Speech and Socio-Vocational Aspects of Individuals with Cleft Palate

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As part of the research program in the area of cleft palate in the Department of Otolaryngology and Maxillofacial Surgery, University Hospitals, a follow-up study was conducted involving 39 individuals with a cleft of the lip and/or palate, born in 1946–47 and subsequently admitted to this hospital. The purpose of recalling these individuals was to evaluate a) facial growth and dentition, b) adequacy of surgical procedures, c) speech skills, and d) social adequacy and general adjustment. In this manner it was hoped that more information would be gained about the effectiveness of habilitative procedures and results. Reported in the present paper is a portion of the results of these evaluations, specifically: speech, esthetic appearance, and social adequacy and general adjustment. Table 1 presents the type of cleft and type of management for all subjects.

Procedure

Speech evaluations for each subject consisted of the following: a) the 43-item Iowa Pressure Articulation Test (1), b) a 100-item articulation test composed of the IPAT plus 57 additional items from the Templin-Darley Tests of Articulation (6), c) a sentence articulation test of the 43 pressure items, using the sentences in the Templin-Darley manual, d) a sample of spontaneous connected speech rated by the examiner and by a panel of five trained judges for articulation defectiveness and nasality, and e) oral manometer ratios with and without bleed. Subjects were also questioned about their own evaluation of their speech proficiency.

APPEARANCE. Esthetic appearance was evaluated from a full-face black and white photograph of each subject. The examiner and five other judges rated appearance on a seven-point equal-appearing intervals scale with a rating of 1 representing normal cosmetic appearance

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lip only		lip, palate		palat	e only	total
M	F	M	F	M	\mathbf{F}	
4	4	17	6	4	4	39
total 8		2	3	8	3	39
		M	\mathbf{F}	M	\mathbf{F}	
obturation		3	2	1	1	7
surgery without flap		7	1	3	2	13
surgery with fla	ıp	7	3	0	1	11

TABLE 1. Type of cleft and type of management for all subjects.

and a rating of 7 representing very poor appearance. Subjects were also questioned as to their feelings about the results of cosmetic surgery.

Social Adequacy and General Adjustment, a comprehensive case history was devised using questions selected from a larger battery constructed by Spriestersbach and Powers (3). Subjects were questioned about their family background and relationships, their educational experience, their social experiences, their vocational plans, their knowledge of matters pertaining specifically to cleft palate, and their attitudes toward their speech and appearance. Their responses were evaluated from the standpoint of what one would reasonably expect from the normal population, as defined from considerable clinical experience.

Results and Discussion

Speech. Table 2 presents mean scores for the total group and for various subgroups as classified by type of cleft and by sex for each of the speech measures previously mentioned. The distribution of answers to speech-related questions from the interview is included in the Appendix.

As would be anticipated, the best scores on the speech measures were achieved by the cleft lip only group. These subjects made minimal errors on the articulation measures, were rated normal or near normal in both articulation and nasality, and achieved the highest manometer ratios. The cleft lip and palate group made the poorest scores on the speech measures, while the scores of the cleft palate only subjects fell midway between those of the other two groups. Manometer ratios indicate that, on the average, the subjects achieved at least marginal velopharyngeal closure (2). In all three groups, the male subjects show poorer performance than the female subjects on all of the speech tasks and the speech ratings.

As a group, the subjects in this study did not exhibit severe speech problems, although only a few of the subjects with cleft of the palate (either with or without cleft lip) had entirely normal articulation and

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	N	43 item	43 item sentences	100 item	artic (exam)	nasality (exam)	artic (judges)	nasality (judges)	esthetic appearance	manometer w/ bleed	manometer w/o bleed
total group	39	35.66	33.15	86.33	2.13	2.13	2.56	2.93	3.92	.85	.87
cleft lip only	8	41.63	41.50	98.00	1.13	1.00	1.54	1.91	3.93	.96	.95
male	4	40.75	40.25	96.50	1.25	1.00	1.55	2.05	4.45	.97	.98
female	4	42.50	42.75	99.50	1.00	1.00	1.53	1.73	3.40	.965	.92
cleft lip-palate	23	32.83	29.44	80.83	2.65	2.70	2.90	3.34	4.62	.78	.83
male	17	30.47	27.06	76.82	2.88	2.82	3.15	3.48	4.52	.75	.80
female	6	39.50	36.17	92.17	2.00	2.33	2.20	2.93	4.90	.87	.91
cleft palate only	8	37.88	35.50	90.50	1.63	1.63	2.46	2.60	1.89	.95	.91
male	4	37.75	34.50	88.50	1.75	1.75	2.75	2.80	2.00	.92	.88
female	4	39.00	36.50	92.50	1.50	1.50	2.07	2.33	1.78	.98	.93
all palatal clefts											
(lip and palate,											
palate only)	31	34.13	31.00	83.32	2.39	2.42	2.80	3.17	-	.824	.85
all lip clefts (lip											
only, lip and											
palate)	31	_	_		_				4.44	_	
		1		l	. '			·			

