

SUMMARY OF CASES IN GROUP II A

These were the six normal speakers to whom the judges attached the label "stutterer."

## Case Number 11:

Considering all of the data obtained at the beginning, during, and at the end of the experimental period, this subject showed a decrease in fluency as rated and an increase in the percent of speech interruptions. During the experimental period her manner of speaking changed markedly. At the beginning of the period she spoke freely and connectedly, but at the end of the period she was very unwilling to talk and her responses consisted of single words or short phrases.

## Case Number 12:

This subject's fluency rating remained the same, but she showed an increase in the percent of speech interruptions. At the beginning of the period she had been willing to speak in any situation, but at the end of the period it was practically impossible to get her to speak in an unfamiliar situation.

## Case Number 13:

This subject showed an increase in speech fluency as rated and a decrease in the percent of speech interruptions. He is the only subject in this group who decreased the percent of speech interruptions. He is .

however, very conscious of his speech and at the end of the period he spoke more slowly and carefully than he did at the beginning of the period.

Case Number 14:

This subject's fluency rating remained the same, but there was an increase in the percent of speech interruptions. At the end of the experimental period it was almost impossible to get the boy to speak in a situation other than play, whereas at the beginning of the period he spoke freely in a new situation. In school his grades were markedly lower during the last six-weeks period.

Case Number 15:

This subject increased in speech fluency as rated, but she also increased the percent of speech interruptions. This girl's speech had, in increasing number, repetitions, prolongations, and interjections throughout the period. She also ceased to tell stories or converse freely with her playmates.

Case Number 16:

This subject showed a decrease in fluency as rated and an increase in the percent of speech interruptions. During the experimental period she developed mannerisms characteristic of some stutterers, such as "snapping" her fingers to "get a word out." It was also noted that occasionally she presented the phenomenon of writing the same word two or three times in her compositions.

GROUP II B

Consisting of six normal speakers. Matched in age, sex, intelligence, and fluency with the corresponding six normal speakers in group II A. No negatively evaluative label was attached to this group.

Case 17  
Group II B

Date of birth: 3/12/32

Age: 6

Grade: two

Intelligence quotient: 94

Fluency rating at the beginning of the experimental period:  
3

Fluency rating at the end of the experimental period; She  
had the mumps

Handedness test:

	Beginning of Period	End of Period
Dextrality quotient (Angle Board)		
Kinesthetic	.58	No learning
Visual	.65	.78
Eyedness (positions)		
Up	L	L
Right	L	R
Left	R	L
Down	L	L
Convergence (trials)		
1	L	B
2	L	B
3	L	B
4	L	B
Dynamometer (average)		
Right hand	10.8	11.8
Left hand	13	12.5
Dextrality quotient	.46	.49
Spool packing (average in 10 sec.)		
Right hand	5	5
Left hand	4.3	4.3
Dextrality quotient	.54	.54

Description of speech given by the judges at the beginning of the experimental period:

Judge A.

"Adequate speech."

Judge B.

"Repetitions at times."

Judge C.

"Normal speech."

Judge D.

"Articulation poor. Some repetitions."

Judge E.

"Articulatory defect."

Description of speech given by the judges at the end of the experimental period:

The child had the mumps on the day the final judgement was made.

Diatphone Records: Taken at the beginning and at the end of the experimental period:

	B	E
Number of words	181	160
Percent of syllable repetitions	0.00	0.00
Percent of word repetitions	2.21	0.63
Percent of phrase repetitions	2.21	0.00
Percent of interjections	0.55	0.00
Percent of pauses	5.53	6.25
Total percent of speech interruptions	10.50	6.88

Case 18  
Group IIB

Date of Birth: 2/22/30

Age: 9

Intelligence quotient: 97

Fluency rating at the beginning of the experimental period:  
2.8

Fluency rating at the end of the experimental period: 2.6

Handedness test:

	Beginning of Period	End of Period
Dextrality quotient (Angle Board)		
Kinesthetic	.24	.25
Visual	0	.31
Eyedness (positions)		
Up	L	R
Right	R	R
Left	R	R
Down	R	R
Convergence (trials)		
1	L	R
2	L	R
3	R	B
4	R	B
Dynamometer (average)		
Right hand	17.5	17.8
Left hand	17	20
Dextrality quotient	.51	.47
Spool packing (average in 10 sec.)		
Right hand	5.5	5.8
Left hand	5	5
Dextrality quotient	.52	.54

Description of speech given by judges at the beginning of the experimental period:

Judge A.

