

**Appendix 1. Between- and Within-Family Models (95% CI) of a) Term-Small for Gestational Age and b) Very Preterm of Children Born in Utah in 2009–2017, Children Conceived Through Medically Assisted Reproduction Compared With Naturally Conceived Children**

Between-family analysis				Within-family analysis		
Model 1 (Baseline)		Model 2 (birth order + multiple birth + child's sex)	Model 3 (Model 2 + maternal age, marital status, education, smoking, BMI, chronic hypertension)	Model 1 (Baseline)	Model 2 (birth order + multiple birth + child's sex)	Model 3 (Model 2 + maternal age, BMI)
<b>a) Term-SGA. Linear probability models (percentage change in the predicted probability)</b>						
<b>MAR as one category</b>				<b>MAR as one category</b>		
MAR	2.8(2.2 to 3.4)	0.6(0.0 to 1.3)	2.0(1.4 to 2.7)	3.7(2.6 to 4.8)	1.3(0.1 to 2.4)	1.40(0.2 to 2.6)
<b>By type of treatment</b>				<b>By type of treatment</b>		
FED	1.8(1.0 to 2.6)	0.6(-0.2 to 1.3)	2.2(1.4 to 2.9)	3.3(2.1 to 4.6)	1.4(0.1 to 2.7)	1.5(0.2 to 2.8)
AI or IUI	3.0(1.4 to 4.6)	0.6(-1.0 to 2.2)	1.9(0.3 to 3.5)	4.8(1.8 to 7.9)	1.9(-1.2 to 4.9)	2.0(-1.1 to 5.0)
ART	5.6(4.3 to 6.9)	0.9(-0.5 to 2.2)	1.7(0.4 to 3.1)	4.7(1.4 to 8.0)	-0.2(-3.6 to 3.1)	-0.2(-3.5 to 3.2)
<b>b) Very preterm. Linear probability models (percentage change in the predicted probability)</b>						
<b>MAR as one category</b>						
MAR	2.0(1.8 to 2.2)	0.6(0.3 to 0.8)	0.6(0.4 to 0.8)			
<b>By type of treatment</b>						
FED	1.1(0.9 to 1.4)	0.4(0.1 to 0.6)	0.4(0.1 to 0.6)			
AI or IUI	1.9(1.4 to 2.5)	0.6(0.1 to 1.2)	0.6(0.1 to 1.4)			
ART	4.3(3.9 to 4.7)	1.0(0.1 to 1.4)	1.0(0.6 to 1.4)			

Note: MAR refers to all children who were born after either of the following procedures: Artificial insemination or intrauterine insemination (AI or IUI); Assisted reproductive technology (ART); of Fertility enhancing drugs (FED). Term-SGA stands for ‘small for gestational age born after 37 weeks of gestation’. Very preterm refers to children born under 32 weeks of gestation. 95%CI are presented in parentheses.

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**Appendix 2. Odds Ratios From the Between-Family Logistic Regression Models (95% CI) on a) Low Birth Weight, b) Preterm, and c) Small for Gestational Age of Children Born in Utah in 2009–2017, Children Conceived Through Medically Assisted Reproduction Compared With Naturally Conceived Children**

