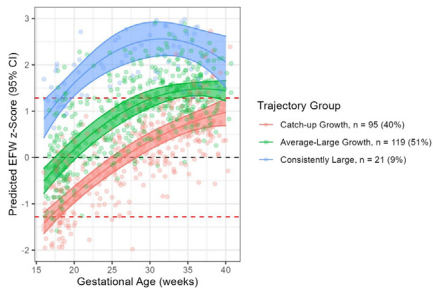**SUPPLEMENTAL FIGURE 1**
Univariate EFW trajectories among LGA births in the LIFECODES Fetal Growth Study. *Red dashed lines* indicate lines representing LGA (*z*-score = 1.28) and SGA (*z*-score = -1.28) cut points. *Black dashed line* indicates average growth (*z*-score = 0). *Abbreviations: EFW* = estimated fetal weight; *LGA* = large-for-gestational age; *SGA* = small-for-gestational age.

Bommarito. Fetal growth trajectories among large-for-gestational age births. Am J Obstet Gynecol 2022.

Select demographics, pregnancy characteristics, and birth outcomes among all AGA births in the underlying LIFECODES cohort and the AGA births selected in the LIFECODES Fetal Growth Study

	Median (25th, 75th percentile) or N (%)	
	All AGA births in LIFECODES (N = 2,480)	AGA births selected (N = 411)
Age, years	32.6 (28.5, 36.3)	32.4 (28.8, 36.2)
Education		
High school or less	248 (11)	49 (12)
Some college or associate degree	376 (17)	89 (22)
Bachelor's degree or greater	1648 (73)	268 (66)
Missing	208	5
Race and ethnicity		
Non-Hispanic white	1401 (58)	243 (59)
Non-Hispanic Black	343 (14)	55 (13)
Hispanic	391 (16)	63 (15)
Other	269 (11)	50 (12)
Missing	78	0
Health insurance		
Private	1769 (72)	298 (74)
Public	682 (28)	107 (26)
Missing	29	6
Pre-pregnancy BMI, kg/m^2	24.8 (21.6, 29.5)	24.8 (21.5, 29.2)
Alcohol consumption in pregnancy		
No	2273 (93)	377 (93)
Yes	179 (7)	29 (7)
Missing	28	5
Smoking in pregnancy		
No	2301 (93)	379 (92)
Yes	174 (7)	32 (8)
Missing	5	0
Primiparous		
No	1483 (60)	254 (62)
Yes	997 (40)	157 (38)
Infant sex[e]		
Female	1256 (51)	199 (48)
Male	1222 (49)	212 (52)
Missing	2	0
Gestational age at delivery, weeks	39.0 (37.7, 39.7)	39.0 (37.9, 39.7)
Birthweight, kg	3260 (2962, 3540)	3245 (2965, 3532)

Abbreviations: AGA = appropriate-for-gestational age; *BMI* = body mass index.

Bommarito. Fetal growth trajectories among large-for-gestational age births. Am J Obstet Gynecol 2022.

Select demographics, pregnancy characteristics, and birth outcomes among all LGA births in the underlying LIFECODES cohort and the LGA births selected in the LIFECODES Fetal Growth Study

	Median (25th, 75th percentile) or N (%)	
	All LGA births in LIFECODES (N = 283)	LGA births selected (N = 241)
Age, years	33.7 (29.6, 37.4)	33.7 (29.6, 37.3)
Education		
High school or less	33 (12)	30 (13)
Some college or associate degree	37 (14)	36 (15)
Bachelor's degree or greater	201 (74)	171 (72)
Missing	12	4
Race and ethnicity		
Non-Hispanic white	190 (71)	161 (71)
Non-Hispanic Black	33 (12)	29 (13)
Hispanic	45 (17)	38 (17)
Other	15	13
Health insurance		
Private	212 (76)	177 (74)
Public	67 (24)	62 (26)
Missing	4	2
Pre-pregnancy BMI, kg/m^2	26.9 (23.3, 32.8)	27.0 (23.4, 32.5)
Missing	6	0
Alcohol consumption in pregnancy		
No	272 (97)	234 (97)
Yes	9 (3)	6 (3)
Missing	2	0
Smoking in pregnancy		
No	275 (98)	236 (98)
Yes	7 (2)	5 (2)
Missing	1	0
Primiparous		
No	202 (71)	171 (71)
Yes	81 (29)	70 (29)
Infant sex[e]		
Female	96 (34)	82 (34)
Male	187 (66)	159 (66)
Gestational age at delivery, weeks	38.9 (37.9, 39.6)	38.9 (38.0, 39.6)
Birthweight, kg	4130 (3930, 4281)	4140 (3941, 4300)