TABLE 2. Mean scores of articulation, nasality, esthetic appearance and manometer ratios for the total group of subjects and subgroups.

voice quality. Certainly, speaking skills could not be regarded as an asset to these individuals, and in some cases speech was sufficiently deviant to be a hindrance to social and vocational pursuits. When questioned about their attitudes toward their speech, the majority of subjects indicated that they were satisfied or nearly satisfied with the current status of their speech and did not regard it as a major problem. Yet 16 of these individuals reported they still had a speech problem and 25 indicated that they had not participated in activities which required speaking. Ten individuals felt that they might be refused dates because of their speech problem.

APPEARANCE. Scale scores for esthetic appearance (cosmesis) are presented in Table 2, and the distribution of answers to interview questions related to appearance is included in the Appendix. As would be expected, esthetic appearance was rated most defective in the cleft lip and palate group, especially among female subjects, whose mean rating was 1.5 scale points above that of the cleft lip only females. Subjects with clefts of the palate only were rated as normal or near-normal in esthetic appearance.

As a group, during the interviews, subjects tended to express more concern about their appearance than about their speech. Twenty-one subjects reported that, to varying degrees, they were bothered by the way they looked, and six of the subjects indicated that appearance was their biggest problem at the time of interview.

SOCIAL ADEQUACY AND GENERAL ADJUSTMENT. The specific questions

and the distributions of answers which are felt to deal with social adequacy and general adjustment are presented in the Appendix. The purpose of the following discussion is to present what are considered to be the salient points derived from each group of questions.

Family. This group of individuals did not appear grossly different from what might be expected from normals in their family relationships; however, in most families one might expect more teasing than the 39% reported by this group. Spriestersbach and Powers (3) reported that 64% of their control subjects indicated teasing at home; while the cleft group reported a much lower incidence. It is possible that parents of these cleft children may directly or indirectly tend to protect them in the home environment because of their concern or their own guilt feelings. Subjects did not report more disobedience than their siblings, nor from these interviews was the impression gained that these subjects demonstrated hostility toward their parents or tended to blame them for the cleft condition.

School History. The information obtained regarding academic achievement, future education, and participation in school activities did not appear, at least on the surface, to differ markedly from expectations from the normal; however, the dropout rate appeared greater than average for Iowa (4), and the per cent of subjects planning a college education was 8% lower than the state average (5). Although it is difficult to interpret participation in school activities, these individuals were generally from small schools where most students are probably active participants. From the subjects' replies, it was the interviewer's impression that they did not appear very active (the subjects often found it difficult to name specific activities that they were involved in) and were seldom leaders in their peer group (only 5 subjects had ever been an officer in a school activity group). Nine subjects had not participated in any activity and the majority fell below the reported state average of high school graduates of 2.46 extra-curricular activities (5).

Vocational Planning. Vocational ratings are presented in Table 3. Although 20 subjects reported that they had discussed their vocational plans with a school counselor, vocational counseling appeared to involve primarily the selection of high school courses, and none of the subjects had taken vocational tests or received vocational guidance. Ten of the subjects had not yet discussed their future vocation with anyone. It was the examiner's impression that many of the subjects were unrealistic about their future vocations. For example, one girl hoped to be a concert singer, although she had a cleft of the palate, obturated, with good but somewhat faulty voice quality and articulation. Another boy was uncertain as to whether to be a doctor or a coach, yet an IQ estimate placed him in the borderline of intellectual functioning. Another girl was employed as a dishwasher in a small town restaurant, although she tested in the bright-normal range of intelligence. Although some of the individ-

TABLE 3. Vocational ratings for 39 cleft subjects as determined by the Index of Status Characteristics (7). Ratings were made on planned vocation, expected vocation, choice vocation, and present employment.