	Model 1 (Baseline)	p value	Model 2 (birth order + multiple birth + child's sex)	p value	Model 3 (Model 2 + maternal age, marital status, education, smoking, BMI, chronic hypertension)	p value
<b>a) LBW</b>						
<b>MAR as one category</b>						
MAR	2.78(2.65 to 2.93)	<0.001	1.23(1.15 to 1.31)	<0.001	1.35(1.27 to 1.44)	<0.001
<b>By type of treatment</b>						
FED	1.96(1.82 to 2.10)	<0.001	1.21(1.12 to 1.32)	<0.001	1.36(1.25 to 1.48)	<0.001
AI or IUI	2.46(2.16 to 2.82)	<0.001	1.20(1.02 to 1.40)	0.028	1.30(1.10 to 1.52)	0.002
ART	5.22(4.83 to 5.65)	<0.001	1.26(1.14 to 1.40)	<0.001	1.35(1.22 to 1.50)	<0.001
<b>b) Preterm</b>						
<b>MAR as one category</b>						
MAR	2.56(2.44 to 2.69)	<0.001	1.26(1.18 to 1.33)	<0.001	1.32(1.25 to 1.41)	<0.001
<b>By type of treatment</b>						
FED	1.75(1.63 to 1.87)	<0.001	1.15(1.06 to 1.24)	0.001	1.22(1.13 to 1.32)	<0.001
AI or IUI	2.35(2.08 to 2.66)	<0.001	1.30(1.13 to 1.51)	<0.001	1.37(1.18 to 1.58)	<0.001
ART	4.99(4.62 to 5.37)	<0.001	1.45(1.31 to 1.60)	<0.001	1.52(1.38 to 1.68)	<0.001
<b>c) SGA</b>						
<b>MAR as one category</b>						
MAR	1.34(1.28 to 1.41)	<0.001	1.06(1.00 to 1.11)	0.012	1.20(1.13 to 1.26)	<0.001
<b>By type of treatment</b>						
FED	1.23(1.15 to 1.31)	<0.001	1.07(1.00 to 1.15)	0.039	1.25(1.16 to 1.33)	<0.001
AI or IUI	1.35(1.19 to 1.54)	<0.001	1.07(0.93 to 1.22)	0.335	1.19(1.04 to 1.36)	0.013
ART	1.62(1.48 to 1.77)	<0.001	1.12(1.02 to 0.92)	0.752	1.10(1.00 to 1.22)	0.053

Note: MAR refers to all children who were born after either of the following procedures: Artificial insemination or intrauterine insemination (AI or IUI); Assisted reproductive technology (ART); of Fertility enhancing drugs (FED). LBW stands for 'low birth weight', SGA stands for 'small for gestational age'. 95%CI are presented in parentheses.

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**Appendix 3. Between-Family and Within-Family Linear Models on Birth Weight of Children Born in Utah in 2009–2017**

Between-family analysis							Within-family analysis					
MAR as one category				By type of MAR treatment			MAR as one category			By type of MAR treatment		
	Model 1 (Baseline)	Model 2 (birth order + multiple birth + child's sex)	Model 3 (Model 2 + maternal age, marital status, education, BMI, chronic hypertension smoking)	Model 1 (Baseline)	Model 2 (birth order + multiple birth + child's sex)	Model 3 (Model 2 + maternal age, marital status, education, BMI, chronic hypertension smoking)	Model 1 (Baseline)	Model 2 (birth order + multiple birth + child's sex)	Model 3 (Model 2 + maternal age, BMI)	Model 1 (Baseline)	Model 2 (birth order + multiple birth + child's sex)	Model 3 (Model 2 + maternal age, BMI)
MAR (ref: NC)	-179***	-38***	-76***				-111***	-22**	-25**			
FED				-101***	-27***	-68***				-77***	-16	-18*
AI or IUI				-176***	-57***	-94***				-140***	-52 *	-56**
ART				-358***	-54***	-85***				-277***	-38	-43*
Females		-117***	-117***		-117***	-117***		-129***	-128***		-129***	-129***
Multiplicity (twins)		-925***	-926***		-922***	-925***		-871***	-867***		-867***	-867***
First-order birth		-83***	-59***		-83***	-58.28***		-80***	-69***		-79***	-71***
Maternal age (ref: 25-29)												
Maternal age 15-24			2			2			-3			-4
Maternal age 30-34			-14***			-13***			20			21
Maternal age 35-39			-37***			-37***			45			45
Maternal age 40+			-85***			-84***			-29			-30
Pre-pregnancy BMI (ref: normal (18.5-24.9))												
Underweight (<18.5)			-135***			-135***			9			8
Overweight (25.0-29.9)			70***			69***			23			23
Obesity (>=30)			89***			89***			45			43
Unknown			-54***			-54***			-320			-322***
Parental level of education (ref: both below tertiary)												
At least one parent has tertiary level			70***			70***						
Both unknown/missing			-20*			-20*						
Mother married at birth			74***			74***						
Unknown			-20			-26						
Smoking during pregnancy			-176***			-176***						
Chronic Hypertension			-264***			-264***						
Constant	3275***	3395***	3286***	3275***	3295***	3297.52***	3288***	3403***	3391***	3290***	3403***	3391***
Number of observations	248013	248013	248013	248013	248013	248013	11914	11914	11914	11914	11914	11914

\*\*\* P < 0.0001, \*\*P < 0.01, \*P < 0.05

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Note: Coefficients denote the difference in mean birth weight (in grams). High values for the “unknown” BMI category in the within-family analysis refer to the extremely low numbers (<10 for some treatment types).