Abbreviations: BMI = body mass index; LGA = large-for-gestational age

Bommarito. Fetal growth trajectories among large-for-gestational age births. Am J Obstet Gynecol 2022.

SUPPLEMENTAL TABLE 3
Statistical criteria for the 4-group solution of multivariate trajectory models among parent-child pairs with an LGA birth

Group	Name	n	%	Average posterior inclusion probability	Odds of correct classification
1	Catch-up Growth	28	11.9	0.94	103.7
2	Proportional AC:FL Growth	67	28.5	0.89	17.6
3	Disproportional AC:FL Growth	96	40.9	0.84	8.6
4	Consistently Large	44	18.7	0.95	76.8

Bommarito. Fetal growth trajectories among large-for-gestational age births. Am J Obstet Gynecol 2022.

SUPPLEMENTAL TABLE 4
Demographics, pregnancy characteristics, and birth outcomes among multivariate fetal growth trajectories among parent-child pairs with an LGA birth in the LIFECODES Fetal Growth Study using a case-weight approach

	Catch-up Growth	Proportional AC:FL Growth	Disproportional AC:FL Growth	Consistently Large
Age, years	32.0 (27.2, 37.1)	32.2 (27.7, 37.2)	34.5 (30.3, 37.5)	33.6 (31.6, 37.3)
Education				
High school or less	17	18	10	8
Some college or associate degree	26	20	10	13
Bachelor's degree or greater	57	63	80	78
Race and ethnicity				
Non-Hispanic white	53	56	79	67
Non-Hispanic Black	18	19	4	16
Hispanic	19	20	15	11
Other	10	5	3	6
Health insurance				
Private	71	65	80	75
Public	29	35	20	25
Pre-pregnancy BMI, kg/m^2	27.4 (23.7, 32.4)	28.9 (24.1, 34.4)	25.8 (22.7, 31.1)	27.1 (22.7, 31.4)
Height, inches	65 (62, 67)	65 (63, 67)	65 (63, 67)	65 (64, 67)
Alcohol consumption in pregnancy				
No	100	98	95	99
Yes	0	2	5	1
Smoking in pregnancy				
No	100	98	97	97
Yes	0	2	3	3
Primiparous				
No	74	73	66	75
Yes	26	27	34	25
ART				
No	89	92	80	90
Yes	11	8	20	10

Bommarito. Fetal growth trajectories among large-for-gestational age births. Am J Obstet Gynecol 2022.

SUPPLEMENTAL TABLE 4
Demographics, pregnancy characteristics, and birth outcomes among multivariate fetal growth trajectories among parent-child pairs with an LGA birth in the LIFECODES Fetal Growth Study using a case-weight approach (continued)

	Catch-up Growth	Proportional AC:FL Growth	Disproportional AC:FL Growth	Consistently Large
Preeclampsia				
No	90	96	94	96
Yes	10	4	6	4
Glucose control				
Normal glucose metabolism	41	65	67	73
Mild carbohydrate intolerance	11	10	11	13
Gestational diabetes	14	11	6	3
Pre-gestational diabetes	34	14	16	11
Type of pre-existing diabetes				
Type 1	81	59	54	70
Type 2	19	41	46	30
Infant sex				
Female	37	42	31	28
Male	63	58	69	72
Gestational age at delivery, weeks	39.3 (37.9, 40.1)	38.9 (38.4, 39.6)	38.9 (37.9, 39.4)	38.9 (38.0, 39.5)
Birthweight z-score	1.69 (1.42, 1.93)	1.64 (1.46, 1.96)	1.76 (1.51, 2.04)	1.73 (1.52, 2.25)
Birthweight, kg	4174 (4049, 4328)	4107 (3965, 4273)	4167 (3916, 4306)	4137 (3929, 4391)
Birthweight - length ratio, gm/cm	80.6 (77.4, 83.7)	78.6 (76.7, 81.8)	79.3 (75.8, 82.1)	78.9 (75.8, 82.8)
Delivery via C-section				
No	50	45	36	53
Yes	50	55	64	47
Delivery via unscheduled C-section				
No	54	64	61	55
Yes	46	36	39	45
NICU Admission				
No	66	83	80	85
Yes	34	17	20	15
Length of NICU Stay, days	4 (3, 12)	4 (3, 5)	7 (4, 16)	3 (2, 5)

