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### A clinical records survey

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## **A clinical records survey**

### **Abstract**

A clinical records survey

### **Degree Type**

Thesis

### **Degree Name**

Master of Science in Vision Science

### **Committee Chair**

### **Subject Categories**

Optometry

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A CLINICAL RECORDS SURVEY

A THESIS PRESENTED  
TO  
THE COLLEGE OF OPTOMETRY  
OF  
PACIFIC UNIVERSITY  
FOREST GROVE, OREGON

IN PARTIAL FULFILLMENT  
OF THE  
REQUIREMENTS FOR THE  
DEGREE  
DOCTOR OF OPTOMETRY

Prepared By

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1960

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## STATEMENT OF PROBLEM

This paper is a survey of clinic records of outpatients receiving their first clinical examinations at Pacific University Optometric Clinic during the calendar year 1958.

## PROCEDURE

The survey was designed to include only those patients who appeared in the clinic for the first time and to exclude all former patients and contact lens patients. A sample of 400 cases was selected out of a sample of 595 patient's records which were originally listed as new patients. The total number of new patients listed was 1787. Approximately every third patient listed was used to obtain the sample of 595 records. Later in this section the rejection of 195 cases is explained.

The clinic files show the number of outpatients for each clinician for each semester. Each clinician's patients are listed on a separate page for each semester that he was in the clinic. Therefore, two classes of clinicians may have had three listings of outpatients, if they attended the summer session. The sampling was taken from all the separate clinician listing of outpatients.

The study of the records was governed by the statements as follows:

- A. New patient -- those patients appearing at Pacific University Optometric Clinic for the first time.
- B. Progress evaluation -- a subsequent examination on the new outpatient providing the examination was conducted during the year 1958.
- C. Pathology -- those conditions of the patient observed and recorded by the clinician. Progress evaluation pathology refers to



those conditions not observed at the original examination.

D. Case history -- those responses of the patient recorded by the clinician.

1. Major visual complaint -- this is the patient's statement of his visual complaint as recorded by the clinician. In some cases there was a multiple complaint and so recorded.

E. Therapy -- all patient therapy is listed as that recorded by the clinician on the final disposition form.

1. First examination

- a. Those outpatients already wearing lenses and requiring no change of lenses as listed under "no change".
- b. Accepted Rx for fulltime and near only refers to single vision lenses.
- c. Number recommended and accepted for visual training applies only to office visual training. Home visual training is listed as a separate form of therapy where recommended as distinct from office visual training.
- d. The Rx is listed in minus cylinder form only.
- e. Anisometropia refers to a difference in sphere power in minus cylinder form.

2. Progress evaluation

- a. No change in original therapy is listed as no change.
- b. Change in therapy from original is listed only as to what was given, not the amount of change.

- c. Items 21 (b) (c) (d) and (e) apply in progress evaluation therapy.

F. Number of records screened.

- 1. Total number of cases - 595
- 2. Cases rejected - 195
  - a. Contact lenses - 17
  - b. Cases incomplete - 5
  - c. Failure to appear for completion of examination - 2
  - d. No records found - 56
  - e. Previous patients - 115
- 3. Number of cases used in the sampling - 400

G. Number of clinicians handling the outpatients during the period covered:

- 1. Spring semester 1957-58
  - a. Fifth year II - 19 including one graduate assistant
  - b. Fifth year I - 24
  - c. Fourth year II - 30
- 2. Summer session 1958
  - a. 32 consisting of b & c above
- 3. Fall semester 1958-59
  - a. Fifth year II - 19 including one graduate assistant
  - b. Fifth year I - 30
  - c. Fourth year II - 21

## RESULTS

TABLE I

Table I shows a breakdown of the patient's sex as to frequency of N and the percentage of N for each sex.

	<u>F</u>	<u>% of N</u>
Male	181	45.25
Female	219	54.75

TABLE II

Table II shows a frequency of N and percentage of N of occupations listed or not listed on the case record form. If the occupation did not appear in the space allocated for the case history, it was recorded as not listed.