	planned vocation	work 10 years from now	preferred vocation if free to choose	present employ- ment
Level 1				
(Professions, owner of large business,				
executive)	1	3	4	
Level 2				
(High school teacher, accountant,				
realtor, office manager)	12	9	12	_
Level 3				
(Grade school teacher, small business-				
man, secretary, small contractor)	5	3	6	_
Level 4				
(Typist, construction foreman, police				
captain, small land owner, plumber,				
electrician)	6	10	6	2
Level 5				
(Clerk, telephone lineman, tenant on				
farm, telephone operator)	5	3	1	8
Level 6				
(Semi-skilled factory worker, janitor,				
taxi driver, waitress, watchman,			_	
cook)	3	2	2	9
Level 7				
(Laborer, unskilled miner or mill hand,				
domestic servant, migrant worker,	_			
unemployed)	1	0	0	6
Undecided	6	9	8	_

uals appeared to have the initiative and drive to reach their vocational goals, others, perhaps equally as bright, appeared to have accepted whatever was available and had little drive for improvement. It is of interest to note that the second highest wage earner had been a special education student. Many subjects were uncertain about their capabilities and showed a definite need for counseling.

Social. When these 18- and 19-year-old subjects were asked whether the presence of a cleft had influenced their social relations with people, twenty-four reported that the cleft had made no difference, and twelve subjects reported that the cleft was a handicap in varying degrees in their social relationships. However, twenty-three individuals reported that they had not belonged to a social organization and nine additional individuals indicated that although they belonged to an organization they were not active. Seven of the individuals reported that they preferred to do things with one other individual instead of with a group, and four individuals reported that they had no social activity. The majority

of subjects also indicated that they did not enjoy entering new situations and meeting people. It is also of interest to note that ten subjects reported that they brought friends to their home only once or twice a year.

A realistic impression of these individuals regarding social activity would appear to be that they are observers rather than active participants. When social participation was required, for example in dating, these individuals were less active and appeared less certain of themselves and their ability to function in a social situation than one would expect of normals. For example, 15 individuals stated that they had never dated or only dated once or twice a year, while 22 indicated that they had difficulty or had, in their opinion, been refused dates because of their cleft condition.

Cleft History. During the interviews it also became apparent that although most of these subjects had been under active medical treatment for many years, they were startlingly ill-informed about matters related to cleft palate, such as causes, incidence, and hereditary factors. For example, 22 subjects reported that they had never been told the cause of the cleft. None of the subjects felt that he would probably have a child with a cleft of the palate. Certainly the social and vocational adjustment of these individuals would be facilitated by counseling about the nature and causes of these problems. Teenagers who are considering marriage should be aware of the hereditary factors involved. It appeared that the cleft condition had not been thoroughly discussed with these subjects, either by medical personnel or at home.

Discussion

Since many of these young adults had had management of the cleft and perhaps speech therapy a number of years ago, inferences from these findings about current cleft palate patients who receive management must be made with great care. We hope that care has improved; however, based on the sample obtained, we feel that this sample is probably representative of the 1946–47 cleft palate population. Therefore it appears important for each of us to consider what areas of habilitation should be improved in our current treatment programs.

Summary

The purpose of this study was to evaluate the speech proficiency, esthetic appearance, social adequacy and general adjustment of 39 individuals born with a cleft in either 1946 or 1947. As a group, these subjects did not exhibit severe speech problems, yet in comparison to the goals of present habilitative measures both the speech and cosmetic appearance of the group were often poor. Although in this type of study it is impossible to evaluate objectively the effects of speech and appearance on the personality and earning power of the individual, it appears that

having had a cleft palate does influence the social behavior and selection of employment by these individuals. The results reported here indicate that the cleft palate team needs to be concerned not only with management and care, but also needs to be aware that young adults with a cleft of the lip and/or palate may need careful vocational counseling. The young cleft palate adults also may need more information about the incidence and etiology of clefts, particularly when they reach the age where they are ready to consider marriage and having children. Members of the team should ask themselves, Does our team provide the rehabilitative services and counseling needed by the young adult individual with a cleft?

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Appendix. Interview Data. Ns Vary.

