MALE ADDIESCENIS WITH CONSTITUTIONAL DELAY OF GROWIH AND FUBERTY. THERAPEUTICAL FEFFICT OF TESTOSTEFICNE. Bergadá C.; Bergadá I. Centro de Investigaciones Andocrinológicas y División de

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Constitutional delay of growth and puberty (COSP) is characterized by small stature and delay of bone age (BA) and sexual development. In order to accelerate growth velocity (GV) and sexual development 23 boys with COSP who were worried for their coor growth and pubertal development were treated with monthly intranuscular testosterone injections (41+7.7 mg/m²) during 18 months (T). Thirteen boys with COSP who were not treated served as control group (C). Before treatment there were no differences between groups in chronological age (CA) T:14.65+0.9 vs C:14.31+0.8 (p=NS), SDS of height (SDS) T:-3.30+0.81 vs C:-2.65+0.62 (p=NS), SDS of height (SDS) T:-3.40+0.90 vs C:04+0.40 (p=NS), SDS of height (SDS) T:-3.70+0.81 (D+RS), 3.5 of length (3.5) 1:-0.24+0.9 vs -0.04+0.4 (p+RS), BA T:11.81+1.1 vs 11.59+1.1 (p+RS), public hair (Tanner)(P) T:1.82+0.7 vs. 1.88+0.6 (p+RS), testicular volume (TV) T:7.0+2.6 vs 6.8+2.1 (p+RS) nor GV T:4.01+1.3 vs 4.9+1.4 (p+RS). Ratients were clinically evaluate approximately every 3.5 months. In response to treatment we obtained the following auxological data:

	GV (cm/year)		SDSBA		TV (ml)	
visit	T	С	T	C	T	C
P	4.0+1.3	4.9+1.4	-0.24+0.4	-0.04+0.4	7.0+2.6	6.8+2.1
20	10.0+1.8	4.2+0.9	_	_	7.2+2.5	8.8+2.8
3° 4° 5°	9.6+1.7	7.1+1.3	-0.28+0.6	-0.22+0.3	8.5+3.2	10.3+3.2
40	9.5+1.5	8.3+2.4	_		9.2 + 3.4	12.3+3.3
50	8.3+1.7	7.9+2.4	-0.23+0.6	-0.10+0.4	11.5+4.2	14.5+2.9
6°	7.0+1.5	8.071.3	-0.29+0.7	-0.05+0.6	14.1+4.5	14.4+3.3
Anova	p= 0.0001		p=NS		p=0.001	

After 18 m of treatment there were no differences in predicted adult height by Bayley-Pinneau (PFH)T:170.544.7 C:172.044.7. In summary administration of low dose testosterone could be an adequate therapy in boys with CDCP to produce a significant acceleration of growth, advance virilization without the induction of excessive bone maturation nor deteriorating predicted final height.

CENTRALIZED RESISTANCE TO THIROID HORMONE IN A CHILDREN: USE OF BROMOCRIPTINE (BC). Chiesa A.; Groñeiro L. 30 División de Endocrinología,O Qutiérrez".Buenos Aires.Argentina. Endocrinología, CEDIE, Hospital de Niños

Generalized resistance to thyroid hormone (CRIH) is a Syndrone characterized by elevated serum 74 and T3 levels, preservation of a T34 response to TRH and the absence of menifestations of thyroid homone excess. In this communication we report the studies in a 6.3 years old boy, with height and weight in 50% percentile, bone age 6 years, with a large goiter of 50 gr. The patient had received lugol for 5 months and stopped it a month before. Serum T4 level was 20 received light for 5 minutes and surpper it a minuth belove. Seruh if level was 7 mg/dl, 73 339 mg/dl, free T4 5.6 mg/dl, negative antimicrosomal antibodies, TSH 1.0 ul/ml, TSH post TRH 11.5 ul/ml, prolactine 10.4 mg/ml, post TRH 43.1 mg/ml, testosterone binding globulin (SHG) 68.5 mml/l, normal sella turcica Rx. 1 uptake of 8, 32, 38% at 1, 24 and 48 hours respectively. Pulsatile modurnal TSH secretion with a mean nocturnal TSH surge (% increase in TSH from nadir) was 105% (95% confidence limits 50-300%) x day TSH 1.8 X night TSH 3.7. Thyroid gland didn't change during 10 months without therapy. The administration of T3 (80 ug/day) for 1 week produced a rise in serum T3 to 600 mg/dl, SHBG dich't change, and TSH response to TRH decrease only a 10%. Eight hours after BE 1.2 mg orally basal TSH decreased to 184 decrease only a 10%, hight hours after to 1.2 mg oranly heat is recreased from 4.1 to 0.5 ul/ml, no significant change in T4 and T3 levels were observed. Trying to decrease goiter size the patient was given Broncoriptine 2.5-5 mg/day for 4 months. The thyroid gland decreased to 25 g. Mp significant changes were observed in T4, T3, free T4, SHBC response to TRH and T1 uptake. The Pr1 response to TRH lowered 84%. The pulsatile TSH nocturnal secretion decreased X day TSH 36%, X night TSH 38%. The patient maintained the clinical euthyroidism with a growth rate of 7.3 cm/yr. Thus BC in this patient was useful in decreasing goiter size while maintaining clinical euthyroidism.