**Appendix 4. Between-Family and Within-Family Linear Models on Gestational Age of Children Born in Utah in 2009–2017**

Between-family analysis							Within-family analysis								
MAR as one category				By type of MAR treatment			MAR as one category			By type of MAR treatment					
	Model 1 (Baseline)	Model 2 (birth order + multiple birth + child's sex)	Model 3 (Model 2 + maternal age, marital status, education, BMI, chronic hypertension smoking)		Model 1 (Baseline)	Model 2 (birth order + multiple birth + child's sex)	Model 3 (Model 2 + maternal age, marital status, education, BMI, chronic hypertension smoking)		Model 1 (Baseline)	Model 2 (birth order + multiple birth + child's sex)	Model 3 (Model 2 + maternal age, BMI)		Model 1 (Baseline)	Model 2 (birth order + multiple birth + child's sex)	Model 3 (Model 2 + maternal age, BMI)
MAR (ref: NC)	-4.6***	-1.4***	-1.8***						-1.1***	0.3	0.2				
FED					-2.5***	-0.9***	-1.2***						-0.4	0.4	0.3
AI or IUI					-4.4***	-2.0***	-2.4***						-0.5	0.3	0.2
ART					-9.6***	-2.4***	-2.8***						-5.8***	-0.5	-0.6
Females		0.6***	0.6***			0.6***	-117***			0.6**	0.6**			0.6**	0.6**
Multiplicity (twins)		-23.3***	-23.2***			-23.1***	-23.1***			-21.7***	-21.6***			-21.5***	-21.4***
First-order birth		1.4***	1.8***			1.5***	1.8***			1.2***	1.4***			1.2***	1.4***
Maternal age (ref: 25-29)															
Maternal age 15-24			-0.1*				-0.1*				-0.5				-0.5
Maternal age 30-34			-0.1				-0.1				0.3				0.3
Maternal age 35-39			-1.1***				-1.1***				0.3				0.3
Maternal age 40+			-2.7***				-2.6***				-3.8*				-3.8*
Pre-pregnancy BMI (ref: normal (18.5-24.9))															
Underweight (<18.5)			-1.5***				-1.5***				-0.6				-0.6
Overweight (25.0-29.9)			-0.1				-0.1				0.1				0.1
Obesity (>=30)			-0.9***				-0.9***				0				0
Unknown			-2.7***				-2.7***				-7.5***				-7.5***
Parental level of education (ref: both below tertiary)															
At least one parent has tertiary level			1.4***				1.4***								
Both unknown/missing			-0.5*				-0.5*								
Mother married at birth			0.8***				0.7***								
Unknown			-1.2**				-1.2**								
Smoking during pregnancy			-1.7***				-1.7***								
Chronic Hypertension			-8.5***				-8.5***								
Constant	270.4***	269.6***	268.7***		270.4***	269.6***	268.7***		268.5***	268.6***	268.6***		268.5***	268.6***	268.6***
Number of observations	248013	248013	248013		248013	248013	248013		11914	11914	11914		11914	11914	11914

\*\*\* P < 0.0001, \*\*P < 0.01, \*P < 0.05

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Note: Coefficients denote the difference in mean gestational age (in days). High values for the “unknown” BMI category in the within-family analysis refer to the extremely low numbers (<10 for some treatment types).