SPEECH

When subjects were questioned about their speech they responded as follows: do you feel you still have a speech problem? yes, a little only one sound yes have you ever had a speech problem? other how much speech therapy did you have? 1 to 2 years in public school 2 to 4 years in public school more than 4 years did speech therapy help you? 8 yes, some

	I don't know	7
	no	1
hov	v did you like your speech therapy program?	
	I never attended a therapy class	17
	I was enthusiastic	5
	it was all right	10
1	I was very uninterested	6
wna	at is the most outstanding aspect of your speech problem now?	
	none	2]
	talking too fast	1
	one or two sounds are poor	6
	nasality	
	general—several sounds are poor	6
0.20	otheryou satisfied with your speech now?	1
are		กก
	very happy, better than I had hoped	23 ح
	no better than it was to begin with	อ
	other	
har	ye your close friends reacted to your speech?	1
11a v	they don't seem to see any difference	01
	they asked about it) T
	it really bothers them	4
	other	
o at	ivities specifically involving speaking, such as school plays, subjects gar	1
tho	following replies:	ve
uie	frequent participation	c
	occasional participation (once or twice)	6
	opportunity offered, but no participation 2	o กก
	would have participated, but no opportunity	4U د
how	v frequently do you talk on the telephone?	2
110 V	at least once a day	1 1
	once or twice a week	
	once or twice a month	
		8
hou	other of ten do you worry about what outsiders think about your speech?	o
110 W	never think about it	3 1
	not speech that worries me	າ T
	once in a while	o
	77 . 7	5
hav	e you ever been afraid that girls (boys) would refuse to date you because	
	our speech	50
OI y	no	Ω
	never think about it	
	yes, sometimes	
	j co, someomics	LU
FAMILY		
Family	socio-economic status was determined by use of the Index of Statu	18
Charact	eristics (7) for each subject. This index is computed by determining the	ıе
father's	occupation, source of income, education, and type of family dwelling	g.
Subjects	fell into the following socio-economic classifications:	٥.
·	_	2

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upper-middle	4
lower-middle	15 14
upper-lowerlower	4
To evaluate family relationships and discipline practices subjects were asked	$_{ m the}$
following:	
do you think of your family as a close family?	10
very close	12 13
averageeach goes own way	13
other	1
how well do you enjoy being at home with your folks?	
rather be at home	11
average	9
rather be on own	$\frac{17}{2}$
other	4
are you teased at home (now or as a child)? not at all	26
sometimes	
very often	5
other	1
if you are teased, what are you teased about?	10
other things, not related to cleft	$\frac{10}{2}$
having cleft	
and sisters?	
more lenient	
about the same	
less lenient	
otherdid you disobey your parents more than your brothers and sisters did?	1
obeyed more	7
about the same	23
obeyed less	7
other	
School	
Subjects were questioned about their academic achievement, their plans for fut	ure
education, and their participation in school activities.	
how well do (or did) you like school?	15
liked it "very much" liked it "fairly well"	
liked it "as well as the average student"	-
did not like school	10
subjects evaluated their work in school as follows:	
excellent	
better than average	10 18
average fair to poor	
are you currently in school?	J
yes, in college	. 8
yes, in high school	10
yes, in trade school	

Vocational Plans

reported as follows:

do you plan to continue your education?

Subjects were asked about their present employment, what kind of employment they expected to have ten years from time of interview, and what kind of work they would choose if they could do anything they wished. These responses were ranked on the Index of Status Characteristics and were distributed among the levels of the Index as presented in Table 3. were vocational plans ever discussed with you and if so by whom?

subjects reported their participation in school activities as follows:

SOCIO-VOCATIONAL ASPECTS

yes, school counselor yes, parent, teacher, adult, friend no are you satisfied with your present employment and does it utilize and su your abilities? yes	20
are you satisfied with your present employment and does it utilize and su your abilities? yes	
your abilities? yes	
yes	it
0 m o m o m o (h u u u u u u u u u u u u u u u u u u	
average (but not satisfied)	
no	
what is your income at the present time and what kind of a job do you have	?
salary, full time job	
50–75 \$ a week	
75–100 \$ a week	
above 100 \$ a week	
part-time job	
	6
none	١0
other	1

SOCIAL HISTORY

Individuals were questioned about their social activities, their relationships with other people, their evaluations of their own personalities, and their plans for marriage and a family.

what organizations do you belong to?	
belong to three or more, am quite active	3
belong to one organization, am active	

