CLINICAL USES OF THE TRH/ISH TEST IN CHILDREN. Péres de Rubio G.; Muños L.

Servicio de Endocrinología Infantil. Hospital Pediátrico. Hosp. de Niños. Córdoba. Argentina

Objetives: Analysis of the hypothalamus-hypophysial-thymoid axis in 79 children with different pathologies: Retarded growth, Coiter, and G.H. insufficiency, and its relation with thyroid homones to detect states of subclinical hypothyroidism. Group 1:Retarded Growth:34 children, 12 girls and 22 boys. Mean (X) Chronological age (CA) 8.08+4.25 and 9.14+4.82, respectively. All were under 25D of the normal range for size according to sex and age. Group 2:Goiter: 31 children, 24 girls and 7 boys. C.A.(X) 10.71+3.51 and 9.86+1.46, respect. The majority of them was submitted to Ant. antithyroid, gamma C and/or thyroid Echog. Group 3:GH insuffic.: 14 children, 10 girls and 4 boys. C.A.(X) 7.90+3.28 and 9.25+2.75, respectively.

5

Results	sults T3 mg/dl		1 -	TSH uUI/ml		T4 uq/dl	
Retarded Growth (X)		153.2		3.0	2	10.41	
Coiter (X)		184.2		4.3	9	9.55	
CH defic. (X)		143.5		3.4	2	8.14	
Relation T3/T4 1. die	not sh	ow signi	ficant d	liffereno	es. T3:X G.2	X G.3 (pz 0.01)	
151: X G.21 X G.1 (p	(0.01)-	T4:X G.1	4 X G.3	(pz 0.05).	-	
TRH/ISH test	0'	30'	60'	90'	0/301		
Retarded Growth (X)	2.75	16.26	12.32	8.54	13.516		
Goiter(X)	4.57	23.68	17.29	12.74	19.11		
GH dedic. (X)	4.01	20,90	20.51	18.80	16.89		

4 insufficient resonnees of TSH to TRH were not considered in G.3. No significant in instance the response of the do the wave for the considered in 0.3. As significant differences between G.2 and G.3. At 60' X G.2 Δ X G.1 (p<0.01), No significant differences between G.2 and G.3. At 90' X G.3 Δ X G.1 (p<0.01) No significant differences between G.2 and G.3. At 90' X G.3 Δ X G.2 (p<0.01) X G.21X G.1 (p20.05).

DESITULLAR CROWIN AND HOMONAL PARAMETERS BEFORE AND AFTER SURGICAL CORRECTION OF CHILDREN AND ADCLESCENTS WITH VARICOCCIE. Gottlieb S.;Rodestá M.;Medel R.;Cherres II.;Ropelato G.;Quesada E.;Bergadá C. 6 División de Endocrinología y Urología. Hospital de Niños R. Outiérrez. Buenos Aires, Argentina,

In a previous communication we described the changes in testicular volume (T.Vol.) and the gonadotropin response before and after the Gn-RH test in children and achilescents with varioccele. In this study we will be analyzing the T. Vol. and the homonal parameters of 16 patients who underwent surgical connection of the variocoele. Pubertal changes in these patients were classified according to the criteria of Marshall and Tanner: 5, Grade I;6 Grade 2-3 and 5, Grade 4-5. Testicular volume (T.Vol) before and after surgery (mil):

BEFORE AFTER 3,20+1,44 12,3+2,58 BEFORE RT: 2.50+0.70 RT: 7.41+2.20 III: 1.70+0.44 3.20+1.30LT: 4.90+0.54 9.66+1.96 Grade 2-3: Grade 4-5: RT: 19.0+4.18 20.0+3.53 LT: 14.0+4.41 19.0+4.18 Serum Testosterone (T) before and after surgery (ng/dl): 35.7+12.5 56.8+23.6 Grade 1: Grade 2-3: 232+128 522+158 Grade 4-5: 513+162 626+223 Hasal and Mx. 1H response to On-RH before and after surgery (nUI/ml):
Oracle 1: before 1.32+0.50 8.18+5.56 after 1.74+0.88 9 8.18±5.56 after 18.5±11.2 after 23.7±7.55 after Grade 1: before Grade 2-3:before 9.40+4.64 1.75+0.72 1.95+0.98 19.6+10.7 Grade 4-5:before 2.6070.80 23.747.55 after 3.44+1.79 15.946.13
Surgical treatment of the varicocele leads to an improvement of testicular volume and testosterone, specially in Tanner's stage (2-3), as well as a decrease in the response of LH after the administration of Gn-RH in higher Tanner's stage (4-5). Althought the outcome of fertility of children and adolescents with a varicocele in adulthood is unknown, the normalization of the T.Vol. and the integrity of the hypothalamic pituitary-testicular axis in our patients after surgery of varioccelle suggests the importance of this early procedure.

FINAL HEIGHT IN PATTENTS TREATED WITH HIMAN GROWIH HIMANE. Martinez A.; Keselman A.; Heinrich J.J.; Bergadá C. CEDIE. División de Endocrinología. Hospital de Niños R. Outiérrez.

Buenos Aires. Argentina.

The effect of the human growth homone therapy on short-term growth in growth homone deficient children is well established, but only a few studies have been published about patient's final height. In the present study the final height of 73 hypopituitary patients treated with human growth homone (dose 0.2-0.4 IU/kg/week) for a period ranging from 1.04 to 17.19 years were analyzed.

	MPHD (male	ICI (fem	IGHD (male)	
	154.2 7 +5.9	140	149.6 +10.3	am
3.08 -3.06).90 +1.06			-3.78 +1.53	sos
				sos ·

Our patients started treatment at a median age of 13 years with a height deficit of more than -405 and received a relatively low dose of h31 enough to mentain a normal growth rate but no for recovering finally a normal height.

