



CHILDREN BORN SMALL FOR GESTATIONAL AGE: CATCH-UP GROWTH DURING THE FIRST FOUR YEARS OF LIFE

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Introduction: Children born small for gestational age (SGA) have a weight and/or height less than -2SD from the mean, the realization of an adequate catch-up or not during the first years is very important and the growth assessment is required

Objective: Analyze the Catch-up on Growth of 42 SGA children during the first 4 years of their life, compared the 23 children who performed it properly (AC) with 19 who did not recover (NAC).

Method: Retrospective study of SGA children with appropriate catch-up (height SD above -2.5) 23 children comparing with not catch-up (height SD below -2.5) 19 children, it was analyzed, sex, preterm children, age of the mother, height of the mother, presence of maternal pathology, SD weight and height at birth and at 1-2-4 years and diagnosis at birth. Statistical analysis was carried out by the SPSS v24system.

Results: we compared both groups **23 AC/19 NAC**

Sexo

	Males	Females
AC Appropriate catch-up	63% (17)	38,5% (10)
NAC Not appropriate catch-up	37% (6)	61,5%(9)

In relation of theirs mothers

	Age of mother	Height of mother
AC Appropriate catch-up	32.64±3.9	156.74±5.3
NAC Not appropriate catch-up	32.06±5.5	153.3±5.3

In relation gestational age

	Preterm <36 weeks	Males
AC Appropriate catch-up	26% (6)	100%
NAC Not appropriate catch-up	28% (5)	40%

Pathological findings

	Placental pathology	Unknown etiology
AC Appropriate catch-up	33,3%	64%
NAC Not appropriate catch-up	66,7%	36%

Diagnosis of SGA

	SGA Height	SGA Weight	SGA Height Weight
AC Appropriate catch-up	72%	60%	35,3%
NAC Not appropriate catch-up	28%	40%	64,7%

Evolution of weight and height from birth to 4 years

SD weight birth AC/NAC	SD height birth. AC/NAC	SD weight 12 months AC/NAC	SD height 12months AC/NAC	SD weight 2 years AC/NAC	SD height 2 years AC/NAC	SD weight 4 years AC/NAC	SD height 4 years AC/NAC
-1.78±0.6	-2.44±0.6	-1.98±0.6	-2.22±0.8	-1.9±0.5	-2.34±0.6	-1.42±0.3	-1.99±0.3
-2.11±0.7	-2.76±0.7	-2.49±0.6	-3.16±0.8	-2.56±0.5	-3.42±0.6	-2.24±0.4	-3.33±0.5

Conclusions: SGA children born to mothers with short stature and had placental pathology, especially women with a height less than -2 SD, did not achieve adequate growth in the first years and needed adequate follow-up to benefit from GH treatment.