<u>Occupation</u>	<u>F</u>	<u>% of N</u>
Listed	187	46.75
Not listed	213	53.25

TABLE III

Table III shows the frequency of N and the percentage of N as pertains to avocation listed or not listed.

<u>Avocation</u>	<u>F</u>	<u>% of N</u>
Listed	58	14.50
Not Listed	342	85.50

TABLE IV

Table IV shows a breakdown of the type of therapy recommended at the original study.

<u>Therapy</u>	<u>F</u>	<u>% of N</u>
Glasses only	255	63.8
Visual Training	30	7.5
VP and Glasses	39	9.25
Referred-therapy		
MD	6	1.5
OD	3	.75
No therapy	25	6.25
No change	37	9.25

TABLE V

Table V shows a breakdown of the therapy given and accepted as to frequency of N and percentage of N.

<u>Therapy accepted</u>	<u>F</u>	<u>% of N</u>	<u>% of Total # of Ex</u>
Single vision			
Full time	82	20.5	27.85
Near only	40	10.0	13.6
Bifocal			
Under age 42	66	16.5	22.2
Over age 42	102	25.5	34.8
Trifocal	4	1.0	1.36
Multiple Rx	2	0.5	
Sun glasses	2	0.5	
Deferred therapy	5	1.25	
Refused therapy	4	1.0	

TABLE VI

Table VI shows component parts and breakdown of the visual training given at the original case study. The table shows that two persons recommended for training refused therapy at that time and nine patients deferred the training. The home training was not counted as part of the

of the number recommended. The figures show only those recommended for office training.

<u>Visual Training</u>	<u>F</u>	<u>% of N</u>	<u>% of # Recommended</u>
# Recommended	69	17.25	
# Accepted	37	9.25	53.6
# Dismissed	30	7.25	43.5
# Strabismic	11	2.75	15.9
# Non-strabismic	58	14.5	84.1
# Home training	35	8.75	
# Deferred	9	2.25	13.30

TABLE VII

Table VII shows the spherical power of the lens, in minus cylinder form, prescribed in the recommended therapy after the first examination. It does not reflect the amount of change from the habitual Rx, if any.

	<u>F</u>	<u>% of N</u>	<u>% of # of Rx</u>
Plano to 2.00			
Plus	185	46.3	63.0
Minus	69	17.25	23.5
2.25 to 4.00			
Plus	14	3.50	4.76
Minus	21	5.25	7.14
4.25 to 9.00			
Plus	2	0.5	0.68
Minus	3	0.75	1.02

TABLE VIII

Table VIII shows the cylindrical component of the lenses prescribed in the recommended therapy after the first examination. It does not reflect the amount of change, only the amount that was prescribed.

<u>Astigmatism</u>	<u>F</u>	<u>% of N</u>	<u>% of # of Rx</u>
0.25 to 0.75	131	32.75	44.50
0.87 to 2.00	36	9.0	12.25
2.25 or more	8	2.0	2.75
TOTAL	175	43.75	59.47

TABLE IX

Table IX shows the anisometric factor in the lenses prescribed from the first examination. These values were computed from the spherical portion, in minus cylinder form.

<u>Anisometropia</u>	<u>F</u>	<u>% of N</u>	<u>% of # of Rx</u>
0.25 to 0.75	97	24.25	33.00
0.87 to 2.00	17	4.25	5.80
2.25 or more	0	0	0
TOTAL	114	28.50	38.80

TABLE X

Table X shows the amount of pathology observed at the time of the first examination. The observed pathology was broken down into three divisions: (a) observed in the right eye (b) observed in the left eye (c) observed in both eyes.

	<u>F</u>	<u>% of N</u>	<u>% of Observed</u>
OD	5	1.25	16.10
OS	3	0.75	9.70
OU	23	5.75	74.20
TOTAL	31	7.75	

TABLE XI

Table XI shows the areas in which pathology was observed at the time of the first examination. The areas listed are those that comprise the major divisions of the ocular media.