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belong to one organization, am not active	$\frac{9}{23}$
have you ever held an office in an organization?	
ves	Э
no	34
when subjects were asked to describe their general participation in so	cial
activities they responded as follows:	
take an active part in social group activities	2
active part in social group activities occasionally	1
informal group activities, e.g. attending ball game	11
infrequent, but some participation	7
activities with one other person or by self	14
no activity	4
who is your closest friend and how old is he (she)?	
same sex, same age	26
same sex younger	5
opposite sex older	3
opposite sex same age	3
opposite sex younger	2
do you like to join in new situations—meet new people?	
do join in and enjoy it	. 15
do join in but don't enjoy it	. 2
don't care to join in	. 16
want to join in but never have a chance	. 5
other	. 1
how often do you bring friends to your home?	
daily or on weekends and vacations	. 6
once or twice a week	. 14
once or twice a month	9
once or twice a year	. 10
how frequently do you take part in spare time activities—movies, dance	ing.
playing cards, music participation, sports participation, sports enjoym	ent.
pleasure trips, parties?	
every day	. 2
on weekends	
once or twice a week	
once or twice a week	. 4
once or twice a month	. g
once or twice a year	. o
when subjects were asked what they would change if they could change if they could change if they could change if they could be subjects were asked what they would change if they could change if they can be considered in the change in the cha	ange
two things about themselves, their answers were categorized as follows:	e
both changes related to the cleft	10
one change related to the cleft, one to another characteristic	. 10
neither change related to cleft	. 14
when subjects were asked if they felt they had more problems than other t	een-
agers, they responded as follows:	-
no more problems than peers	. 14
no problems at all	. 13
sometimes have more problems	
definitely have more problems	
does it seem to you that others find it easier to do things than you do?	
not at all	. 19
sometimes—average	. !
a little more than average	