Appendix 5. Between-Family and Within-Family Linear Probability Models on Low Birth Weight of Children Born in Utah in 2009–2017

Between-family analysis							Within-family analysis					
MAR as one category				By type of MAR treatment			MAR as one category			By type of MAR treatment		
	Model 1 (Baseline)	Model 2 (birth order + multiple birth + child's sex)	Model 3 (Model 2 + maternal age, marital status, education, BMI, chronic hypertension smoking)	Model 1 (Baseline)	Model 2 (birth order + multiple birth + child's sex)	Model 3 (Model 2 + maternal age, marital status, education, BMI, chronic hypertension smoking)	Model 1 (Baseline)	Model 2 (birth order + multiple birth + child's sex)	Model 3 (Model 2 + maternal age, BMI)	Model 1 (Baseline)	Model 2 (birth order + multiple birth + child's sex)	Model 3 (Model 2 + maternal age, BMI)
MAR (ref: NC)	9.3***	1.8***	2.2***				4.8***	0.4	0.5			
FED				5.2***	1.3***	1.9***				3.5***	-0.5	0.6
AI or IUI				7.7***	1.6**	1.9***				2.2	-2.0	-1.8
ART				19.3***	3.0***	3.2***				15.1***	2.1	2.4
Females		1.1***	1.0***		1.1***	1.0***		2.1***	3.0***		2.1***	2.1***
Multiplicity (twins)		50.3***	50.2***		50.1***	50.0***		48.0***	47.9***		47.6***	47.3***
First-order birth		2.5***	2.2***		2.5***	2.2***		2.8***	2.1***		2.3***	2.1***
Maternal age (ref: 25-29)												
Maternal age 15-24			-0.5***			-0.5***			0.7			0.7
Maternal age 30-34			0.7***			0.7***			-1.3			-1.3
Maternal age 35-39			2.0***			1.9***			-3.1			-3.1
Maternal age 40+			3.7***			3.6***			1.1			1.0
Pre-pregnancy BMI (ref: normal (18.5-24.9))												
Underweight (<18.5)			3.3***			3.3***			-0.5			-0.6
Overweight (25.0-29.9)			-0.5***			-0.5***			0.7			0.6
Obesity (>=30)			-0.2			-0.1			-1.0			-1.0
Unknown			3.4***			3.4***			12.6***			12.5***
Parental level of education (ref: both below tertiary)												
At least one parent has tertiary level			-1.7***			-1.7***						
Both unknown/missing			0.8*			0.8*						
Mother married at birth			-1.6***			-1.6***						
Unknown			1.4*			1.4*						
Smoking during pregnancy			5.8***			5.8***						
Chronic Hypertension			10.8***			10.8***						
Constant	6.1***	3.4***	5.0***	6.1***	3.4***	5.0***	6.6***	3.1***	3.8***	6.5***	3.1***	3.9***
Number of observations	248013	248013	248013	248013	248013	248013	11914	11914	11914	11914	11914	11914

\*\*\* P &lt; 0.0001, \*\*P &lt; 0.01, \*P &lt; 0.05

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Note: Coefficients denote percentage point change in predicted probability of low birth weight. High values for the “unknown” BMI category in the within-family analysis refer to the extremely low numbers (<10 for some treatment types).

**Appendix 6. Between-Family and Within-Family Linear Probability Models on Preterm of Children Born in Utah in 2009–2017**