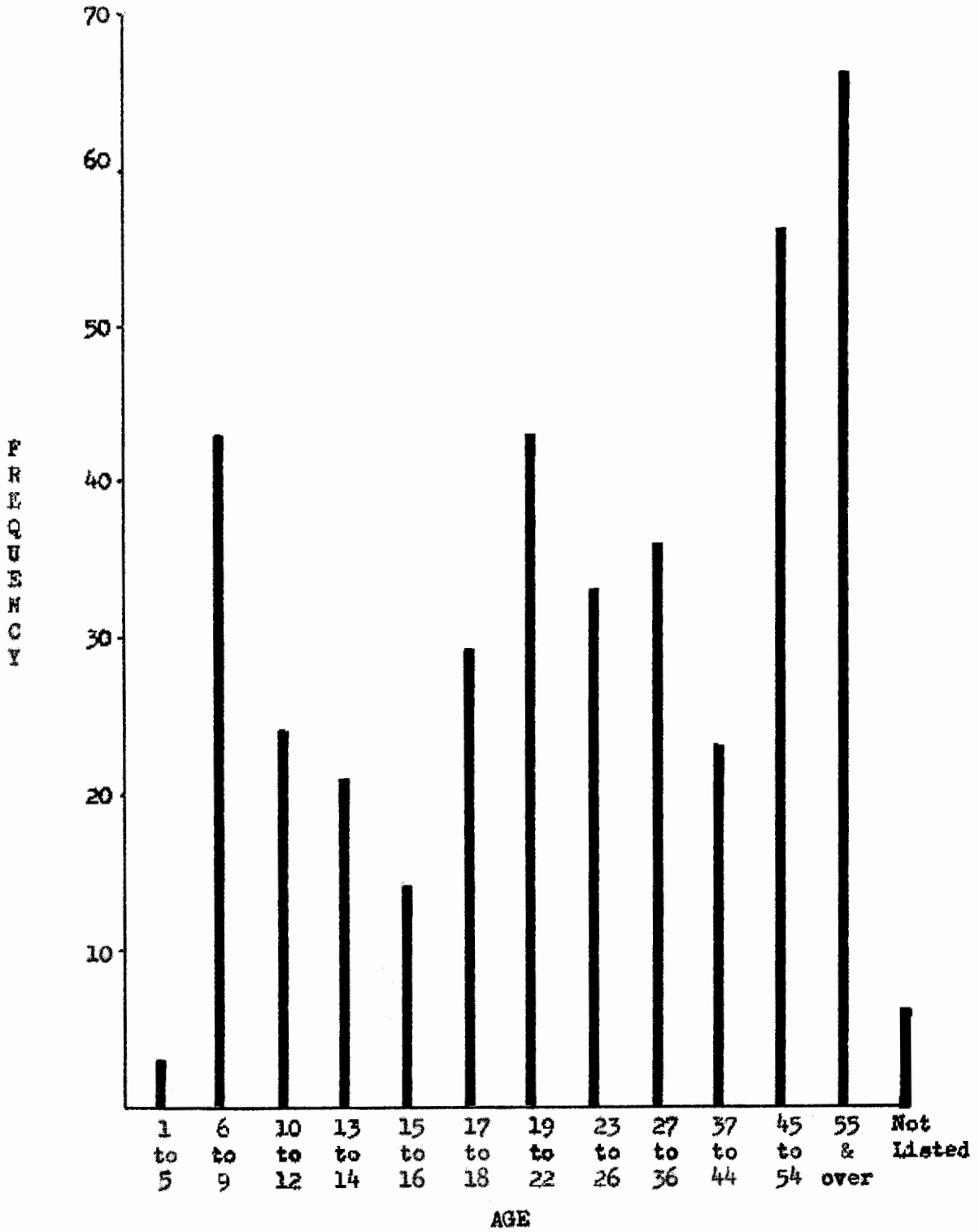
<u>Pathology Area</u>	<u>F</u>	<u>% of N</u>	<u>% of Observed</u>
Lid	2	0.50	6.45
Cornea	1	0.25	3.25
Anterior Chamber	3	0.75	9.70
Lens	16	4.00	51.60
Retina	5	1.25	16.10
Vascular	2	0.50	6.45
Field Defect	2	0.50	6.45
TOTAL	31	7.90	100.00

TABLE XII

Table XII shows the number of pathology cases referred to an outside practitioner as a result of the first examination, and includes the classification as to whom referred.