"Sample inadequate."

Judge B.

"Adequate speech."

Judge C.

"Spoke very little."

Judge D.

"Did not speak continuously."

Judge E.

"Difficult situation for her but speech seemed adequate."

Description of speech given by the judges at the end of the experimental period:

Judge A.

"Low verbal output. Very great unwillingness to talk."

"Not a stutterer."

Judge B.

"Read rather readily but when asked to talk numerous questions failed to bring her out. She appeared unwilling to talk. Answered in monosyllables. Looked down continually and kept biting her nails. Appeared to be afraid of the group."

"No stuttering observed."

Judge G.

"Fluent in reading. Very unresponsive to questions. Said only "spelling" during all of questioning except in last half minute when she responded with one or two word answers about what she had done this morning. Sat looking down, chewing nails, and did not take finger tips from lips. What she did say was said without stuttering. Voice intensity markedly low. Did not seem to enjoy situation. In fact seemed to be somewhat embarrassed or depressed or frightened by it. Read quite freely."

"Non-stutterer."

Judge D.

"No blocks. Very fluent spontaneous speech. Very low verbal output. Seemed very shy in this situation."

"Not a stutterer."

Judge E.

"Reading fluent but it was very difficult to get her to speak. Situation seemed very hard for her. Dictaphone records: At the beginning and at the end of the experimental period.

	B	E
Number of words	341	302
Percent of syllable repetitions	0.58	0.00
Percent of word repetitions	0.88	1.66
Percent of phrase repetitions	0.88	0.63
Percent of interjections	0.00	0.32
Percent of pauses	5.28	0.93
Total percent of speech interruptions	7.62	3.84



Case 19  
Group IYB

Date of Birth: 10/6/28

Age: 10

Grade: 4

Intelligence quotient: 61

Fluency rating at the beginning of the experimental period:  
2.5

Fluency rating at the end of the experimental period: 2.8

Handedness tests:

	Beginning of Period	End of Per.
Dextrality quotient (Angle Board)		
Kinesthetic	No learning	No learning
Visual	.67	.51
Eyedness (positions)		
Up	L	L
Right	L	R
Left	L	L
Down	L	L
Convergence (trials)		
1	L	B
2	L	R
3	L	B
4	L	R
Dynamometer (average)		
Right hand	17	16.5
Left hand	18	14.5
Dextrality quotient	.49	.53
Spool packing (average in 10 sec.)		
Right hand	5.8	6
Left hand	5	5.5
Dextrality quotient	.54	.52

Description of speech given by judges at the beginning of the experimental period:

Judge A.

"Very bad articulation."

Judge B.

"Bad articulation. Many interruptions."

Judge G.

"Articulation very poor."

Judge D.

"Read with difficulty. Bad articulation case, that is, lisp and nasality. Considerable interruptions with some repetitions."

Judge E.

"Reading inadequate. Articulation bad. Interjections and hesitations in speech."

Description of speech given by the judges at the end of the experimental period.

Judge A.

"Articulatory disorder. Not a stutterer."

Judge B.

"Articulatory difficulty. Not stuttering."

Judge C.

"Marked articulation indistinctness and inaccuracy. Seemed to enjoy the situation but was not very responsive except when talking about marbles.

Non-stutterer."

Judge D.

"Seemed very reluctant to speak but no blocks noted. Not a stutterer."

Judge E.

"Articulatory defect. Slightly difficult to get him to talk."