Note: n = 4 missing education, n = 2 missing health insurance, n = 2 missing pre-pregnancy BMI, n = 1 missing alcohol consumption during pregnancy, n = 17 missing measures of glucose control, n = 14 missing birthweight-length ratio, n = 1 missing delivery via C-section, n = 5 missing delivery via unscheduled C-section, n = 5 missing NICU admission. Other race and ethnicity includes Asian (n = 5), More than one race (n = 5) and Other (n = 2). Public insurance category includes those using Medicaid/Mass Health/SSI (n = 61) and Self pay (n = 1). Type of pregestational diabetes only displayed for individuals diagnosed with pregestational diabetes (n = 36). Unscheduled C-section only displayed among individuals with a C-section delivery (n = 131). Length of NICU stay only calculated among individuals with a known NICU admission (n = 46).

Abbreviations: ART = assisted reproductive technologies, *BMI* = body mass index, *LGA* = large-for-gestational age, *NICU* = neonatal intensive care unit

Bommarito. Fetal growth trajectories among large-for-gestational age births. Am J Obstet Gynecol 2022.

SUPPLEMENTAL TABLE 5
Comparison of trajectory group membership with macrosomia among babies born LGA

	Macrosomia[a]	
	No	Yes
Group 1: Catch-up Growth	4 (14)	24 (86)
Group 2: Proportional AC:FL Growth	20 (30)	47 (70)
Group 3: Disproportional AC:FL Growth	32 (33)	64 (67)
Group 4: Consistently Large	12 (27)	32 (73)

[a] Macrosomia defined as birthweight > 4000 g.

Bommarito. Fetal growth trajectories among large-for-gestational age births. Am J Obstet Gynecol 2022.

SUPPLEMENTAL TABLE 6
Demographics, pregnancy characteristics, and birth outcomes in univariate EFW trajectories among parent-child pairs with an LGA birth in the LIFECODES Fetal Growth Study

	Median (25th, 75th percentile) or N (%)		
	Catch-up Growth (N = 95)	Average-Large Growth (N = 119)	Consistently Large (n = 21)
Age, years	32.9 (27.7, 37.3)	33.8 (29.8, 37.4)	33.6 (32.5, 37.3)
Education			
High school or less	14 (15)	14 (12)	2 (10)
Some college or associate degree	19 (20)	15 (13)	2 (10)
Bachelor's degree or greater	61 (65)	87 (75)	17 (81)
Race and ethnicity			
Non-Hispanic white	60 (63)	81 (68)	15 (71)
Non-Hispanic Black	11 (12)	16 (13)	2 (10)
Hispanic	17 (18)	19 (16)	2 (10)
Other	7 (7)	3 (3)	2 (10)
Health insurance			
Private	67 (71)	89 (75)	15 (75)
Public	28 (29)	29 (25)	5 (25)
Pre-pregnancy BMI, kg/m^2	26.6 (23.7, 31.9)	27.5 (23.3, 32.8)	26.6 (22.7, 32.5)
Height, inches	66 (63, 68)	65 (64, 67)	66 (64, 67)
Alcohol consumption in pregnancy			
No	94 (99)	113 (96)	21 (100)
Yes	1 (1)	5 (4)	0 (0)
Smoking in pregnancy			
No	95 (100)	114 (96)	21 (100)
Yes	0 (0)	5 (4)	0 (0)
Primiparous			
No	65 (68)	85 (71)	17 (81)
Yes	30 (32)	34 (29)	4 (19)

