Table S1: Postnatal growth in full-term SGA infants related to: a) adiposity; b) insulin resistance; c) blood pressure and d) lipid profiles. Studies are ordered by study design and age at outcome assessment.

a)	Timing of	Ν	Age at	Summary	SGA vs.	Comments
Adiposity	exposure (noture)	SGA	outcome	result	AGA	
Pandomisod	(nature) controlled tria	le			controls	
Singhal	1. B-9mo	1.	1. 6-8y	++		In both studies, the enriched
2010 ^M	1. 0-9110	1. 299	1. 0-8y	(% body fat)		formula increased WT and HT
(22)	2. B-6mo	235		(78 DOUY TAL)		gains and later fat mass
(22)	(Nutrient	2.	2. 5-7y	0 (BMI)		Faster WT and HT growth were
	enriched	2. 246	2. J-7y	++ (Total fat		associated with later fat mass
	formula)	240		mass)		
Observation	al studies (n=14	1)		110337		
Soto 2003 ^M	B-1y	85	1y	++		WT gain, but not HT gain, was
(15)	(WT, HT	00	-1	(BMI)	(BMI)	positively associated with BMI
(=0)	gain)			(2)	(2)	
Iniguez	B-2y	65	2y	++		WT gain was positively
2004 ^L (28)	(WT gain)			(BMI)	(BMI)	associated with BMI
Taal 2013 ^M	B-2y, 2-4y	191	2y, 4y	++		WT gain was positively
(36)	(WT, HT)			(BMI at 4y)		associated with fat mass at 2y
						and BMI at 4y
Ibañez	B-2y	29	2y, 4y	0		WT gain between 0-2y was not
2006 ^м (38)	2-4y			(BMI)		associated with higher BMI
	(WT gain)					(adjusted for height)
Mohn	B-4y	35	4у	++	0	WT gain was positively
2007 ^L (35)	(WT gain)			(BMI)	(BMI)	associated with BMI
Deng 2011 ^M	В-бу	67	бу	+		Trend to higher BMI in children
(33)	(WT <i>,</i> HT)			(BMI)	(BMI)	with catch-up growth.
Uçar 2014 [∟]	B-6.5y	31	6.5y	++		WT gain was positively
(29)	(WT <i>,</i> HT			(BMI)		associated with BMI in girls
	gain)					
Miras	B-6.5y	49	6.5y	++		WT gain was positively
2010 ^M (30)	(WT gain)			(BMI)	(BMI)	associated with BMI
Evagelidou	В-7у	35	7у	0		WT gain was not associated with
2007 ^M (37)	(WT gain)			(BMI)		BMI
Ibañez	В-7у	56	7у	0		WT gain was not associated with
2009 ^M (39)	(WT gain)			(BMI)		BMI
Torro	B-8y	52	8y	++	0	WT gain was positively
Torre 2008 ^M (31)	в-8у (WT, HT,	52	оу	++ (BMI)	(BMI)	associated with BMI
2000 (21)	(WT, ПТ, ВМІ)			(וואוט)		
Cianfarani	B-8.5y	82	8.5y	++		HT gain was positively associated
2003 ^M (16)	(HT gain)		,	(BMI)		with BMI
Kramer	B-6mo	1247	6mo,	+		WT gain was not significantly
2014 ^M (34)	6mo-6.5y		6.5y,	(BMI)	(BMI)	associated with adiposity
	6.5y-11.5y		11.5y	-	- •	(adjusted for parental height)
	(WT gain)		•			
Ezzahir	B-1y	127	21y	++	+	BMI gain, especially after the
2005 ^M (32)	B-2y		-	(BMI)	(BMI)	first year of life, was positively
	B-6y			-	- •	associated with adiposity
	(BMI gain)					