Dictaphone records: At the beginning and the end of the experimental period:

	B	E
Number of words	540	278
Percent of syllable repetitions	.56	0
Percent of word repetitions	.91	.36
Percent of phrase repetitions	.74	0
Percent of interjections	1.11	.36
Percent of pauses	2.22	1.44
Total percent of speech interruptions	5.54	2.16

Case 20  
Group IIB

Date of Birth: 6/5/27

Age: 11

Grade: Six

Intelligence quotient: 99

Fluency rating at the beginning of the experimental period:  
3.4

Fluency rating at the end of the experimental period: 3.2

Handedness tests:

	Beginning of Period	End of Period
<b>Dextrality quotient</b> (Angle Board)		
Kinesthetic	1.00	.52
Visual	.92	.59
<b>Eyedness (positions)</b>		
Up	R	R
Right	R	R
Left	R	R
Down	R	R
<b>Convergence (trials)</b>		
1	L	R
2	L	B
3	X	R
4	L	L
<b>Dynamometer (average)</b>		
Right hand	19.3	16.3
Left hand	16	15.3
Dextrality quotient	.55	.51
<b>Spool packing (average in 10 sec.)</b>		
Right hand	5.3	5.3
Left hand	5.3	5
Dextrality quotient	.50	.51

Description of speech given by judges at the beginning of the experimental period:

Judge A.

"Adequate speech."

Judge B.

"Normal speaker."

Judge C.

"Adequate speech."

Judge D.

"Some repetitions in speech."

Judge E.

"Slight repetition in speech."

Description of speech given by the judges at the end of the experimental period.

Judge A.

"Little fluency during reading. Hesitations. Difficult to tell from stuttering. Certain breathiness in speaking.

Not a stutterer, but a potential one."

Judge B.

"Talks in rather high strained sounding voice. Repeats some. Also prolongs parts of words. Seemed to be willing to talk and answer all questions."

Stuttering."

Judge C.

"On some words while talking he exerted some effort and apparently was stuttering. Slightly ill at

ease; mumbled a bit. Mild stutterer."

Judge D.

"Speech was generally fluent, but occasionally some grimaces were noticeable about the mouth. The repetitions were rapid and not very noticeable. A stutterer."

Judge E.

"Seemed frightened and ill at ease. Repetitions in speech but no strain."

Dictaphone records: At the beginning and end of the experimental period.

	B	E
Number of words	585	390
Percent of syllable repetitions	.17	.51
Percent of word repetition	.34	1.79
Percent of phrase repetition	.68	.26
Percent of interjections	.17	0
Percent of pauses	3.58	2.05
Total percent of speech interruptions.	4.94	4.61

Case 21  
Group IIB

Date of Birth: 9/29/26

Age: 12

Grade: Three

Intelligence quotient: 78

Fluency rating at the beginning of the experimental period:  
2.3

Fluency rating at the end of the experimental period: 3.

Handedness test:

	Beginning of Period	End of Period
Dextrality quotient (Angle Beard)		
Kinesthetic	.67	.60
Visual	.60	.87
Eyedness (positions)		
Up	L	L
Right	L	L
Left	L	L
Down	L	L
Convergence (trials)		
1	L	B
2	L	B
3	L	B
4	L	B
Dynamometer (average)		
Right hand	20	20.5
Left hand	16.3	16.3
Dextrality quotient	.55	.56
Spool packing (average in 10 sec.)		
Right hand	6	4.3
Left hand	5.3	5.3
Dextrality quotient	.83	.45

Description of speech given by judges at the beginning of the experimental period:

Judge A,

"Occasional repetitions of words."

Judge B,

"Lots of repetitions and stops."

Judge C,

"Word and phrase repetition in speaking."

Judge D,

"A great deal of repetition. Not much tension, but some."

Judge E,

"Repetitions and interjections in speech."

Description of speech given by the judges at the end of the experimental period.

Judge A.

"Repetitions, interjections, pauses, but without much tension." Stutterer."

Judge B.

"Talked freely with frequent interjections while thinking of what to say. Looks at floor all of the time while talking. Constantly moves hands while talking. Not a stutterer."

Judge C.

"At ease. Responsive. Voice adequate. Articulation fair to good, but some inaccuracy. Non-stutterer."

Judge D.



"Some repetition in spontaneous speech, but no straining. Not a stutterer."

Judge E.

"Willing to talk. Some repetitions and interjections in speech."

