LATIN-AMERICAN SOCIETY OF PEDIATRIC ENDOCRINOLOGY

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ANALYSIS OF CLINICAL DATA OF 107 PATIENTS WITH GROWTH HORMONE DE-FICTH STATE OF THE PROPERTY OF THE PROPERTY OF THE STATE OF THE STATE

Clinical and radiological data and associated hormonal deficiencies were studied in 107 patients with Growth hormone deficiency: 46 had isolated growth hormone deficiency (1GHD) (25 majes, 21 females) and 61 had multiple hypothalamic-pituitary hormone deficiencies (HHD) (45 majes, 16 females).

	I GHD	MHPD
Chronological age (years) Height (mm* / 50 5.2 Height (kg)* / 5.0 5.4* Height (kg)* / 5.0 5.4* Height age (years)* Bone age (years)* Onset of growth delay (years)* Onset of puberty (years)* Growth velocity (cm/y.)*	11.0 + 3.6 110.3 + 14.0/-4.5+1.7 20.5 + 6.5/-2.3+0.9 5.2 + 2.1 7.2 + 3.1 7.2 + 2.1 13.7 + 2.0 3.1 + 1.2	14.5 + 4.5 118.6 = 14.0/-5.2+1.4 25.0 = 7.6/-2.5=0.9 6.4 = 2.5 7.5 = 2.5 1.3.4 = 3.1 2.9 = 1.2

* Mean + standard deviation - ** Standard deviation score (Marcondes et al.)

Of the patients with IGHO, 82.2% were prepubertal, 40% had micropenis, 21.4% cryptorchidsm, 61.4% were born by normal delivery 11 forceps, 29.5% gelivered by constraint section, 91% pelvic presentation and 2 pairs of twins, 17.5% had negnatal problems, 27.3% associated anomalies, 9.1% parental consenguinity and 13.3% affected siblings.

In the group with MHPD 91.8% were prepubertal, 38.6% had micropenis, 11.1% cryptorchidsm, 51.8% normal delivery (4 forceps), 17.9% delivered by cesarean section, 30.4% with pelvic presentation at bird, 61.5% had neonatal problems, 12.5% associated anomalies, 10.3% parental consenguinity and only 1 affected sibling, 14 patients with a problems and 25 with 10.4% patients with the reducing months of the problems of the patients of the problems of the problems of the problems of the patients of the problems of the patients of the problems of the patients of the patients

THE 24 H GROWIH HORMONE (GH) SECRETION PROFILE IN PAFIENTS WITH DIA-BETES MELLITUS I (100M): RESPONSE OF GH TO TRH ADMINISTRATION. Salgado L.R.; Semer M.; Sagretti C.A.; Jana S.; Villares S.M.; Knoerfelmacher M.; Liberman B. & Nicolau W Hospital Brigadeiro-INAMPS - Hospital das Clinicas/FMUSP.

The growth hormone has been implicated in the pathogenesis of several metabolic derangements mainly with regard to vascular lesions specially proliferative retinophaty and nephropathy. It is known that in 100M poorly controles there is an increase secretion of Gil and anomalous responses to the hypothalamic hormones. There is absolutely no clear explanation to the increased GH secretion, but it is probable that 16F 1 (somatomedin) decreased levels do not block the somatostatin secretion and hence the GH4 secretion; processes. In this paper, we studied 4 100M children and the control of the control o

PATIENT/SEX/AGE	GH M <u>+</u> SD ng/ml	ньА С (%)1	N° of PULSES	TRH/GH B P	SmC(1gF . mU/ml	A) TESTO ng/dl	E pg/m1
1 F 10 4/12	5.22 <u>+</u> 11.8	14.0	17	0.5 8.0	0.9	55	36
	1.20+1.41	9.6	11		1.2	22	20
2 M 11 4/12	2.08+4.37	20.7	13	11.0 26.9	1.8	10	
	2.52+4.10	13.4	15	0.2 0.8	1,8	67	
3 F 14 2/12	26.89 <u>+</u> 30.0	18.6	13	2.2 27.0	0.89	40	20
	9.24+9.21	11.6	17		0.9	41	18
4 F 11	2.38 <u>+</u> 3.6	15.5	14	1.5 17.0	0.86	10	19
	1.29+1.48	12.8	10	0.8 8.9	1.33	7	