<u>Pathology Referred</u>	<u>F</u>	<u>% of N</u>
Physician	3	0.75
Ophthalmologist	1	0.25
TOTAL	4	1.00

GRAPH I



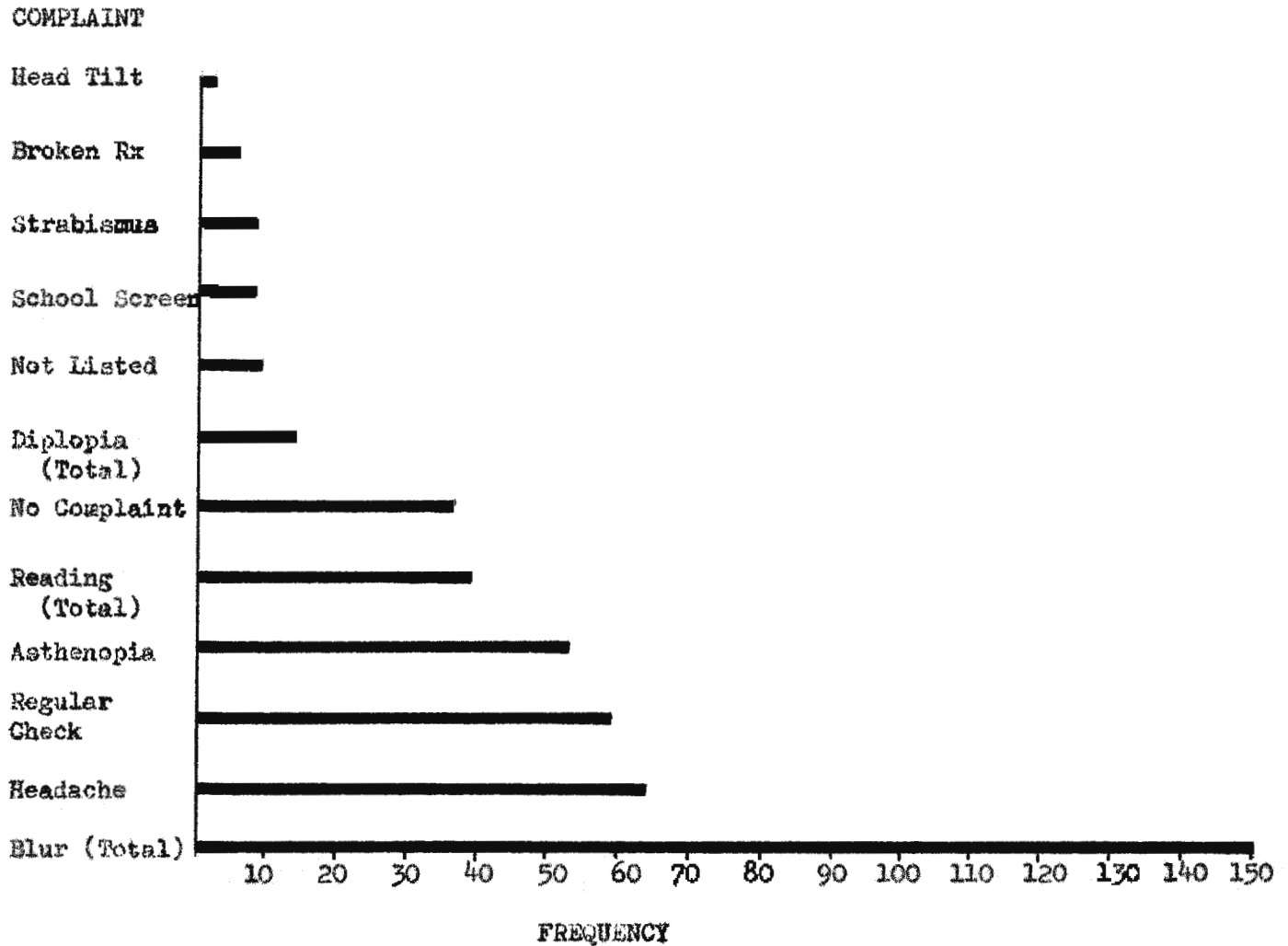
Graph I

Shows frequency, or actual #, per each age group.