Dictaphone records: At the beginning and at the end of the experimental period.

	B	E
Number of words	353	354
Percent of syllable repetitions	.57	.56
Percent of word repetitions	3.40	1.41
Percent of phrase repetitions	1.13	1.69
Percent of interjections	1.42	.85
Percent of pauses	9.01	5.37
Total percent of speech interruptions	15.53	9.88

Case 22  
Group 11B

Date of Birth: 1922

Age: 16

Grade: Eight

Intelligence quotient: 76

Fluency rating at the beginning of the experimental period:  
3.3

Fluency rating at the end of the experimental period: 3

Handedness test:

	Beginning of Period	End of Period
<b>Dextrality quotient</b> (Angle Board)		
Kinesthetic	.00	.00
Visual	.30	.00
<b>Eyedness (positions)</b>		
Up	R	R
Right	R	R
Left	R	R
Down	R	R
<b>Convergence (trials)</b>		
1	L	B
2	L	B
3	L	R
4	L	B
<b>Dynamometer (average)</b>		
Right hand	26.3	35.3
Left hand	25.8	30
Dextrality quotient	.50	.54
<b>Spool packing (average in 10 sec.)</b>		
Right hand	5	6.5
Left hand	5.8	6.3
Dextrality quotient	.54	.55

Description of speech given by the judges at the beginning of the experimental period:

Judge A.

"Articulation disorder."

Judge B.

"Poor articulation."

Judge C.

"Articulation very poor."

Judge D.

"Articulation not good. A few pauses. Sometimes a prolongation on a first syllable."

Judge E.

"Articulation poor. Repetition of first sounds of words."

Description of speech given by the judges at the end of the experimental period:

Judge A.

"Unwillingness to talk, but not a stutterer."

Judge B.

"Articulatory ease. Very nasal speech. Mild stuttering."

Judge C.

"Quite at ease. Marked articulation and indistinctness and inaccuracy."

"Not a stutterer."

Judge D.

"Some blocking; seemed to be some forcing.  
Spontaneous speech fluent."

"Not a stutterer."

Judge E.

"Articulation disorder."

Dictaphone records: Taken at the beginning and at the end  
of the experimental period.

	B	E
Number of words	583	437
Percent of syllable repetitions	1.03	1.37
Percent of word repetitions	2.75	2.52
Percent of phrase repetitions	0.37	.46
Percent of interjections	0.37	1.42
Percent of pauses	2.40	.46
Total percent of speech interruptions	6.92	6.23

SUMMARY OF CASES IN GROUP II B:

These were the six normal speakers to whom no negatively evaluative label was attached.

## Case Number 17

Considering all of the data obtained at the beginning, during, and at the end of the experimental period, this subject showed a slight decrease in speech fluency as rated and a decrease in the percent of speech interruptions.

## Case Number 18

This subject showed a slight decrease in speech fluency as rated, but a decrease in the percent of speech interruptions.

## Case Number 19

This subject showed an increase in speech fluency and a decrease in the percent of speech interruptions.

## Case Number 20

This subject showed a slight decrease in speech fluency as rated, but a decrease in the percent of speech interruptions.

## Case Number 21

This subject showed an increase in speech fluency and a decrease in the percent of speech interruptions.

## Case Number 22

This subject showed a slight decrease in speech fluency as rated, but a decrease in the percent of speech interruptions.

## TABLES

The fluency rating, dextrality quotient (handedness), and per cent of speech interruption, as measured by use of dictaphone records for each case are indicated by the tables that follow.