The importance of early diagnosis and treatment is emphasized in order to prevent a greater lost of stature and to obtain a better effect on final height.

HYPOTHALAMO-PITUTTARY-OVARIAN FUNCTION IN PREPUBERIAL GIRLS WITH 8 CHRONIC RENAL FAILURE (CRF). Castellano M.; Turconi A.; Charler E.; Maceiras M.; Rivarola M.A.; Belgorosky A.

Iab. de Investigación Hospital de Pediatría Carrahan, Buenos Aires. Argentina.

There is a little information on hypothalamo-pituitary function in prepubertal girls with CRF. Seven prepubertal girls with CRF(3 slight or moderate and 4 in chronic dyalisis), with a mean+SD chronological age (CA) of 7.61+3.13 years (y) and 7 control (C) girls with a CA of 8.59+2.01 y, were studied. An acute standard IH-RH test as well as a prolonged one using 2 doses of 100 ug of a IH-RH (Buserelin) every 24 hours (hs). Serum IH and FSH were determined basally and at 20 and 60' after IH-RH while serum IH, FSH and Estradiol (E.) were measured basally 24 after the first dose of a LI-RSI and 4, 6 and 24 hs after the second dose. The ovarian response was considered positive when secure E, was \$15 pmol/L in at least 1 sample. Basal and post acute LI-RSI levels of LB and FSH were not different form C. Second FSH with the LI-LSI and LI-RSI levels of LB and FSH were not different from C. Serum FSH, but not LH, was significantly lower than C (p20.02) at 4 and 6 hs after the second a IH-RH dose (IH, IRC:0.6240.57, 1.1141.16, 2.49+2.94, 2.16+1.7 and 1.68+1.46; C: 0.54+0.10, 0.60+0.177, 4.06+2.29, 2.36+1.59 and 0.88+0.86; FSH, IRC:2.62+1.59, 5.34+4.13, 4.98+3.86, 4.81+3.33 and 4.21+1.86, C:2.01+0.84, 5.88+2.34, 15.3+6.17, 13.7+5.86 and 2.88+1.47 U/L). A positive E, response was significantly less frequent than in C (4/7 and 6/7), p.2.0.02. In C, there was a significantly positive concellation between FSH and E, $(r=0.49, p \ge 0.02)$ but not between IH and E, while in IRC it was significant between IH and E, $(r=0.54, p \ge 0.01)$. The data suggest that girls with IRC have an alteration in FSR secretion as well as in ovarian aromatase activity as shown by the lack of E_2 response and the lack of connelation between FSR and E_2 , which was present between LH and E_2 . These alterations might be expressed clinically during puberty.

DIFFERENT THYPOID INFILTRATING CELLS AND IMMINULOGICAL EXPRESSION IN JUNENITE CHONIC LIMPHOCYTIC THRYCIDITIS (CLT) AND GRAVES DISEASE. 9 Herzovich V.; Goldberg J.; Rossi J. and Iorcansky Sonia. Hospital Garrahan. Buenos Aires. Argentina.

Since Hashimoto's description of "struma lymphomatosa" in 1912, immunological disorders were imputed to many thyroid diseases. Close relation between this condition (whose juvenile form is CLT) and Graves' disease were proposed, but it is not clear if they could be or not expressions of a single entity. To elucidate this aspect, thyroid infiltrating cells and immunological markers as well as citological studies, were performed on thyroid tissue obtained by means of thyroid fine needle aspiration biopsies (TFNAB) in 20 patients (CLT n=10 and CD, n=10). Material and espiraturi interess (trees) in 20 periodic to Hayry and Von Willebrand's method of Corrected Increment (CI). Morphology as well as HIA-CR expression in follicular cells. Interleukine-2 receptor (II-2/R) B and T cell markers were performed on cytospin snears, either by immunoperoxidase or indirect immunofluorescence. ITAVB autoimmune thyroid diseases in juvenile patients.

MOLECULIAR STUDIES OF SEX CHROMOBOMES ALTERATIONS IN CONTINUE. DASCENESIS PATTENIS. Copelli S.; Targovnik H.; del Rey G.; Corah 10 D.; Coco R.; Bergadá C. Centro de Investigaciones Endocrinológicas, Hospital de Niños R.

Gutiérrez. Cátedra de Genética y Biología Molecular, Facultad de Farmecia y Biocúmica, UBA. Instituto Pecunditas, Buenos Aires. Arcentina.

Sex chromosome numerical and structural alterations not always can be detectable or evaluated by cytogenetic means. The aim was to study the sex chromosomes with X-Y DNA probes by Southern blot and SRY gene (sex region of Y chromosome) by FCR (Rolymerase chain reaction). HDP 34 and pDP 105 probes were used for DNA hybridization genomic DNA from patients and female and male controls were studied by both techniques. Five patients were analyzed: a)2 Turner's Syndrome, XO/Xr(X o Y?), b)1 XX male, c)1 X,idic (Yq12) male, d)1 dysgenetic male pseudohermaphrodite XO/XY/Xr(Y?)/Xr(Y?)r(Y?).

Molecular data are shown in the following table:

	Probe	Locus				
	pDP 34	i(4A)Yp	-	-	+	+
Southern		xq13-Xp21.	+	+	+	+
	pDP 105	i(3)Yp	-	-	+	+
	-	i(6)Yq	-	-	+	+
PCR		SRY	-	+	+	+

These results suppost the advantage to perform techniques to identify sex chromosome specific sequences in uncertain cytogenetic diagnosis in order to obtain a better clinical management in gonadal dysgenesis.