yes	
other	. 2
do you worry about what others think of you?	
no, I_don't let it worry me	. 9
yes, I worry some	. 25
yes, I worry all the time	. 5
if you could change two things about yourself what would you change	?
cleft and speech, cleft and scar, scar and speech	. 6
physical (other than cleft) and one cleft aspect	. 14
noncleft related, physical-emotional	. 1
other, one certain cleft	. 5
other	. 19
do you fool you have any parsonality or a division and malalana?	. 13
do you feel you have any personality or adjustment problems?	
no more than others	
not at all	. 13
sometimes	. 5
yes, definitely	. 5
other, professional help	. 2
as you see it, what do you feel your main problem is at the present tim	e?
physical health	. 2
social adequacy	. 4
appearance	. 6
speech proficiency	. 1
school-vocational	. 10
finances	. 10
mances	. 7
no main problem	. 4
no main problem	. 4
other	. 4
no main problem other	. 4
other	. 4
other	. 4
other Marriage When subjects were questioned about their plans for dating, marriage, and fuchildren, they responded as follows:	. 4
other Marriage When subjects were questioned about their plans for dating, marriage, and fuchildren, they responded as follows: are you married:	. 4
other Marriage When subjects were questioned about their plans for dating, marriage, and fuchildren, they responded as follows: are you married: yes yes	. 4 iture . 2
other Marriage When subjects were questioned about their plans for dating, marriage, and fuchildren, they responded as follows: are you married: yes engaged to be married	. 4 . ture . 2 . 2
other Marriage When subjects were questioned about their plans for dating, marriage, and fuchildren, they responded as follows: are you married: yes engaged to be married no	. 4 . ture . 2 . 2
other Marriage When subjects were questioned about their plans for dating, marriage, and fuchildren, they responded as follows: are you married: yes engaged to be married no do you plan to get married?	. 4 uture . 2 . 2 . 35
other Marriage When subjects were questioned about their plans for dating, marriage, and fuchildren, they responded as follows: are you married: yes engaged to be married no do you plan to get married? married or plan to marry	. 4 uture . 2 . 35 . 27
other Marriage When subjects were questioned about their plans for dating, marriage, and fuchildren, they responded as follows: are you married: yes engaged to be married no do you plan to get married? married or plan to marry I don't plan to marry	. 4 sture . 2 . 35 . 27 . 8
other Marriage When subjects were questioned about their plans for dating, marriage, and fuchildren, they responded as follows: are you married: yes	. 4 sture . 2 . 35 . 27 . 8
other Marriage When subjects were questioned about their plans for dating, marriage, and fuchildren, they responded as follows: are you married: yes	. 4 uture . 2 . 35 . 27 . 8 . 4
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other Marriage When subjects were questioned about their plans for dating, marriage, and fuchildren, they responded as follows: are you married: yes engaged to be married no do you plan to get married? married or plan to marry I don't plan to marry other how frequently do you date? once or twice a week once or twice a month	. 4 uture . 2 . 35 . 27 . 8 . 4 . 10 . 14
other Marriage When subjects were questioned about their plans for dating, marriage, and fuchildren, they responded as follows: are you married: yes engaged to be married no do you plan to get married? married or plan to marry I don't plan to marry other how frequently do you date? once or twice a week once or twice a month	. 4 uture . 2 . 35 . 27 . 8 . 4 . 10 . 14
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other Marriage When subjects were questioned about their plans for dating, marriage, and fuchildren, they responded as follows: are you married: yes	. 4 uture . 2 . 2 . 35 . 27 . 8 . 4 . 10 . 14 . 9
other Marriage When subjects were questioned about their plans for dating, marriage, and fuchildren, they responded as follows: are you married: yes	. 4ture . 2 2 2 35 . 35 . 27 . 8 4 . 10 . 14 . 9 . 6
other Marriage When subjects were questioned about their plans for dating, marriage, and fuchildren, they responded as follows: are you married: yes engaged to be married no do you plan to get married? married or plan to marry I don't plan to marry other how frequently do you date? once or twice a week once or twice a week once or twice a year never dated do you think it is difficult to get dates? very easy	. 4 . 2 . 2 . 35 . 27 . 8 . 4 . 10 . 14 . 9 . 6 . 4
other Marriage When subjects were questioned about their plans for dating, marriage, and fuchildren, they responded as follows: are you married: yes engaged to be married no do you plan to get married? married or plan to marry I don't plan to marry other how frequently do you date? once or twice a week once or twice a week once or twice a year never dated do you think it is difficult to get dates? very easy is no harder than usual	. 4 . 2 . 2 . 35 . 27 . 8 . 4 . 10 . 14 . 9 . 6 . 4 . 15
other Marriage When subjects were questioned about their plans for dating, marriage, and fuchildren, they responded as follows: are you married: yes engaged to be married no do you plan to get married? married or plan to marry I don't plan to marry other how frequently do you date? once or twice a week once or twice a week once or twice a year never dated do you think it is difficult to get dates? very easy is no harder than usual is somewhat harder than usual	. 4 . 2 . 2 . 35 . 27 . 8 . 4 . 10 . 14 . 9 . 6 . 4 . 15 . 7
other Marriage When subjects were questioned about their plans for dating, marriage, and fuchildren, they responded as follows: are you married: yes	. 4 . 2 . 2 . 35 . 27 . 8 . 4 . 10 . 14 . 9 . 6 . 4 . 15 . 7 . 11
other Marriage When subjects were questioned about their plans for dating, marriage, and fuchildren, they responded as follows: are you married: yes engaged to be married no do you plan to get married? married or plan to marry I don't plan to marry other how frequently do you date? once or twice a week once or twice a month once or twice a year never dated do you think it is difficult to get dates? very easy is no harder than usual it is very difficult other	. 4 . 2 . 2 . 35 . 27 . 8 . 4 . 10 . 14 . 9 . 6 . 4 . 15 . 7 . 11
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appearance other have you ever been afraid that boys (girls) would refuse to date you be	7
cause of your cleft? no	22
yes, no reason not to yes, might have cleft uncertain about having children do you feel that you might have a child with a cleft?	1 7
no, children would be normal	5
CLEFT HISTORY	
Subjects were asked about the history of clefts in their family, their reaction to other individuals with clefts, and individuals' reactions to them. They we asked about their habilitative measures and existing problems which we important to them. Thirty-eight subjects were interviewed for the cleft histor as one subject was mentally retarded and had no knowledge of his cleft history have any members of your family had clefts?	re re y,
parent sibling other	$\frac{3}{2}$
When questioned about their reactions to other individuals with clefts, subject	ets
responded as follows: have you been acquainted with a person who has a cleft?	
responded as follows: have you been acquainted with a person who has a cleft? in family	8 3 6
responded as follows: have you been acquainted with a person who has a cleft? in family	8 3 6 1
responded as follows: have you been acquainted with a person who has a cleft? in family classmate friend in neighborhood while at hospital no acquaintance how much did his or her appearance bother you?	8 3 6 1 20
responded as follows: have you been acquainted with a person who has a cleft? in family classmate friend in neighborhood while at hospital no acquaintance how much did his or her appearance bother you? none just overlooked it bothered some really bothered me	8 3 6 1 20 17 1 8 2
responded as follows: have you been acquainted with a person who has a cleft? in family classmate friend in neighborhood while at hospital no acquaintance how much did his or her appearance bother you? none just overlooked it bothered some really bothered me other In an effort to gain more information about subjects' knowledge of cleft lip as palate they were asked the following questions:	8 3 6 1 20 17 1 8 2 10
responded as follows: have you been acquainted with a person who has a cleft? in family classmate friend in neighborhood while at hospital no acquaintance how much did his or her appearance bother you? none just overlooked it bothered some really bothered me other In an effort to gain more information about subjects' knowledge of cleft lip as palate they were asked the following questions: what have you been told about the cause of your cleft? just born that way	8 3 6 1 20 17 1 8 2 10
responded as follows: have you been acquainted with a person who has a cleft? in family classmate friend in neighborhood while at hospital no acquaintance how much did his or her appearance bother you? none just overlooked it bothered some really bothered me other In an effort to gain more information about subjects' knowledge of cleft lip at palate they were asked the following questions: what have you been told about the cause of your cleft? just born that way heredity never told by anyone other	8 3 6 1 20 17 1 8 2 10 nd
responded as follows: have you been acquainted with a person who has a cleft? in family classmate friend in neighborhood while at hospital no acquaintance how much did his or her appearance bother you? none just overlooked it bothered some really bothered me other In an effort to gain more information about subjects' knowledge of cleft lip at palate they were asked the following questions: what have you been told about the cause of your cleft? just born that way heredity never told by anyone other do you agree with the information given you about the cleft? yes, it was explained well haven't thought too much about it	8 3 6 1 20 17 1 8 2 10 nd 9 3 22 4 8 6
responded as follows: have you been acquainted with a person who has a cleft? in family classmate friend in neighborhood while at hospital no acquaintance how much did his or her appearance bother you? none just overlooked it bothered some really bothered me other In an effort to gain more information about subjects' knowledge of cleft lip at palate they were asked the following questions: what have you been told about the cause of your cleft? just born that way heredity never told by anyone other do you agree with the information given you about the cleft? yes, it was explained well haven't thought too much about it no, it didn't make much sense	8 3 6 1 20 17 1 8 2 10 nd 9 3 22 4 8

