TRANSIENT NEONATAL HYPERTHYROTROPINEMIA. Sgarbi J.A.,
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Transient neonatal hyperthyrotropinemia (TNH) is a rare condition that must be included in the differential diagnosis of congenital hypothyroidism (CH) to avoid inappropriate thyroid hormone replacement. Our screening program for congenital hypothyroidism evaluated 4,075 newborns with simultaneous determinations of TSH and T4 in the umbilical cord blood after immediate clamping. Newborns presenting TSH concentrations higher than 40 uU/ml (n= 38; 0.7%) were recalled. In this group, 9 out of them (0.2%) had TSH values above 60 uU/ml. All 38 newborns presented normal T4 levels and their TSH values were observed to fall within the normal range (1-7 uU/ml) between the 6th and the 30th week after delivery. TNH was associated to fetal or maternal stress. Fetal stress causes were anoxia (39%), jaundice (37%), birth injury (24%), prematurity (16%), respiratory distress syndrome (10%), hemolytic disease (5%) and congenital anomalies (5%). Maternal causes were hypertensive disease (10%), premature separation of placenta (5%), eclampsia (5%), premature amniorrhexis (2.6%) and diabetes mellitus (2.6%). We concluded that 1) the frequency of TNH is higher in our population than the one observed in other studies. 2) the cutoff point for isolated TSH determination should be higher than the one usually utilized and 3) simultaneous TSH and T4 determinations should be employed in the screening programs for congenital hypothyroidism.

ABSENCE OF SIALIC ACID IN MATURE THYROGLOBULIN (Tg) CAUSING CONGENITAL GOITER AND HYPOTHYROIDISM. Doi SQ, Grollman EF, Shifrin S, Weiss P and Medeiros-Neto GA. National Institutes of health, Behtesda and Thyroid Laboratory, Div Endocrinology, Hospital des Clinicas FMUSP

Tg Glyosylation is considered necessary to be secreted into the follicular lumen. The present study was carried out on Tg isolated from a patient with congenital goiter and hypothyroidism. The patient's parents were first cousins and had 5 siblings who were goitrous an hypothyroid. Previous studies have indicated the Tg was normal on ultracentrifugation and reacted normally with anti-Tg. Thyroid peroxidase activity in the gland was markedly increased, due to the intense TSH stimulation. Tg from the patient was isolated from the thyroid homogenate and had an elution pattern on Sephacryl S-200 that was normal, although poorly iodinated. This Tg acted like normal Tg on SDS-PAGE under non-reducing conditions, but behaved abnormally after 2-mercapto-etanol reduction. One of the most outstanding features of the Tg was the virtual absence of SIALIC ACID (N=24.3, Abnormal Tg: 1.0 nmol/ug) although normal levels of manose, galactose and glucosamine were found. The T3+T4 released from Tg after Pronase hydrolysis was less than 20% of normal values. In conclusion, the absence of sialic acid from the Tg molecule caused extreme structural changes that prevents normal synthesis of T3+T4 causing congenital goiter and hypothyroidism.

13 24 HOUR GROWTH HORMONE SECRETION IN GIRLS WITH SEXUAL PRECOCITY. Hendonca B.B. VIllares X.M. Domenice S., Arnhold I.J.P., Dahia P. Ling God B. V. Bolise W. and Nicolau W. Division of Endocrinology - Nospital das Clinicas - University of sao Paulo Medical School, Sao Paulo, Brasil.

Twenty four hour growth hormone (GH) secretion has been determined to classify patients with growth disorders, a mean (k) 3 ng/dl considered GH meuro screeting deficiency. We studied GH secretion in 6 girls with sexual precolor 24 hour evaluation of tH and FSM secretion, 5 patients had breast development (Ianner stage II-III), advanced height and/or bone age (Cases 1-5) and one girl had premature pubarche (case 6-breasts stage I, public hair stage II) as well as advanced height and bone ages. Blood was withdrawn through an I.V. catheter every 20 min, for 24 hours (total volume 27m1/Kg) during normal daily activities and manner AHA and the results and reach a Case and the results and second or second considered 8-20 h and nocturnal 20.20 - 7.40 h. Somationed in during located was vated for chronological age in case 3 and in cases, 2 and 4.

CASE	C.A. yrs.	sds height	8.A. yrs.	GH (ng/ml)						
				x 24 h	MAX. PULSE	NIGHT PERIOD		24 h. PERIOD		
						n pulses	area	n pulses	area	
123456	4.83 5.58 7.58 7.583 5.83	+2.52 -0.84 -0.14 +0.21 +0.43	6.83 6.53 7.83 7.83 10.5 6.83	1.12+0.97 2.18+3.29 3.7 +5.5 4.83+7.85 3.1 +4.4 4.25+6.24	4.7 5.4 26.6 44.5 18.4 27.5	36654 3	33 1000 2058 1545	88 109 7	61.2 137.9 240 324 202 286	

