For relevant data pertaining to the patients were summarized the Tables, only chromosome studies are to be considered. The patient to be considered.

TABLE : I

No. of Cases Age Sex Clinical Finding

Chromosomal Studies in Cleft Lip And/Or Palate (*)

Bekir Sıtkı ŞAYLI, M. D. (1) — Şakir AKÇA, DDS (2) Samimi DEMİRALP, DDS (2) — Selahattin OR, DDS (2)

Cleft lip and/or palate is an entity created by both hereditary and non-hereditary factors, thus constituting a heterogenous group in nature. It is commonly associated with other congenital malformations, and is seen in such conditions as D- and E-group trisomy syndromes.

In this report findings are given in a group of patients with the condition with special attention to the chromosome constitutions.

Materials and Methods

There were 20 patients with cleft lip and/or palate from different parts of the Country. Their distribution with respect to the age, sex, and other relevant clinical findings are shown in the Tables. Standard 3-day lympochyte cultures were set up for each case, and the karyotypes analysed by the routine Giemsa technique.

^(*) Reported in VI. Balcanic Medical Congress.

⁽¹⁾ Ankara University Medical Faculty. Dept of Genetic.

⁽²⁾ Ankara University Faculty of Dentistry, Dept. of Oral Surgery.

Observations

For relevant data pertaining to the patients were summarized in the Tables, only chromosome studies are to be considered.

TABLE : I

No. of Cases	Age	Sex	Clinical Finding
1	3	F	CLP
2	5	M	
3	3		CLP Smozomers
4	4	F	
5	2		CLP
6	2	M	CLP
7 (5) 60	6	NA	CLP
8 (8) 500	6		M. L. CLP in a tive a
9	4		Sad 'd Chiwao Imimas
10		M	CP
	0 5010510	an M. Ity	CP+Other relevant c
lom11otingon	1	M	flical findings
	no C an	Scoutilly and	CP+Other relevant control of the con
12	5	M	nical findings
13	3	E	CP .semonony
101114	2	ni-having s	CP and other
15	4	amre) no	this 19 1050s Milw nellibros
16	4	F	CL
17 atplea		N	Moterials and Meanage
0/18	6	HIVE CHIW	There were 20 pJO nts
DT19 10 01 01	0	INI TO THE	Chuod and to strop the
9 20 Tone 101	1m	The American	and CL vois nario bno xag
rechnique.	e Giomsu	nituot ans	CL Median CLP and other relevant clinical findings

tuodo in vidosint O benueco enero una policio nem eliberte enero o Ob				
No. of Cases	bework at Finding	Clinical Finding		
1	46, xx, inv (2) - Pericentric in-	CLP dilad ros lamondo		
T-17	version No: 2	The last case with		
fielg no	46, xx, i (2p) - Isochromosome	XX, + G mosqielsm. Q13 in and palate outper cong		
	46, xy, - abnormalities of No: 2 and 12	prominent exclput, squo nellett en abnormal tissue of		
FURCEIT	47, xy, + 13 nom-1 apw and alin	CP+other relevent clinical		
5	46, xy, / 47, xy, + 13	CP+other relevent clinical findings		
	45, xx, - 18/47, xx, + 21	Median Cleft Lip and Palate + other relevant clinical		
	some annurmo fies and that the	findings anonagomon view		
gil file	culties are not consistent in the cl	dses, ciromosome outoim		

Out of 20 patients 14 revealed no numerical or structural chromosom aberrations. In the remaining 6 there were both structural and numerical abnormalities as fellows:

- 1. In one case with cleft lip and palate, modal chromosome number was reported to be 46 and sex chromosome constitution as XX. In about 50 percent of the cells so far analysed, there were 3 No. 1 chromosomes indisguishable from each other; therefore, it has been considered that a pericentric inversion of No. 2 was involved.
- 2. In the second patient with again cleft lip and palate, 46, XX. 2pi abnormality was found. The incidence of abnormal karyotypes was about % 50.
- 3. The third case with cleft lip and palate was a male with 46, XY constitution, but assymmetrical constellations of Nos. 2 and 12 were noted.

Numerical anomalies were in the following:

In 2 patients with cleft palate there occured D-trisomy in about 40 percent of the cells. These 2 cases were described as D1-trisomy mosaics. One of theme, in addition to cleft palate, showed a lowbirth weight, hypertelorism, epicanthal folds, micrognathia and an 46, xx, inv (2) - Pericental of in

The last case with the condition exhibited a 45, XX,-E/47, XX, + G mosaicism. In this case too in addition to the median cleft lip and palate other congenital malformations were observed; mainly, microcephaly, a low-brith weight, closed crainial sutures, a prominent occiput, short neck, epicanthus, microphthalmy on the left an abnormal tissue of about 4 to 5 cm in size on the left back, a peculiar dermatoglyphic pattern and spasticity. Her body measurements were as follows while she was 1-month old: head circumference, 27 cm; chest circumference, 31; height, 47.5 cm, and weight, 2.8 kg. mayeles rentols Et + 17, XV. + 13

Discussion and Result

The results indicate that, although in an appreciable number of cases there are chromosome abnormalities and that the relatively homogenous clinical picture, apart from D-trisomy syndrome cases, chromosome abnormalities are not consistent in the cleft lip and/or palate. It has also been shown that chromosomal abnormalities in the condition are quite heterogenous, a result supported by different works. and the remaining o there were mosom

It seems clear that more studies are required to establish the chromosomal basis of the cleft lip and/or palate. number was reported to be 45 and sex an ampene constitution as XX. In about 50 percent of the cells so for analysed, there were