Chronic use of this dopaminergic agonist (BC) may be useful in certain patients with generalized resistance to thyroid hormone.

PREDICTED FINAL HEIGHT IN BOXS WITH CONSTITUTIONAL DETAY OF GROWITH AND RIPERTY (CDCP). Keselman A.: Beroadá I.: Martinez A.: Heinrich 31 J.J. and Bergadá C.

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OCCEPTEZ. DUEN'S Arrest. Argentum COCCEPTEZ. DUEN'S Arrest. DUEN'S Arrest. Argentum COCCEPTEZ. DUEN'S Arrest. Argentum Co at their caset of puberty. A second group of boys with familial short stature (FSS) (n=16) (B)was used for comparison. There were not difference in Target Height between groups. In group A, 37 boys started puberty, 17 at a morel CA (Al) while 20 had delayed puberty(A2) with its caset after 13.5 years of age. In group B, 7 boys started puberty at a normal CA (B1) while 5 had delayed puberty (B2). FRH was assessed by Bayley-Pinneau in both groups during prepuberty and at their caset of puberty, in 16 patients we obtained final height.

PEH	Prepubertal.	Conset of puberty	Final Height
Al	-	160.16+6.3(n=17)	160.7 (n=6)
	167.37+6.0 (n=48)	p=0.001	
A2		167.80+6.9 (n=20)	166.7 (n=7)
BL		162.80+5.5 (n=7)	162.1 (n=2)
	161.33+5.6 (n=16)	p=0.83	
R2	_	163 50+5 1 (n=5)	158 8 (n=2)

Forty five percent of prepubertal boys with COOP started puberty at a normal CA associated to a reduction of FFH. These data were confirmed with those patients who attained their adult final height. In contrast boys with CDCP with delayed puberty (55%) had a similar PPH compared to their prediction, data confirmed with those who attained final height. In summary PPH in patients with COCP is not accurate for prepubertal boys, however is a good method at their croset of puberty. ARSENCE OF NON CLASSICAL 210HLASA DEFICIENCY IN GIRLS WITH PREDOCIOUS FURNICIE. Gryngarten M.; Escobar M.E.; Belgorosky A.; Bergadá C.

de Endocrinología.Hospital Gutiérrez. Laboratorio de Investigación, hospital de Pediatría Dr. J.P. Caraham. Recent reports have described non classical 210 flasa deficiency in girls with

premaiors putarche (PP).

In order to assess the prevalence of this deficiency, 26 girls with PP were studied, chronological age (CA) (XHSD) 6.47±2.04 a. Height, bone age (BA) and sexual development (Tanner) were evaluated and in eight cases pelvic and adrenal ultrasound examination were performed. An ACIH stimulation test was done in all patients using 25UI given as an IV bolus measuring basal and post ACTH (30 and 60 min.) 170H procesterone (170HP) and cortisol levels, the results were compared with inth, 17th projected the Charly aith outcomes revens lie testing were expected with a control group of normal girls (3 prepubertal and 5 pubertal). Basal SHBC, Tand SCHEA levels were measured in 10, 24 and 12 patients respectively. All patients had MI, VPII-III. The height SDS was 0.53+1.18, the ratio BA/BC was 0.85+1.08. In eight patients where ultrasound study was performed, the results were normal. The 17CHP baseline serum levels were (X450) 0.65±0.66 ng/ml and the cortisol levels 12±9 us/100 ml and the highest response to ACTH was 2.42±1.31 and 29.2±7.1 respectively. None of the studied patients showed 17CHP levels to ACTH higher than those of normal population of the published nonogram, nor of our normal controls (prepubertal ng/ml B:0.35±0.31, maximal response 2.88±0.53;pubertal B: 1.6±0.73, maximal response 6.48±3.26. The basal serum levels of SHBC, T and SDHEA were: X±SD (mcl/L) 94.50±31.04, 0.98±0.73 and 2300±2320. Only the SDHEA serum levels were significantly higher than in those previously published controls (103±8, 1.06±0.08 and 348±117) p40.01 (Relgarcaky and col. JCEM 67:234, 1988).