Bommarito. Fetal growth trajectories among large-for-gestational age births. Am J Obstet Gynecol 2022. (continued)

Demographics, pregnancy characteristics, and birth outcomes in univariate EFW trajectories among parent-child pairs with an LGA birth in the LIFECODES Fetal Growth Study (continued)

	Median (25th, 75th percentile) or N (%)		
	Catch-up Growth (N = 95)	Average-Large Growth (N = 119)	Consistently Large (n = 21)
ART			
No	84 (88)	100 (84)	19 (90)
Yes	11 (12)	19 (16)	2 (10)
Preeclampsia			
No	90 (95)	113 (95)	19 (90)
Yes	5 (5)	6 (5)	2 (10)
Glucose control			
Normal glucose metabolism	54 (64)	71 (63)	15 (71)
Mild carbohydrate intolerance	7 (8)	16 (14)	1 (5)
Gestational diabetes	9 (11)	9 (8)	0 (0)
Pre-gestational diabetes	15 (18)	16 (14)	5 (24)
Type of pre-gestational diabetes			
Type 1	12 (80)	8 (50)	3 (60)
Type 2	3 (20)	8 (50)	2 (40)
Infant sex			
Female	31 (33)	44 (37)	6 (29)
Male	64 (67)	75 (63)	15 (71)
Gestational age at delivery, weeks	39.3 (38.4, 40.3)	38.9 (37.9, 39.4)	38.4 (37.0, 39.0)
Birthweight z-score	1.64 (1.47, 1.94)	1.77 (1.51, 2.06)	1.94 (1.63, 2.57)
Birthweight, kg	4150 (3969, 4310)	4150 (3915, 4253)	4119 (3960, 4455)
Birthweight - length ratio, gm/cm	79.7 (76.9, 83.4)	79.3 (76.1, 81.9)	79.1 (74.7, 85.1)
Delivery via C-section			
No	48 (51)	46 (39)	9 (43)
Yes	47 (49)	72 (61)	12 (57)
Delivery via unscheduled C-section			
No	24 (53)	45 (64)	7 (64)
Yes	21 (47)	25 (36)	4 (36)
NICU Admission			
No	72 (77)	95 (81)	17 (89)
Yes	22 (23)	22 (19)	2 (11)
Length of NICU Stay, days	5 (4, 16)	4 (3, 10)	-

Abbreviations: AGA = appropriate-for-gestational age, ART = assisted reproductive technologies, BMI = body mass index, LGA = large-for-gestational age, NICU = neonatal intensive care unit.

Note: n = 4 missing education, n = 2 missing health insurance, n = 2 missing pre-pregnancy BMI, n = 1 missing alcohol consumption during pregnancy, n = 17 missing measures of glucose control, n = 14 missing birthweight-length ratio, n = 1 missing delivery via C-section, n = 5 missing delivery via unscheduled C-section, n = 5 missing NICU admission. Other race and ethnicity includes Asian (n = 5), More than one race (n = 5) and Other (n = 2). Public insurance category includes those using Medicaid/Mass Health/SSI (n = 61) and Self pay (n = 1). Type of pregestational diabetes only displayed for individuals diagnosed with pregestational diabetes (n = 36). Unscheduled C-section only displayed among individuals with a C-section delivery (n = 131). Length of NICU stay only calculated among individuals with a known NICU admission (n = 46).

Bommarito. Fetal growth trajectories among large-for-gestational age births. Am J Obstet Gynecol 2022.

SUPPLEMENTAL TABLE 7
N (%) comparing univariate and multivariate trajectory group membership among babies born LGA

		Univariate Trajectory Group		
		Catch-up Growth	Average-Large Growth	Consistently Large
Multivariate Trajectory Group	Catch-up Growth	27 (28)	1 (1)	0 (0)
	Proportional AC:FL Growth	39 (41)	28 (24)	0 (0)
	Disproportional AC:FL Growth	29 (31)	66 (55)	1 (5)
	Consistently Large	0 (0)	24 (20)	20 (95)

Bommarito. Fetal growth trajectories among large-for-gestational age births. Am J Obstet Gynecol 2022.