TABLE I

FLUENCY RATINGS TAKEN AT THE BEGINNING AND THE END OF THE  
EXPERIMENTAL PERIOD

Subjects	Beginning of Period	End of Period	Increase	Decrease
<u>Group I A</u>				
Case 1	2.3	3.2	0.9	
Case 2	1.4	2.0	0.6	
Case 3	4.2	3.2		1.0
Case 4	3.2	2.2		1.0
Case 5	4.0	4.0	0.0	0.0
<u>Group I B</u>				
Case 6	2.8	3.4	0.6	
Case 7	2.6	3.2	0.6	
Case 8	2.0	1.8		0.2
Case 9	2.1	2.2	0.1	
Case 10	3.6	3.4		0.2
<u>Group II A</u>				
Case 11	2.6	2.0		0.6
Case 12	2.8	2.8	0.0	0.0
Case 13	3.0	3.6	0.6	
Case 14	2.5	2.5	0.0	0.0
Case 15	3.0	3.8	0.8	
Case 16	3.1	2.8		0.3
<u>Group II B</u>				
Case 17	3.0	Illness		
Case 18	2.8	2.6		0.2
Case 19	2.5	2.8	0.3	
Case 20	3.4	3.2		0.2
Case 21	2.3	3.0	0.7	
Case 22	3.3	3.0		0.3

TABLE II

HANDEDNESS TESTS ADMINISTERED AT THE BEGINNING AND THE  
END OF THE EXPERIMENTAL PERIOD

Subjects Group I A		Angle Board D.Q.		Eyedness	Convergence	Dynamometer D.Q.	Spool Packing D.Q.
		Kinaesthetic	Visual				
Case 1	B	.29	.45	4 L	4 L	.49	.50
	E	No learning	.50	4 R	4 B	.50	.52
Case 2	B	.49	.14	4 R	4 R	.51	.45
	E	No learning	.09	3R-1L	1R-3B	.48	.50
Case 3	B	.56	.52	3R-1L	1R-3L	.50	.53
	E	.51	.50	4 L	4 B	.51	.52
Case 4	B	.45	.62	4 L	1R-3L	.53	.51
	E	.56	.78	3R-1L	4 B	.54	.50
Case 5	B	.50	.44	4 R	3L-1R	.51	.53
	E	.48	.50	2R-2L	1R-2L-1B	.54	.50
<u>Group I B</u>							
Case 6	B	No learning	No learning	4 L	4 L	.51	.51
	E	No learning	No learning	4 L	4 B	.50	.48
Case 7	B	.59	.52	4L	4 L	.50	.50
	E	.40	.49	1R-3L	1R-3L	.47	.48
Case 8	B	.50	.50	3R-1L	4 L	.54	.53
	E	.51	.51	4 L	4 L	.51	.50
Case 9	B	.60	.75	4 R	3R-1L	.50	.54
	E	.64	.56	4 R	3R-1L	.52	.54
Case 10	B	.57	.56	4 R	3R-1L	.51	.52
	E	.52	.51	2R-2L	4 B	.54	.47



TABLE II (CONTINUED)

<u>Group II A</u>	Angle Board D.Q.		Visual	Eyedness	Convergence	Dynamometer D.Q.	Spool Packing D.Q.
	Kinaesthetic						
Case 11	B	No learning	No learning	4 R	4 L	.49	.50
	E	No learning	No learning	4 R	4 B	.58	.48
Case 12	B	1.00	.72	4 R	3R-1L	.52	.50
	E	No learning	1.00	3R-1L	4 B	.50	.49
Case 13	B	.72	.63	4 L	4 L	.53	.52
	E	.57	.56	4 L	4 B	.55	.51
Case 14	B	.50	.50	4 L	4 R	.51	.50
	E	No learning	.75	2R-2L	4 B	.50	.64
Case 15	B	1.00	1.00	4 L	1R-3L	.58	.50
	E	1.00	1.00	4 L	4 B	.50	.51
Case 16	B	.61	.63	2R-2L	4 L	.57	.51
	E	.62	.58	2R-2L	4 B	.53	.52

TABLE II (CONTINUED)

Group II	B	Angle Board	Visual	Eyedness	Convergence	Dynamometer	Spool Packing
		D.C.					
		Kinaesthetic				D.C.	D.C.
Case 17	B	.58	.65	1R-3L	4 L	.46	.54
	E	No learning	.78	1R-3L	4 B	.49	.54
Case 18	B	.24	.00	3R-1L	2R-2L	.51	.52
	E	.25	.31	4 R	2R-2B	.47	.54
Case 19	B	No learning	.67	4 L	4 L	.49	.54
	E	No learning	.51	1R-3L	2R-2B	.53	.52
Case 20	B	1.00	.92	4 R	4 L	.55	.50
	E	.52	.59	4 R	2R-1L-1B	.51	.51
Case 21	B	.67	.60	4 L	4 L	.55	.53
	E	.60	.87	4 L	4 B	.56	.45
Case 22	B	.00	.30	4 R	4 L	.50	.54
	E	.00	.00	4 R	1R-3B	.54	.55