Beltrand	B-4mo	94	4mo, 1y	0		WT gain was not associated with
2009 ^L (40)	4mo-1y (WT gain)			(% body fat)		% body fat
Ibañez	B-2y	29	2y, 4y	++ (% body	++ (% body	WT gain between 0-2y was
2006 ^M (38)	2-4y			fat)	fat)	positively associated with
	(WT gain)					adiposity and fat gains between
						2-4y (adjusted for height)
Mohn	B-4y	35	4y	++	0	WT gain was positively
2007 ^L (35)	(WT gain)			(% body fat)	(% body fat)	associated with BMI and % fat mass
Kramer	B-6mo	1247	6mo,	+		WT gain was not significantly
2014 ^M (34)	6mo-6.5y		6.5y,	(% body fat)	(% body fat)	associated with adiposity
	6.5y-11.5y		11.5y			(adjusted for parental heights)
	(WT gain)					
Leunissen	B-21.5y	71	21.5y	0 (% body fat)		WT gain was not significantly
2008 ^H (41)	(WT gain)					associated with adiposity
						(adjusted for height)
Observation	al studies (n=6)) - Fat or	lean mass			
Amador-	B-1y	44	1y	++		WT gain was positively
Licona	(WT gain)			(Abdo. fat)		associated with abdominal fat
2007 ^L (43)						
Taal 2013 [™]	B-2y, 2-4y	191	2y, 4y	++		WT gain was positively
(36)	(WT <i>,</i> HT)			(Total fat mass		associated with fat mass at 2y
				at 2y)		and BMI at 4y
Ibañez	B-2y	29	2y, 4y	++ (Abdo. fat)	++ (Abdo.	WT gain between 0-2y was
2006 ^M (38)	2-4y			(Lean mass)	fat)	positively associated with
	(WT gain)				(Lean	adiposity and fat gains between
					mass)	2-4y (adjusted for height)
Ibañez	В-7у	56	7у	++ (Total fat &		WT gain was positively
	(WT gain)			Lean mass)		associated with fat and lean
2009 ^M (39)	(mass, and also subcutaneous and
	(viccoral fat
	(visceral fat
2009 ^M (39) Bavdekar	B-8y	165	8γ	++	++	WT gain was positively
2009 ^M (39)				++ (SS/TR)	++ (SS/TR)	
2009 ^M (39) Bavdekar 1999 ^M (44) Leunissen	B-8y	165	8y 21y			WT gain was positively
2009 ^M (39) Bavdekar 1999 ^M (44)	B-8y (WT gain)			(SS/TR)		WT gain was positively associated with fat mass
2009 ^M (39) Bavdekar 1999 ^M (44) Leunissen	B-8y (WT gain) B-21y			(SS/TR) 0 (Total fat		WT gain was positively associated with fat mass WT gain was positively

b) Insulin resistance	Timing of exposure (nature)	N SGA	Age at outcome	Summary result	SGA vs. AGA controls	Comment
Observational st						
Amador-Licona 2007 ^L (43)	B-1y (WT gain)	44	1у	0 (HOMA-IR)		WT gain was not associated with IR
Beltrand 2009 ^L (40)	B-4mo 4mo-1y (WT gain)	94	1y	0 (Fasting insulin)		WT gain was not associated with IR
Soto 2003 ^M (15)	B-1y (WT, HT gain)	85	1y	++ (Fasting insulin)	++ (Fasting insulin)	Catch up growth was associated with higher IR (adjusted for BMI)
Mericq 2005 ^M (47)	B-3y (WT gain)	55	Зу	++ (HOMA-IR)	++ (HOMA-IR)	WT gain was positively associated with IR
lbañez 2006 ^M (38)	B-2y 2-4y (WT gain)	29	2ү, Зү, 4ү	++ (HOMA- IR @4y)	(HOMA-IR @2y) ++ (HOMA- IR @4y)	WT gain between 0-2y was positively associated with change in IR between 2-4y
Mohn 2007 ^L (35)	B-4y (WT gain)	35	4у	++ (HOMA-IR)	++ (HOMA-IR)	WT gain was positively associated with IR
Deng 2012 ^M (45)	B-6y (HT, BMI gain)	111	бу	++ (HOMA-IR)	++ (HOMA-IR)	HT & BMI gains were positively associated with IR (adjusted for BMI)
Deng 2011 ^M (33)	B-6y (HT gain)	67	бу	++ (HOMA-IR)	++ (HOMA-IR)	HT gain was positively associated with IR (adjusted for BMI).
Miras 2010 ^M (30)	B-6.5y (WT gain)	49	6.5y	0 (HOMA-IR)	0 (HOMA-IR)	No differences between groups (adjusted for BMI)
Uçar 2014 ^L (29)	B-6.5y (WT gain)	31	6.5y	++ (OGTT)	++ (OGTT)	SGA girls with premature adrenarche had higher IR than AGA (adjusted for BMI)
Evagelidou 2007 ^M (37)	B-7y (WT gain)	35	7у	0 (HOMA-IR)		WT gain was not associated with IR
lbañez 2009 ^M (39)	B-7y (WT gain)	56	7γ	++ (HOMA-IR)		WT gain was positively associated with IR
Bavdekar 1999 ^M (44)	B-8y (WT gain)	165	8y	++ (HOMA-IR)	0 (HOMA-IR)	WT gain was positively associated with IR
Torre 2008 [™] (31)	B-8y (WT, HT, BMI gain)	52	8y	0 (HOMA-IR)	0 (HOMA-IR)	Catch up growth was not associated with IR, if BMI was normal
Cianfarani 2003 ^M (17)	B-8.5y (HT gain)	82	8.5y	0 (HOMA-IR)		No differences between groups (adjusted for BMI)
Veening 2003 [™] (16)	B-1y B-2y 2-9y (BMI gain)	28	1ү, 2ү, 9ү	0 (0-2y, Clamp) ++ (2-9y, Clamp)	++ (Clamp)	BMI gain between 2-9y was positively associated with IR
Fabricius- Bjerre 2011 ^M (46)	B-3mo B-1y (WT gain)	30	17.6y	++ (HOMA-IR)	++ (HOMA-IR)	WT gain was positively associated with IR (adjusted for BMI)