Reference: Appendix A page 20  
Item # 2



GRAPH II



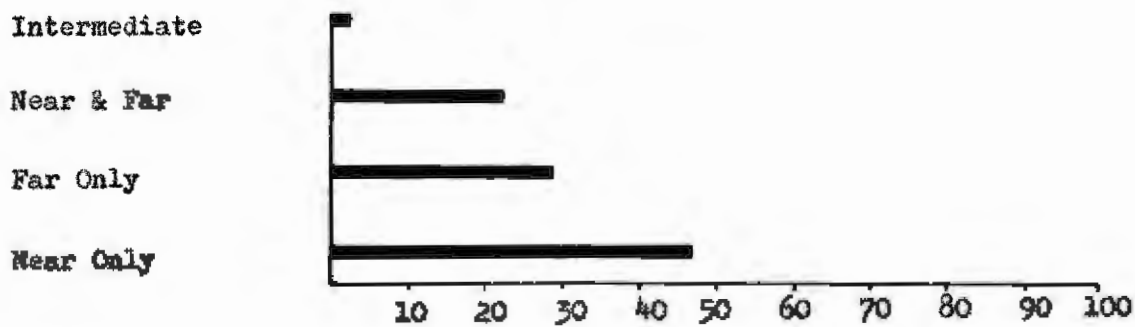
Graph II

Shows the frequency of the various visual complaints recorded on the case record form.

Reference: Appendix A pages 20 & 21  
Item # 8

GRAPH III

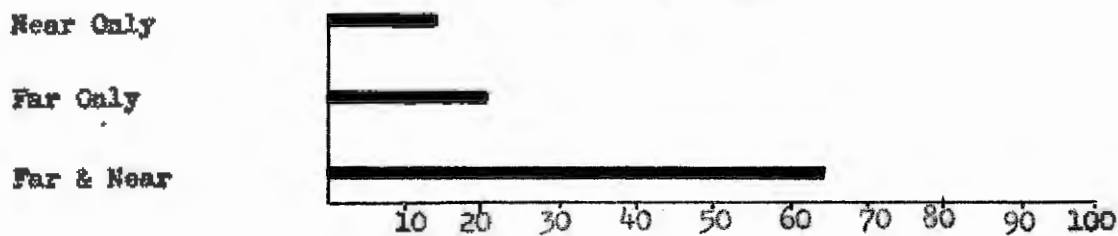
Area of Blur



% of total complaint of blur

Reference: Appendix A page 20  
Sub Item #1 of Item #8

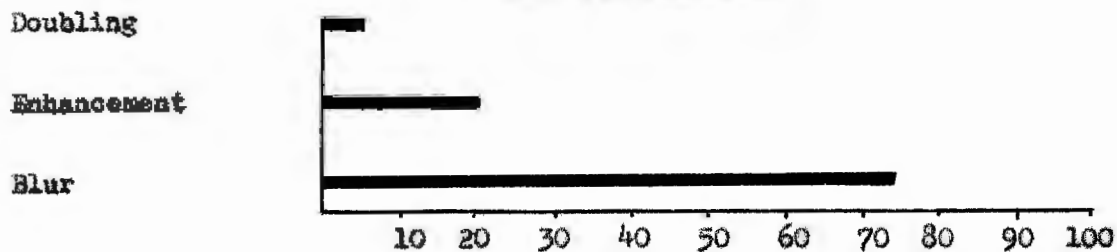
Area of Diplopia



% of total complaint of diplopia

Reference: Appendix A page 21  
Sub Item #2 of Item #8

Reading Complaint



% of total complaint of reading

Reference: Appendix A page 21  
Sub Item #6 of Item #8

PROGRESS EVALUATION  
OF  
ORIGINAL EXAMINATIONS TAKEN APPROXIMATELY THIRTY DAYS LATER

TABLE I

Table I shows the frequency or number, and the percentage of  $N_{pe}$  of the progress evaluation examinations conducted in the calendar year, and the complaints taken on the case history of that examination. The complaints are listed only as to the number complaining, and whether the complaint is a new one, or the same complaint listed in the original examination and not eliminated by the original therapy.