TABLE III

SPEECH INTERRUPTIONS PER HUNDRED WORDS ON DICTOPHONE RECORDS MADE AT THE BEGINNING AND  
END OF THE EXPERIMENTAL PERIOD

Subjects	No. of Words	Repetitions Syllables	Words	Phrases	Inter- jections	Pauses	Total	Inc.	Dec.
<u>Group I A</u>									
Case 1	B	485	3.30	9.07	2.27	1.44	2.29	18.37	
	E	470	0.64	1.91	1.70	4.68	5.32	14.25	4.12
Case 2	B	60	0.00	0.00	1.66	0.00	8.30	9.99	
	E	285	0.35	2.10	0.70	0.35	5.26	8.76	1.23
Case 3	B	796	2.01	2.38	0.50	1.38	2.38	8.65	
	E	598	2.00	1.83	0.50	3.34	2.17	9.84	1.19
Case 4	B	274	0.00	6.20	3.61	10.58	10.58	30.97	
	E	526	0.00	2.47	.57	6.44	.57	10.05	20.92
Case 5	B	657	0.61	1.07	.78	1.32	6.09	10.07	
	E	567	1.23	2.12	.35	1.23	4.59	9.52	.55

TABLE III (CONTINUED)

Subjects Group IB	No. of Words	Syllables	Repetitions Words	Phrases	Interjections	Pauses	Total	Inc.	Dec.
Case 6	B 59	0.00	0.00	0.00	0.00	1.19	1.19		
	E 286	0.00	4.82	2.75	6.98	0.69	15.24	14.05	
Case 7	B 332	0.93	0.93	0.31	1.81	7.45	11.43		3.02
	E 331	0.30	0.90	0.90	0.90	5.41	6.41		
Case 8	B 495	0.44	2.82	0.22	3.43	10.80	17.81		4.53
	E 504	0.99	1.19	0.99	1.38	8.73	13.28		
Case 9	B 411	15.57	3.65	1.21	6.32	6.32	33.07		5.44
	E 333	8.71	3.30	0.00	7.81	7.81	27.63		
Case 10	B 525	0.95	1.33	0.38	0.38	0.77	3.81		1.39
	E 661	0.15	0.61	0.00	0.45	1.21	2.42		

TABLE III ( CONTINUED )

Subjects		No. of Words	Repetitions		Inter- jections	Pauses	Total	Inc.	Dec.
Group II	A		Syllables	Words					
Case 11	B	172	5.23	1.75	0.58	3.49	11.83		
	E	287	0.72	2.87	0.70	1.74	14.39	2.76	
Case 12	B	322	1.24	2.17	2.17	0.31	8.06		
	E	337	0.29	0.89	1.78	0.89	10.97	2.91	
Case 13	B	507	0.39	1.38	0.00	0.39	4.93	7.09	
	E	536	0.56	0.56	0.37	1.49	4.83		2.26
Case 14	B	353	1.69	1.13	0.59	0.59	3.96	7.96	
	E	180	0.00	2.78	1.11	2.78	5.65	12.22	4.26
Case 15	B	651	1.23	1.69	1.08	0.77	1.38	6.15	
	E	627	1.75	1.43	0.63	2.55	2.55	8.91	2.76
Case 16	B	705	0.43	0.99	1.13	1.81	2.26	6.62	
	E	657	1.22	1.37	1.97	3.04	4.87	12.47	5.85

TABLE III (CONTINUED)