in general, how do you feel about the results of surgery?

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very happy, better than I had hoped	21
not as good as I had hoped	6
no better than it was to begin with	$rac{2}{2}$
still not like others	$\frac{2}{7}$
othersis the total effect of the repairs as good as you had hoped?	•
very happy, better than I had hoped	16
not as good as I had hoped	
no better than it was to begin with	$\overline{2}$
still not like others	1
other	8
if available, would you have more surgery done?	
don't feel any is needed	5
depends on what they would do	5
ves. definitely	17
other	11
what are the most frequent questions asked about your cleft?	
why do I have a scar	7
what happened	11
no questions	16
other	4
how do you answer these questions?	0
born that way	8
just happened	$\frac{1}{2}$
"anamistic response"	
I don't know other	
have you had much dental work done?	
never wore braces and/or anterior prosthesis, and had many cavities.	7
never wore braces and/or anterior prosthesis, had good teeth	10
yes, wore braces and/or anterior prosthesis, had average teeth	11
never wore braces and/or anterior prosthesis, had average teeth	10
do you feel the hospitals have done everything that they can do?	
they did better than I expected	26
they did all they could	5
they could have done more	2
other	. 5
do you feel that your parents have done everything they could do for y	our
cleft condition?	
did all they could	32
could have done more	4
other	. ວ
are you shy around adults?	11
not at all	10
about average	. 13
shy at times very shy	. 10
do you think having a cleft handicaps you in doing things with other peol	nle?
not at all (no difference)	. 24
only with some people	. 7
definitely makes it harder	. 5
helps—makes it easier	. 1
other	

who helped you the most in adjusting to teenage problems?	
parents (one or both)	12
sibling, same sex	3
sibling, opposite sex	
friends	
on my own	
other	3
how good are you in sports compared to other people your own age?	
superior	2
above average	
average	
below average	
other	
who do you think would have an easier time growing up, if he or she has	s a.
cleft?	
makes no difference	6
male	
female	
I don't know	
A number of questions were asked relating to the subjects' evaluations of the	m-
selves and their personalities. When asked: What personality traits made the	em
most dissatisfied with themselves, subjects replied:	
not dissatisfied	3
temper	
shyness or moodiness	
cleft condition	4
other factors	