In conclusion we studied group of 26 girls with presocious pubarche none of them presented any biochemical evidence for non classical CMI due to 210Hlasa deficiency. The increased SDHFA levels confirm a premature maturation of adversal

activity in girls with precocious pubarche.

AUTOLOCOUS IMMUNICIOLITATION OF PANCREATIC AGRESSION IN AN EXPERIMENTAL MODEL OF AUTOIMMUNE DIABETES. Azata M.;Quintanas 33 C.: Basabe JC.

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The aim of this work was to study autologous immunomodulation (vaccination mechanisms) on autoimmune pancreatic aggression. Splenocytes from multiple-lowdose streptocotocin diabetic mice were transferred to normal syngeneic mice. Recipient animals developed abnormal glucose tolerance and diminished 1st. and 2nd. phases of insulin secretion. When splenocytes from diabetic donors were incubated with Mitomycin C prior to transfer, cells remained viable but they loose their pancreatic aggression ability. Splenocytes from diabetic donors were incubated with Mitomycin C and then injected into syngeneic normal mice. 15 days after, mice were injected with an equal dose of splenocytes from diabetic donors. 15 days after the Injected with an equal cose of splanocytes from diabetic corocs. Is days after the last injection, recipients showed glucose tolerance and insulin secretion profiles similar to control groups in 50% of the injected animals. This protective effect was specifically induced by splenocytes from diabetic mice incubated with Mitomicyn C prior to transfer (controls:1065±17 vs. diabetics:1078±20 uU insulin/4 min/100 mg w.t., n=6). This effect was not observed in athymic recipients, suggesting that an immune response should be mounted in recipient animals. These results show that Mitomycin C-incubated splenocytes from diabetic choose specifically induced a protective effect against immune appression and represented an experimental model to study autologue immunomodulation mechanism in autoimmune

EFFECT OF A HIGH PROJEIN DIET ON INSULIN SECRETION IN AN EXPERIMENTAL MODEL OF DIABETES INCOMED BY SPLENOCYTES TRANSFER. 34 Karabatas L.; Lombardo Y.; Basabe J.C. Diabetes Experimental, Centro de Investigaciones Endocrinológicas (OEDIE) , Hospital de Niños Gutiérrez", Buenos Aires, y Facultad de Bicquímica, Universidad del Litoral, Santa

In previous works we observed that the administration of a high-protein diet (HPD) to rats and mice, attenuated the deleterious effect of streptozotocin (SZ) on insulin secretion (IS). On the other hand transfer of splenocytes (S) from diabetic insuling selection (18), and the out-hand caused in galaxyses of individuals to mornal mice, caused in the last ones, glucose-intolerance and a significant diminution in glucose-stimulated IS. In the present work we studied if the administration of HPD to mice that had received diabetic S, modify the observed alterations in IS. C5761/6J mice were injected with 5 doses of SZ (40 mg/kg/day). 15 days later their spleens were dissected and S isolated. These "diabetic" S were injected i.p. in receptor mice kept on a control diet (CD) or HPD. 15 days after S transfer, pancreatic gland from receptor mice were perifused and IS patterns were evaluated. Results showed that mice transferred with "diabetic" S, kept either on OD or FED prosented diminished 1st. and 2nd. phases of 1S (O:1st. phase: 1288.7±40.4, n=6 vs 993.4±16.9 uU/6 min/100 mg wt.,n=5, p<0.001; 2nd phase:117610±201.9, n=6 vs 10712 ± 220.5 101/32 min/100 mg wt, n=5, p ±0.01 ; HRO: lst. phase: $1322.6\pm31.2,n=5$, vs $1134.0\pm15.4,n=9$, p ±0.01 ; 2nd phase: 11867 ± 295.6 vs 10628 ± 224.6 , n=5 and 9, p ±0.01). However in mice fed HRD and transferred with "diabetic" S, lst.phase of IS was significantly higher than values from mice under CD (p 4 0.001). These results suggest that HPD improved the B-cell secretory response in an experimental model of diabetes with anti beta cell immune aggression.