TRANSIENT NEONATAL HYPERTHYROTROPINEMIA. Sgarbi J.A., Novaes M., Biancalana M.M., Dualibi L., Werner R.S., 11 Romaldini J.H. Dept of Endocrinology and Neonatology, HSPE-IAMSPE, CP 8570, Sao Paulo, Brasil.

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 concentrarions 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 $3\bar{8}$ 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%), cclampsia (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 pafrom 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 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 page 12 to 12 to 12 to 13 to 14 to 15 t 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.

24 HOUR GROWTH HORMONE SECRETION IN GIRLS WITH SEXUAL PRECOCITY. Mendonga B.B., Villares S.M., Domenice S., Arnhold 1.J.P., Dahia P. L.M., Golabeck J., Liberman B., Bloise W. and Nicolau W. Division of Endocrinology — Hospital das Clinicas — University of Sao Paulo Medical School, Sao Paulo, Brasil.

Twenty four hour growth hormone (ch) secretion has been determined to classify patients with growth disorders, a mean (x) 3, ng/dl considered GH neurosecretory deficiency. We studied GH secretion in 6 girls with sexual precocity submitted to 24 hour evaluation of LH and FSH secretion, 5 patients had breast, development (lanner stage III-III), advanced height and/or bone age (cases 1-5) and one girl advanced height and bone assessmeats stage Inpublic hair stage III) as well as advanced height and bone assessmeats stage Inpublic hair stage III) was well as advanced height and bone assessmeats stage Inpublic hair stage III) was well as advanced height and bone assessmeats stage III with severe the second of the seco

CASE	C.A. yrs.	sds height	B.A. yrs.	GH (ng/ml)						
	yrs.	nergnc		x 24 h	MAX. PULŠE	NIGHT PERIOD		24 h PER100		
						n pulses	area	n pulses	area	
123456	4.83 5.55 7.53 7.53 7.53	+2.5 -0.52 +2.8 -0.14 +0.21 +0.43	6.83 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	356543	33 106 200 225 158 245	88 109 7 6	61.2 137.9 240 324 202 286	

variation in GH secretion was observed among the patients, but with predomi-of nocturnal secretion. There was no correlation of height SDS with either secretion or diurnal or nocturnal GH area. In 2 patients, despite normal 2) or elevated (case) height, X 24 h GH secretion was 3 ng/ml. cluded-that 24 h GH secretion in girls with sexual precocity is heteroge-int dead to ower than 3 ng/ml challenging this values as a limit for in the evaluation of growth disorders.

HOUR LH AND ESH SECRETION AND RESPONSE TO GNRH IN GIRLS WITH UAL PRECOCITY: Obmenise S.: Mendonca, B.B.; Villares, S.M.; Nold, I.J.P.: Frade, E.M.; Midori, M.; Mazi, C.R.; Nicolau, W Bloise W. Conadal and Intersex Unit, Hospital das Clinicas, versity of 350 Paulo, São Paulo, Brazil.

The laboratory diagnosis of true puberty (Ign) relies on LH response to GRM administration (ALH) Ismll/ml in our laboratory) and nocturnal LH secretion. Nevertheless, some patients with IPP may have prepubertal ALH on the GRM lest. We compared the 24 h, LH and FSM secretion with the GRMH test in 4 girls with IPP (Cases of the Secretion with the GRMH test in 4 girls with IPP (Cases of Secretion Secretio

CAS	(years)	(years) Pi		PUBERTAL STAGE	AFTER GnRH		LH(mIU/ml)		NOCTURNAL LH/ DIUERNAL LH/	
		B	REAST	PUBIC HAIR	∆LH mIU/ml	∆FSH mIU/m1	MEAN 24	MAX IMUM 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	111	I	4.1	17	3.1 <u>+</u> 0.2	3.8	3/1	35/9
_6	5.83	6.83	. 1	- 11	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 TPP. The 2 patients with TPP and ALH (15 mly/ml also had predominant nocturnal LH secretion. Cases I and 2 with TPP had ALH) 15 mly/ml and case I with a pubertal ALH had the lowest area under LH pulses, even lower than the patient with premature pubarche, We concluded that analysis of 24h. LH and SH secretion oid not offer a definitive method for diagnosis of TPP due to the netrogeneity of gonadotropin secretion.

XX TRUE HERMAPHRODITISM ASSOCIATED TO MULTIPLE MALFORMATION:ABSENCE OF Y-SPECIFIC DNA SEQUENCES AND NORMAL H-Y ANTIGEN EXPRESSION Arnhold 1JP 1, MENDAGE 6B 1; Bloise W 1, Frade EM Y; Russo FO 2; Medeiros MA 1; Ferraz-Costa IE 2; Moreira-Filho CA 2: 1 Intersex production of the control of th

partment of Immunology, Biomedical Sciences Institute, University of Sao Paulo, Brazil.

True hermaphroditism 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 to filite, pallus measured 3 cm, urethral and the patient with members of the patient with ambiguous genitalia from day to filite, pallus measured 3 cm, urethral and the patient with patient were separate, slight posterior labial fusion and left(t) 28% and karyotype in peripheral lymphocytes 46 xX. Polo Scienulation was peaked in great testosterone increase (q10 to 832 mg/d1). Ultrasonography revealed uterus and tubes but no intrabdominal gonads. The patient was assigned a female sex and at 16 month exploratory laprotomy revealed uterus, tubes, an ovary on the right(R and an ovotestis on the lambit was removal, assymetry, relecantum greater on the patient had, multiple afformation: cranial assymetry, relecantum greater on the patient had, multiple particular and a patient had, multiple particular and the first of the patient was removed and with clinodactilia on the R, 2nd, finger with bilateral macrodactilia and RC (linidactilia and 4th, finger with bilateral campodactilia and lambit and a first control of the patient was mormal (Ht. 73 cm at 1y, 1 mo.). The parents were young and not consanguineous and denied affected relatives. The mother was medicated with napperion the first month in messar and ample in and cephalotin for the multiple patient was born full the patient had no Y-specific UMA sequences, as detected by ZFY probe in Southern Mybridizations (the probe corresponds to a 'chromosome region encompassing the socialed testis determining factor gene, or IDF). Expression of H-Y antigen assayed with monoclonal anti-H-Y antibody and an ELISA was normal sassayed with monoclonal anti-H-Y antibody and an ELISA was normal can be patient so condition. ale sex and the right(R)

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PREMATURE TELARCHE(PT): STUDY OF ITS FREQUENCY AND ETIOLOGICAL FAC-TORS. 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 San-16 tiago 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 \(\) \(\) \(\) In the last 10 years there has been an apparent increase in the number of cases of