Leunissen 2008 ^H (41)	B-21.5y (WT gain)	71	21.5y	+ (IVGTT)	++ (IVGTT)	Catch up growth was associated with higher IR (adjusted for height and fat mass)
c) Blood pressure	Timing of exposure (nature)	N SGA	Age at outcom e	Summary result	SGA vs. AGA controls	Comment
Randomised c	ontrolled trials					
Singhal 2007 ^H (21)	4d-9mo (Nutrient enriched formula)	153	6-8y	++ (BP)		Enriched formula increased the risk of high BP at 6-8 y WT gain B-9mo was positively associated with systolic BP
Observational	studies (4 stud	ies)				
Hemachandr a 2007 ^M (48)	B-4mo 4mo-1y 1-4y 4-7y (WT gain)	2802	7у	++ (BP)	0 (BP)	WT gain during any period was positively associated with high systolic BP
Bavdekar 1999 ^M (44)	B-8y (WT gain)	165	8у	++ (BP)	+ (BP)	WT gain was associated with higher BP, TG and TChol
Horta 2003 ^M (49)	B-20mo, B-42mo (WT gain)	38	15y	++ (BP)	0 (BP)	WT gain was associated with higher systolic BP
Leunissen 2012 ^M (42)	B-21y (WT gain)	106	21y	0 (BP)	0 (BP)	WT gain was not associated with BP
d) Lipids Observational	studies – (7 stu	dies)				
Soto 2003 [™] (15)	B-1y (WT, HT gain)	85	1y	0 (TChol, TG)	+ (TG)	No association with blood lipids between SGA groups
Deng 2012 ^M (45)	B-6y (WT gain)	111	бу	0 (TG)	0 (TG)	No association with TG levels (adjusted for BMI)
Evagelidou 2007 ^M (37)	B-7y (WT gain)	35	7γ	0 (TChol <i>,</i> TG)	0 (TCho, TG)	No association with blood lipids
Bavdekar 1999 ^M (44)	B-8y (WT gain)	165	8у	++ (TChol <i>,</i> TG)	+ (TChol, LDL)	WT gain was associated with higher BP, TG and TChol
Torre 2008 [™] (31)	B-8y (BMI, HT gain)	52	8у	0 (TChol, LDL & TG) (HDL, HT gain)	0 (LDL, HDL, TG)	HT gain was inversely associated with HDL cholesterol
Cianfarani 2003 ^M (17)	B-8.5y (HT)	82	8.5y	(TChol & LDL) 0 (TG & HDL)	 (TChol, HDL)	HT gain was inversely associated with TChol & LDL
Tenhola 2000 ^M (50)	B-5y (HT gain)	55	12 y	 (TChol)	++ (TChol)	SGA with poor HT gain had higher TChol

B, birth; BMI, body mass index; WT, weight; HT, height or length; IR, insulin resistance; SGA, small-for-gestational age; AGA, appropriate-for-gestational age; OGTT, oral glucose tolerance test; IVGTT, intravenous glucose tolerance test; BP; blood pressure; TG, triglycerides; TChol, total cholesterol; CIMT, carotid-intimal thickness; y, years; mo, months. (++) statistically significant positive association; (+) non-significant positive trend; (0) no association; (-) non-significant inverse trend; and (--) significant inverse association.