Between-family analysis							Within-family analysis					
MAR as one category				By type of MAR treatment			MAR as one category			By type of MAR treatment		
	Model 1 (Baseline)	Model 2 (birth order + multiple birth + child's sex)	Model 3 (Model 2 + maternal age, marital status, education, BMI, chronic hypertension smoking)	Model 1 (Baseline)	Model 2 (birth order + multiple birth + child's sex)	Model 3 (Model 2 + maternal age, marital status, education, BMI, chronic hypertension smoking)	Model 1 (Baseline)	Model 2 (birth order + multiple birth + child's sex)	Model 3 (Model 2 + maternal age, BMI)	Model 1 (Baseline)	Model 2 (birth order + multiple birth + child's sex)	Model 3 (Model 2 + maternal age, BMI)
MAR (ref: NC)	10.1***	2.1***	2.4***				4.3***	-0.6	-0.5			
FED				5.1***	1.1***	1.4***				2.4***	-0.8	-0.7
AI or IUI				8.8***	2.5***	2.7***				3.3*	-1.0	-0.7
ART				22.0***	4.6***	4.8***				16.2***	0.8	1.1
Females		-1.0***	-1.0***		-1.0***	-1.0***		-1.5***	-1.5***		-1.5***	-1.5***
Multiplicity (twins)		54.2***	54.0***		53.8***	53.7***		57.7***	57.6***		57.4***	57.2***
First-order birth		1.2***	0.9***		1.1***	0.9***		2.1***	1.6*		2.1***	1.5*
Maternal age (ref: 25-29)												
Maternal age 15-24			<0.1			<0.1			1.6			1.6
Maternal age 30-34			0.5***			0.5***			-0.7			-0.7
Maternal age 35-39			0.3***			2.9***			0.6			0.6
Maternal age 40+			4.5***			4.3***			6.3			6.3
Pre-pregnancy BMI (ref: normal (18.5-24.9))												
Underweight (<18.5)			1.8***			1.8***						
Overweight (25.0-29.9)			0.3*			0.3*						
Obesity (>=30)			1.4***			1.4***						
Unknown			4.5***			4.5***						
Parental level of education (ref: both below tertiary)												
At least one parent has tertiary level			-1.8***			-1.8***						
Both unknown/missing			1.6***			1.6***						
Mother married at birth			-1.1***			-1.1***						
Unknown			3.0***			3.0***						
Smoking during pregnancy			2.9***			2.9***						
Chronic Hypertension			11.2***			11.2***						
Constant	7.9***	6.8***	7.6***	7.9***	6.8***	7.6***	9.8***	7.9***	8.0***	9.8***	7.9***	8.0***
Number of observations	248013	248013	248013	248013	248013	248013	11914	11914	11914	11914	11914	11914

\*\*\* P < 0.0001, \*\*P < 0.01, \*P < 0.05

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Note: Coefficients denote percentage point change in predicted probability of preterm. High values for the “unknown” BMI category in the within-family analysis refer to the extremely low numbers (<10 for some treatment types).

**Appendix 7. Between-Family and Within-Family Linear Probability Models on Small for Gestational Age of Children Born in Utah in 2009–2017**

Between-family analysis							Within-family analysis					
MAR as one category				By type of MAR treatment			MAR as one category			By type of MAR treatment		
	Model 1 (Baseline)	Model 2 (birth order + multiple birth + child's sex)	Model 3 (Model 2 + maternal age, marital status, education, BMI, chronic hypertension smoking)	Model 1 (Baseline)	Model 2 (birth order + multiple birth + child's sex)	Model 3 (Model 2 + maternal age, marital status, education, BMI, chronic hypertension smoking)	Model 1 (Baseline)	Model 2 (birth order + multiple birth + child's sex)	Model 3 (Model 2 + maternal age, BMI)	Model 1 (Baseline)	Model 2 (birth order + multiple birth + child's sex)	Model 3 (Model 2 + maternal age, BMI)
MAR (ref: NC)	3.3***	0.7*	2.0***				3.7***	1.6**	1.7**			
FED				2.2***	0.8*	2.2***				3.3***	1.6**	1.8**
AI or IUI				3.4***	0.9	1.9*				4.8***	2.1	2.2
ART				5.8***	0.5	1.3*				4.9***	0.3	0.4
Females		-0.1	-0.1		-0.09	-0.1		1.3*	1.3*		1.3*	1.3*
Multiplicity (twins)		14.7***	14.7***		14.8***	14.8***		14.1***	13.9***		14.3***	14.2***
First-order birth		4.9***	4.3***		4.9***	4.3***		4.2***	3.8***		4.3***	3.8***
Maternal age (ref: 25-29)												
Maternal age 15-24			-0.8***			-0.8***			0.5			0.5
Maternal age 30-34			1.3***			1.3***			0.5			0.5
Maternal age 35-39			1.4***			1.4***			-2.3			-2.3
Maternal age 40+			2.3**			2.4**			-4.2			-4.2
Pre-pregnancy BMI (ref: normal (18.5-24.9))												
Underweight (<18.5)			5.7***			5.68***			-3.0			-3.0
Overweight (25.0-29.9)			-2.5***			-2.53***			-0.5			-0.5
Obesity (>=30)			-3.3***			-3.33***			-2.2			-2.2
Unknown			0.7			0.27			6.6			6.6
Parental level of education (ref: both below tertiary)												
At least one parent has tertiary level			-2.0***			-2.0***						
Both unknown/missing			1.4**			1.4**						
Mother married at birth			-3.3***			-3.3***						
Unknown			-1.8			-2.0						
Smoking during pregnancy			9.5***			9.5***						
Chronic Hypertension			3.7***			3.7***						
Constant	11.4***	8.2***	12.4***	11.4***	8.2***	12.4***	9.0***	6.7***	7.5***	9.0***	6.7***	7.5***
Number of observations	248013	248013	248013	248013	248013	248013	11914	11914	11914	11914	11914	11914

