

Supplementary 5. Quality assessment of included studies using Newcastle-Ottawa scale adapted for cohort studies.

Indicator	Author	Selection				Comparability		Outcome		Quality
		1. Representativeness of the exposed cohort	2. Selection of the non-exposed cohort	3. Ascertainment of exposure	4. Demonstration that outcome of interest was not present at start of study	1. Comparability of cohorts on the basis of the design or analysis	1. Assessment of outcome	2. Was follow up long enough for outcomes to occur	3. Adequacy of follow up of cohorts	
WAZ*	Grjibovski AM	1	1	1	1	2	1	1	1	good
	Mesman I	1	1	0	0	0	1	1	0	poor
	Hui LL	1	1	0	0	2	2	1	1	good
	van Rossem L	1	1	1	0	0	1	1	0	poor
	Chen YJ	1	1	1	1	2	1	1	0	good
	Hong SA	1	1	1	0	1	1	1	1	good
	Kachi Y,2001	1	1	0	0	0	1	1	0	poor
	Kachi Y,2011	1	1	0	0	0	1	1	0	poor
	Ballon M	1	1	0	0	1	1	1	1	fair
	Mekonnen T	1	1	0	0	2	1	1	0	fair
HAZ*	Grjibovski AM	1	1	1	1	2	1	1	1	good
	Mesman I	1	1	0	0	2	1	1	0	good
	van Rossem L	1	1	1	0	0	1	1	0	poor
	Matijasevich A	1	1	1	1	0	1	1	1	poor
	Howe LD	1	1	0	0	0	1	1	1	poor
	Silva LM	1	1	1	0	2	1	1	0	good
	Chen YJ	1	1	1	1	2	1	1	1	good
	Hong SA	1	1	1	0	1	1	1	1	good
	Ballon M	1	1	0	0	1	1	1	1	fair
	Dal Bom JP	1	1	1	0	1	1	1	0	fair
	Mekonnen T	1	1	0	0	2	1	1	0	fair
	Diana A	1	1	1	1	2	1	1	1	good
	Howe LD	1	1	0	0	0	2	1	0	poor
BMIZ*	Mesman I	1	1	0	0	0	1	1	0	poor
	van Rossem L	1	1	1	0	2	1	1	0	good
	Silva LM	1	1	1	0	0	1	1	1	poor
	Morgen CS	1	1	1	0	0	1	1	1	poor
	Ballon M	1	1	0	0	1	1	1	1	fair
	McCrary C, G21	1	1	1	0	0	1	1	1	poor
	McCrary C(GUI)	1	1	1	0	0	1	1	1	poor
	Dal Bom JP	1	1	1	0	1	1	1	0	fair
	Mekonnen T	1	1	0	0	2	1	1	0	fair
	van Rossem L	1	1	1	0	2	1	1	0	good
Overweight	Anderson SE	1	1	0	0	0	1	1	0	poor
	Mastroeni MF	0	1	1	0	2	1	1	0	fair
	Feldman-Winter L	0	1	1	0	0	1	1	0	poor
	Ballon M	1	1	0	0	1	1	1	1	fair
	Rotevatn TA	1	1	1	0	2	1	1	0	good
	Shay M	1	1	0	0	0	0	1	1	poor
	Xinmei Chen	1	1	0	0	0	1	1	1	poor
	Mekonnen T	1	1	0	0	2	1	1	0	poor
	Zhou S	0	1	1	0	0	1	1	0	poor
	Mamabolo RL	0	1	1	0	0	1	1	0	poor
Underweight	Wightkin J	1	1	1	0	0	1	1	0	poor
	Mondal D	0	1	1	1	2	1	1	1	good
	Hong SA	1	1	1	0	1	1	1	1	good
	Mamabolo RL	0	1	2	0	0	1	1	0	poor
Stunting	Willey, Barbara A	1	1	1	1	2	1	1	0	good
	LL Jones	1	1	0	1	2	1	1	0	fair
	Mongkolchati A	1	1	1	1	2	1	1	1	good
	Mondal D	0	1	1	0	2	1	1	1	good
	Slemming W.	1	1	1	0	0	1	1	0	poor
	Hong SA	1	1	1	0	1	1	1	1	good
	Das S	0	1	1	0	0	1	1	1	poor

W\*  
RWG\*

Mamabolo RL	0	1	1	0	0	1	1	0	poor
Hong SA	1	1	1	0	1	1	1	1	good
Karaolis-Danckert	0	1	1	1	0	1	1	0	poor
Mendez MA	1	1	1	1	0	1	1	1	poor
Criswell R	0	1	0	1	0	0	1	1	poor
Rotevatn TA	1	1	1	1	0	1	1	0	poor

\* The numbers represent the number of stars assigned to each domain. WAZ: Weight for age z-score; HAZ: Height for age z-score; BMIZ: BMI for age z-score; W: Wasting; RWG: Rapid weight gain.