	9 (16)	34 (50)	-20 (15)
Age 20-34	-12	3	-36 *
	(16)	(48)	(15)
Age 35 and over	-39	-39	-27
	(34)	(102)	(31)
Nonwhite	-174 **	-61	-146 **
	(10)	(35)	(9)
Not married	-6	51	-16
	(11)	(37)	(10)
Kessner Index intermediate	-117 **	107 **	47 **
	(9)	(36)	(8)
Kessner Index inadequate	-243 **	27	-169 **
	(17)	(52)	(16)
Kessner Index missing	-218 •••	503 ***	-116
	(25)	(45)	(80)
Previous Live Birth (number)	40 ••	58 **	31 **
	(4)	(13)	(4)
Pregnancy Terminations (number)	-50 ••	-143 **	-21 **
	(8)	(25)	(7)
Education <9 years	-138 **	117	-152 **
	(23)	(72)	(21)
Education 9-11 years	-94 ••	119 °	-113 **
	(16)	(54)	(14)
Education 12 years	.39 **	108 *	-46 **
	(15)	(50)	(13)

TABLE B.3 (continued)

Explanatory Variables	Coefficients (grams): Total Sample	Coefficients (grams): Gestational Age < 37 Weeks	Coefficients (grams): Gestational Age  > 37 Weeks
Mother Characteristics (continued) Education Missing	-41	-339	57
	(116)	(342)	(106)
Urban	-20 <b>*</b>	-68 •	-13
	(9)	(28)	(8)
R <sup>2</sup>	.109	.123	.081
Sample Size	20,688	3,625	17,063

SOURCE: North Carolina WIC/Medicaid newborn analysis file.

NOTE: The unit of observation is the newborn.

\*(\*\*): Significant at the .05 (.01 level)

TABLE B.4 ESTIMATED REGRESSION COEFFICIENTS FOR MODEL TO ESTIMATE
THE EFFECTS OF WIC PARTICIPATION ON BIRTHWEIGHT: SOUTH CAROLINA

THE EFFECTS OF WIC	Coefficients (grams): Total Sample		Coefficients (grams): Gestational Age    37 Weeks  3,366 **	-
planatory Variables		2,377 **	(29)	
	3,215 ** (32)	(114)	30 **	
tercept	113 **	259 **	(12)	
	(13)	(40)		#
renatal WIC Participation	()		104 **	11
	101 **	111 ** (38)	(10)	11
Newborn Characteristics	(11)	`	-725 **	11
Male	-958 **	-803 ** (74)	(40)	
i 1. Limb	(36)	(/4)		- 1
Multiple birth		-23	-6	- 1
or	28	(67)	(19)	1
Mother Characteristics Age 18-19	(21)	56	8	#
Me 10 -	45 *	(60)	(17)	//
Age 20-34	(19)	-92	23	Į.
Ago so	17	(136)	(36)	1
Age 35 and over	(40)	-67	-146 *	• '
Age 35 III	-162 **	(53)	(12)	
Nonwhite	(14)	50	-60 *	
Homman	-67 **	(50)	(12)	
Not married	(13)	71	-20	
	-11	(46)	(11)	
Kessner Index intermediate	(13)	39	-125	
	-144 •	(53)	(15	
Kessner Index inadequate	(17)	-95		8 **
1	-201	•• (205)	(4-	
Kessner Index missing	(42)	49	<b>1</b>	7 **
	-101	•• (98)	l ·	25)
Education <9 years	(28	-98	\ 4	62 **
1		(73)	)   '	18)
Education 9-11 years	(20	-54	1	-8 (17)
_	-3	1 70	n 1 '	(17)
Education 12 years	<b>\</b>	.38(		262 **
1		17 ** (21)		(74)
Education Missing		77)	ı <b>4</b>	-11 (10)
1		-3	39)	
Urban		(11)		.083 0.873
	.:	105		9,872
R <sup>2</sup>	11,	773		

SOURCE: South Carolina WIC/Medicaid newborn analysis file.

NOTE: The unit of observation is the newborn.

<sup>\*(\*\*):</sup> Significant at the .05 (.01 level).

TABLE B.5 ESTIMATED REGRESSION COEFFICIENTS FOR MODEL TO ESTIMATE THE EFFECTS OF WIC PARTICIPATION ON BIRTHWEIGHT: TEXAS (Standard Errors in Parentheses)

Explanatory Variables Intercept	Coefficients (gra Total Sample	: ms): C	oefficients (grams): Gestational Age < 37 Weeks	Coefficients (gran
Prenatal WIC Participation	3,126 •• (16)		2,261 ** (50)	≥ 37 Weeks
	77 •• (8)	77 **		(15)
Newborn Characteristics Male			(24)	25 •• (7)
Multiple birth	116 •• (8) -961 ••		110 •• (23) -893 ••	124 •• (7)
Mother Characteristics	(24)		(48)	-713 ••
Age 18-19				(27)
Age 20-34	52 ** (14) 51 **		118 •• (41)	10 (13)
Age 35 and over	(13) 95 ••		88 * (37)	12 (12)
Black, nonspanish	(25)		79 (68)	95 •• (23)
Mexican	-127 •• (11) 17		42 (32)	-130 •• (10)
Other Hispanic	(9)		(30)	5 (9)
Not married	(22) -34 ••		99 (75)	10 (20)
Kessner Index intermediate	(8)		26 (25)	-34 ** (7)
Kesaner Index inadequate	(9) -129 ••		140 •• (34)	-25 <b>**</b> (8)
Kessner Index missing	(11) -94 ••		133 •• (35)	-101 •• (10)
Previous live births (number)	(15) 23 ••	(	176 •• 34) 39 ••	-42 • (19)
Pregnancy terminations of > 20 weeks	(3) -76 ••		(9)	23 •• (3)
	(16)		9)	-45 ••
ple Size  CE: Texas WIC/Medicaid newborn analysis fi	.091 25,710	.13 4,78	7	.072

NOTE: The unit of observation is the newborn.

<sup>\*(\*\*):</sup> Significant at the .05 (.01 level).

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