Subjects		No. of Words	Repetitions			Inter- jections	Pauses	Total	Inc.	Dec.
Group	II		Syllables	Words	Phrases					
Case 17	B	181	0.00	2.21	2.21	0.55	5.53	10.50		
	E	160	0.00	0.63	0.00	0.00	6.25	6.88	3.72	
Case 18	B	341	0.58	0.88	0.88	0.00	5.28	7.62		
	E	302	0.00	1.66	0.63	0.32	0.93	3.84	3.78	
Case 19	B	540	0.56	0.91	0.74	1.11	2.22	5.54		
	E	278	0.00	0.36	0.00	0.36	1.44	2.16	3.38	
Case 20	B	585	0.17	0.34	0.68	0.17	3.58	4.94		
	E	390	0.51	1.79	0.26	0.00	2.05	4.61	0.33	
Case 21	B	353	0.57	3.40	1.13	1.42	9.01	15.53		
	E	354	0.56	1.41	1.69	0.85	5.37	9.88	5.65	
Case 22	B	583	1.03	2.75	0.37	0.37	2.40	6.92		
	E	437	1.37	2.52	0.46	1.42	0.46	6.23	0.69	

SUMMARY OF GROUP COMPARISONS:

## Group I A (Label removed)

Out of group I A two subjects increased in speech fluency, two subjects decreased in speech fluency and, one subject's fluency rating did not change.

Four out of the five subjects in this group decreased the percent of their speech interruptions, and one out of the group increased the percent of his speech interruptions.

## Group I B (Label endorsed)

Out of group I B three subjects increased in speech fluency as rated.

Four out of the five subjects in this group decreased the percent of their speech interruptions and one out of the group increased the percent of his speech interruptions.

## Group II A (Label attached)

Out of group II A two of the subjects increased in speech fluency, two decreased in speech fluency and two did not change in fluency, as rated.

Five of the six subjects in this group increased the percent of their speech interruptions, and one of the six decreased the percent of his speech interruptions.

All of the children in this group showed overt behavioral changes in the course of the experiment that were in the direction of the types of inhibitive, sensitive,

embarrassed reactions shown by many adult stutterers in relation to their speech. There was a tendency for them to become less talkative.

Group II B (No negatively evaluative label)

Out of group II B two of the subjects increased in speech fluency and three of the subjects decreased in speech fluency as rated. One child was ill during the final check-up.

All six of the subjects decreased the percent of their speech interruptions.



## DISCUSSION OF RESULTS

It is very possible that if the writer had had more cooperation the results of this study would have been more positive. Both the teachers and the matrons of the institution were very easily influenced, that is, they accepted the diagnosis given without questioning. They were not skeptical of any of the methods of therapy that were suggested. It seemed to be their general opinion, however, that children of such "caliber" and in such environmental surroundings could not be helped. They apparently felt that it was a waste of time to give these children special attention. In any event, the suggestions offered were for the most part disregarded. As it was, the children received their stimulation almost entirely from the writer. If these children had constantly been reminded of their speech they would have undoubtedly reacted more positively.

All of the subjects in Group II A (the children to whom the label "stutterer" had been attached) showed similar types of speech behavior during the experimental period. A decrease in verbal output was characteristic of all six subjects; that is, they were reluctant to speak and spoke only when they were urged to. Second, their rate of speaking was decreased. They spoke more slowly

and with greater exactness. They had a tendency to weigh each word before they said it. Third, the length of response was shortened. The two younger subjects responded with only one word whenever possible. Fourth, they all became more self-conscious. They appeared shy and embarrassed in many situations. Fifth, they accepted the fact that there was something definitely wrong with their speech. Sixth, every subject reacted to his speech interruptions in some manner. Some hung their heads, other gasped and covered their mouths with their hands; others laughed with embarrassment. In every case the children's behavior changed noticeably.

In the writer's opinion it would be of definite theoretical and practical significance to repeat this study under conditions more nearly comparable to the home situation, in which parents more or less constantly remind the child of his speech interruptions and quite persistently apply such therapeutical principles as they feel to be warranted by the diagnosis of "stutterer". Such results as were obtained in this study, with a relatively slight amount of stimulation, indicate that in a "home situation" definitely more extensive results might reasonably be expected.

**APPENDIX**

**Dictaphone records taken at the beginning  
and end of the experimental period**