\*\*\* P < 0.0001, \*\*P < 0.01, \*P < 0.05

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Note: Coefficients denote percentage point change in predicted probability of small for gestational age. High values for the “unknown” BMI category in the within-family analysis refer to the extremely low numbers (<10 for some treatment types).

**Appendix 8. Between-Family and Within-Family Models of Birth Outcomes of Children Born in Utah in 2009-2017, Children Conceived Through Medically Assisted Reproduction Compared With Naturally Conceived Children, Singletons Only (95% CI)**

Between-family analysis		Within-family analysis	
Model 3 (birth order, child's sex, maternal age, marital status, education, smoking, BMI, chronic hypertension)		Model 3 (birth order, child's sex, maternal age, BMI)	
a) Birth weight (g). Linear models			
MAR as one category			
MAR	-84(-93 to -74)	-29(-46 to -13)	
By type of treatment			
FED	-75(-87 to -63)	-23(-42 to -5)	
AI or IUI	-98(-123 to -73)	-68(-112 to -24)	
ART	-102(-123 to -81)	-31(-79 to 17)	
b) Gestational age (days). Linear models			
MAR as one category			
MAR	-1.9(-2.2 to -1.7)	0.1(-0.3 to 0.5)	
By type of treatment			
FED	-1.4(-1.7 to -1.2)	0.2(-0.3 to 0.6)	
AI or IUI	-2.5(-3.1 to -1.9)	-0.1(-1.2 to 1.0)	
ART	-3.1(-3.6 to -2.6)	-0.3(-1.5 to 0.9)	
c) LBW. Linear probability models (percentage change in the predicted probability)			
MAR as one category			
MAR	2.6(2.1 to 3.0)	0.7(-0.1 to 1.6)	
By type of treatment			
FED	2.3(1.8 to 2.9)	0.9(0.0 to 1.8)	
AI or IUI	2.1(1.0 to 3.2)	-0.7(-3.0 to 1.5)	
ART	3.6(2.6 to 4.5)	0.9(-1.6 to 3.4)	
d) Preterm. Linear probability models (percentage change in the predicted probability)			
MAR as one category			
MAR	2.7(2.2 to 3.2)	-0.1(-1.1 to 0.9)	
By type of treatment			
FED	1.7(1.1 to 2.3)	-0.2(-1.3 to 0.9)	
AI or IUI	3.5(2.3 to 4.8)	0.5(-2.2 to 3.1)	
ART	5.1(4.1 to 6.2)	<0.1(-2.9 to 2.9)	
e) SGA. Linear probability models (percentage change in the predicted probability)			
MAR as one category			
MAR	2.1(1.4 to 2.7)	1.6(0.5 to 2.6)	
By type of treatment			
FED	2.1(1.4 to 2.9)	1.5(0.3 to 2.7)	
AI or IUI	1.9(0.3 to 3.4)	3.3(0.4 to 6.2)	
ART	1.9(0.6 to 3.2)	0.2(-2.9 to 3.4)	

Note: MAR refers to all children who were born after either of the following procedures: Artificial insemination or intrauterine insemination (AI or IUI); Assisted reproductive technology (ART); of Fertility enhancing drugs (FED). LBW stands for 'low birth weight', SGA stands for 'small for gestational age'. 95%CI are presented in parentheses.

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