



Evolution of IGF-1 in children born small for gestational age and with growth retardation, treated by growth hormone adapted to IGF-1 levels after 1 year

Submitted by Emmanuel Lemoine on Tue, 02/24/2015 - 15:29

Titre	Evolution of IGF-1 in children born small for gestational age and with growth retardation, treated by growth hormone adapted to IGF-1 levels after 1 year
Type de publication	Article de revue
Auteur	Cabrol, S. [1], Perin, L. [2], Colle, M. [3], Coutant, Régis [4], Jesuran-Perelroizen, M. [5], Le Bouc, Y. [6], Czernichow, P. [7]
Editeur	Karger
Type	Article scientifique dans une revue à comité de lecture
Année	2011
Langue	Anglais
Date	2011
Numéro	6
Pagination	419 - 27
Volume	76
Titre de la revue	Hormone Research in Paediatrics
ISSN	1663-2826
Mots-clés	Algorithms [8], Body Height/drug effects [9], Child [10], Child Development/drug effects [11], Child, Preschool [12], Dose-Response Relationship, Drug [13], Drug Monitoring [14], Drug resistance [15], Female [16], Fetal Growth Retardation/blood/drug therapy [17], Human Growth Hormone/administration & dosage/adverse effects/therapeutic use [18], Humans [19], Infant, Newborn [20], Infant, Small for Gestational Age [21], Insulin-Like Growth Factor Binding Protein 3/blood [22], Insulin-Like Growth Factor I/analysis [23], Longitudinal Studies [24], Male [25], Prospective Studies [26], Recombinant Proteins/administration & dosage/adverse effects/therapeutic use [27]
Résumé en anglais	<p>AIM: This study was designed to estimate the percentage of growth hormone (GH)-treated children born small for gestational age (SGA), with serum IGF-1 >2 SDS before and after GH dose adaptation. METHODS: SGA boys aged 4-9 and girls aged 4-7 with a height <-2 SDS and an annual growth rate below the mean received a subcutaneous GH dose of 57 mug/kg/day for 2 years. The GH dose was to be decreased by 30% in children with serum IGF-1 >2 SDS at 12 months and on the previous sample. The GH dose could be reduced a second time to 35 mug/kg.day. IGF-1 and IGFBP-3 dosages were centralized. RESULTS: Among the 49 (21 boys) children included in the study, 8 (16.3%) had an IGF-1 >2 SDS consecutively at 9 and 12 months (95% CI 7.3, 29.7). The GH dose was decreased in 6/8 children. However, IGF-1 levels were elevated at several nonconsecutive determinations in 45% (95% CI 28.4, 56.6) of the patients. CONCLUSION: A high IGF-1 level is observed in 45% of the GH SGA-treated children with a relatively high dose of GH. A 30% reduction in the GH dose causes a decrease in IGF-1 below 2 SDS in most children.</p>

URL de la notice	http://okina.univ-angers.fr/publications/ua8245 [28]
DOI	10.1159/000334651 [29]
Lien vers le document	http://dx.doi.org/10.1159/000334651 [29]
Titre abrégé	Horm Res Paediatr

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