Great variation in GH secretion was observed among the patients, but with predomigance of nocturnal secretion. There was no correlation of height SDS with either X GH secretion or diurnal or nocturnal-GH area. In 2 patients, despite normal (case 2) or elevated (case 1) height, X 24 h GH secretion was 3 ng/ml. We concluded that 24 h GH secretion in girls with sexual precocity is heterogeneous, and X can be lower than 3 ng/ml challenging this values as a limit for normal in the evaluation of growth disonders. 4 HOUR LH AND ESH SECRETION AND RESPONSE TO GNRH IN GIRLS WITH SEXUAL PRECOCITY. Obmenice, S., Mendonca, B.B.; Villares, S.M.; Arnhold, I.J.P.: Frade, E.M.; Middri, M.; Mazi, C.R.; Nicolau, W. and Bloise W. Gonadal and Intersex Unit, Hospital das Clinicas, University of Sao Paulo, Sao Paulo, Brazil.

The laboratory diagnoss of true puberty (1pp) relies on LH response to GnRh administration (aLH, Sl5mlU/ml) in our laboratory) and nocturnal LH secretion. Nevertheeses, some patients with TPP may have prepubertal aLH non the GnRH test, we compode the 24 h, LH and F5H secretion with the GnRH test in 4 girls with TPP (cases 1p4) of girl with previous ovarian cyst (case 5) and I girl with previous ovarian cyst (case 5) and I girl with uptoperature pubarche (cases 6). Blood was drawn every 20 min vol <7/ml/kg/24ms) through an 1y catheter; meals, daily activities and nocturnal sleep were maintained. LH and F5H determinations were great in duplicate, in the same assay, and pulses were analysed by the same assay, and pulses were analysed by the hand for the compatible computer. Diurnal period was 8-20 hs and nocturnal 20:20 7:40 h. Mah-s compatible computer. Diurnal period was 8-20 the assay (<10 pg/ml) throughout the 24 ms.

CAS	E C.A (years)		.) 1	PUBERTAL STAGE	AFTER GnRH 100 ug		LH(mIU/ml)		NOCTURNAL LH/ DIUERNAL LH	
		В	REAST	PUBIC HAIR	∆LH mIU/ml	ΔFSH mIU/ml	MEAN 24	MAX I MUM PULSE	NUMBER OF PULSES	AREA UNDER PULSE MIU/ml
1	5.58	6.5	11	I	27	41	2.49+0.29	3.2	3/1	10/3
2	6.5	7.83	i []	1	36	15	2.89+0.29	3.9	9/7	74/79
3	7.33	10.5	111	11	11.5	6.4	3.28+2.63	13	6/2	120/19
4	7.58	7.83	111	11	12	29	3.12+1.52	8.4	5/2	119/15
5	4.83	6.83	Ш	I	4.1	17	3.1 ±0.2	3.8	3/1	35/9
6	5.83	6.83	I	f I	4.3	22	3.1:+0.34	4.0	7/4	57/51

A predominance of nocturnal LF secretion (area and number of pulses) was observed in 3 patients with IPP. The 2 patients with IPP and ALH (15 mlU/ml also had predominant nocturnal LH secretion. Cases I and 2 with IPP had ALH 15 mlU/ml and case I with a pubertal BLH had the lowest area under LH pulses, even lower than the patient with premature pubarche. We concluded that analysis of 24h. LH and 15 ml secretion of one of the patient of one of the public secretion.

XX TRUE HERMAPHRODITISM ASSOCIATED TO MULTIPLE MALFORMATION:ABSENCE OF Y-SPECIFIC DNA SEQUENCES AND NORMALH-Y ANTIGE EXPRESSION SEQUENCES AND NORMALH-Y ANTIGE EXPRESSION OF A CONTROL OF A

partment of immunology, Biomedical Sciences Institute, University of São Paulo, Brazil.

True hermaphroditim occurs when ovarian and testicular tissues are present in the same patient and usually is not associated to other malformation. We studied a patient with ambiguous genitalia from day 6 of life phallus measured 3 cm, urethral and vaginal orlices were separate, slight posterior labial fusion and left(L) gonad palpable in the ingunal region, & Chomatino no buccal smear was positive great testosterone increase (clo to 832 mg/dl). Ultrasomation evalued thems and tubes but no intrabdominal quonds. The patient was assigned a female sex and at 16 month exploratory laparotomy revealed uterus, tubes, an ovary on the right(R) and an ovotestis on the , which was removed.

The patient had, multiple malformation: cranial asymetry, telecantum greater one with feractors, and the sex of the content of t

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PREMATURE TELARCHE(PT): STUDY OF ITS FRECUENCY AND ETIOLOGICAL FACTORS. PRELIMINARY REPORT. Youlton R., Valladares L., García H., Cattani A., Jara A., Tijmes J. and Venegas P. University of Chile, Catholic University of Chile, Metropolitan Halth. Services of Santiago and Clinica Las Condes. Santiago. Chile.

In the last 10 years there has been an apparent increase in the number of cases of PT. 460 normal healthy girls of different socio-economic (SE) groups were specifically examined to detect the presence of PT. 65 of them had palpable breast tissue \(\) \(\) \(\)