Conclusion: Our data show that IDDM patients with better metabolic control had lower GH levels. These data suggest that better metabolic control

VOCALS

Dr. Alfonso Vargas (Colombia)

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COMPARISON OF THE EFFECT OF CLONIDINE AND PYRIDOSTIGMINE AS PROVO-CATIVE TESTS GROWTH HORMONE SECRETION.

Marun, R.H.; O'Abromaco, F.H.; Villares, S.M.; Hashimoto, M.;
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The oral administration of clonidine has been found to be effective for assessment of Human Growth Hormone (hGH) secretion, by specific activation of central postsynaptic 2-2 receptors. The aim of this work was to compare GH response to cloniding the premitive administration mydmount of the response of the premitive administration of the premitive

	NORMAL (13) CLO PY	BASAL (M + SD) 0.69 + 0.52 ng/m) 2.11 <u>+</u> 2.55 ng/ml	PEAK (M + SD) 16.36 + 19.94 ng/ml 11.71 <u>+</u> 7.68 ng/ml					
	NON-DGH (17) CLO PY	1.50 + 1.40 ng/ml 1.20 + 1.60 ng/ml	13.20 + 5.90 ng/m 12.70 + 5.90 ng/m					
	DGH (2) CLO PY	1.40 + 1.27 ng/ml 3.20 ± 3.82 ng/ml	1.45 + 1.34 ng/ml 3.30 ± 3.90 ng/ml					
The false negative results are shown in table 2:								
		CLO	PY					
	NORMAL (13) NON-DGH (17)	3 children	l child 3 children					

No false positives were observed in the short stature children group. We conclude that pyridostigmine is a useful drug in the diagnosis of growth hormone defficiency in short stature children.

Gn-RH INFUSION, USEFUL TEST IN THE DIAGNOSIS OF GONADOTROPIN DEFI-CIENCY IN PATIENTS WITH HYPOPITUITARISM. A. Martínez, H. Domené, J.J. Heinrich, C. Bergadá. División de Endocrinología. Hospital de Niños R.Gutiérrez. Buenos Aires. Argentina.

It is still difficult to make an accurate diagnosis of gonadotropin deficiency at prepubertal age. It is important to know in hypopituitary patients if spontaneous puberty will occur or if treatment with sex hormones will be necessary to obtain and adequate response to hGH at pubertal age. Sixteen male patients (chronological age 13.9 - 21.9 years, Bone age 9-18 years) with idiopathic hypopituitarism and 11 normal boys between 14.2 to 16 years (Bone age 11.7 - 13.0 years) with early puberty were studied. Gn-RH infusion (0.83 ug/min) was perfprmed and samples for LH and FSH were obtained at 0, 15', 30', 45', 60' and 120'. Testosterone levels were determined at the star of the infusion. All hormones were measured by RIA. In the hypopituitary patients group three differents patterns of response were elicited: a) two patients showed a LH response similar to control group (maximal response 18.8 and 31.4 UI/L respectively), b) 8 patients showed an LH response below 5 UI/L (X±SD 1.99±1.44 UI/L). c) 6 patients showed an intermediate LH response (X=SD 7.68+2.97 UI/L). During follow-up patients of group a) underwent normal pubertal progression. No patients of group b) showed pubertal development; In group c) one patient progressed normally into puberty and 3 patients experienced an arrest of pubertal progression. In patients with hypopituitarism the lack of respon se of LH to Gn-RH infusion at pubertal bone age strongly suggest the diagnosis of gonadotropin deficiency. On the other hand, a normal response excluded this diagnosis. Patients with subnormal LH response to Gn-RH infusion, are probabley affected by a partial gonadotropin deficiency, consequently, a close follow-up and eventually further evaluation is advisable to assure the state of gonadotropin reserve.