	<u>F</u>	<u>% of N</u>	<u>% of # of PE's</u>
# of PE's	130	32.5	
# of complaints	20	5.0	15.38
Original complaint not cared for	11	2.75	8.45
New complaint	9	2.25	6.93

TABLE II

Table II shows the type of therapy given from the progress evaluation examination. The glasses given were either original therapy with the progress evaluation, or a change in the original therapy as modified by the progress evaluation. The visual training can be considered to be original with the progress evaluation examination.

<u>Therapy-type Given</u>	<u>F</u>	<u>% of <math>N_{pe}</math></u>
Glasses only	27	20.8
VT only	6	4.6
VT and glasses	4	3.1
No change	93	71.5
# of Rx	31	23.9

TABLE III

Table III shows a breakdown in the glasses given at the progress evaluation. It states only what was given, not the type changed to or from. Those types of lenses not listed here and found in the original study, such as multiple pairs, were found to be zero and were not entered.

<u>Therapy Accepted</u>	<u>F</u>	<u>% of N<sub>pe</sub></u>	<u>% of # of Rx</u>
Single vision			
Full time	8	6.2	25.8
Near only	3	2.3	9.7
Bifocal			
Under age 42	9	7.0	29.0
Over age 42	7	5.4	22.5
Trifocal	1	0.7	3.2
Deferred therapy	1	0.7	3.2
Refused therapy	2	1.5	6.4

TABLE IV

Table IV shows component parts and breakdown of the visual training given at the progress evaluation. The table shows that two persons recommended for training refused therapy at that time. The home training was not counted as part of the number recommended, that figure shows only those recommended for office training.

<u>Visual Training</u>	<u>F</u>	<u>% of N<sub>pe</sub></u>	<u>% of VT Recommended</u>
# recommended	10	7.0	
# accepted	7	5.4	70.0
# new patients	0	0.0	00.0
# dismissed	5	3.8	50.0
# strabismic	1	0.7	10.0
# non-strabismic	9	6.2	90.0
# home VT	4	3.1	40.0
# deferred	1	0.7	10.0

TABLE V

Table V shows the spherical power of the lens, in minus cylinder form, prescribed in the recommended therapy of the progress evaluation. It does not reflect the amount of change.

	<u>F</u>	<u>% of N<sub>pe</sub></u>	<u>% of # of Rx</u>
Plano to 2.00			
Plus	14	10.7	45.1
Minus	12	9.2	38.6
2.25 to 4.00			
Plus	2	1.5	5.4
Minus	3	2.3	9.7

TABLE VI

Table VI shows the cylinder component of the lenses prescribed at the progress evaluation. Once again, it does not reflect the amount of change, but only what was given.

<u>Astigmatism</u>	<u>F</u>	<u>% of N<sub>pe</sub></u>	<u>% of # of Rx</u>
0.25 to 0.75	8	6.20	25.80
0.87 to 2.00	5	3.80	16.20
2.25 or more	0	0.00	0.00
TOTAL	10	7.70	32.10

TABLE VII

Table VII shows the anisometric factor in the lenses prescribed at the progress evaluation. These values were computed from the spherical portion, in minus cylinder form, of the prescribed lenses.

<u>Anisometropia</u>	<u>F</u>	<u>% of N<sub>pe</sub></u>	<u>% of <math>\bar{x}</math> of Ex</u>
0.25 to 0.75	7	5.40	22.50
0.87 to 2.00	2	1.30	6.40
2.25 or more	1	0.70	3.20
TOTAL	10	7.70	32.10

TABLE VIII

Table VIII shows the amount of pathology observed in the progress evaluation that was not observed in the original examination. If pathology was observed in the original examination, and also in the progress evaluation, it was not counted as pathology observed in the progress evaluation. Therefore, all pathology observed was either recent in origin or overlooked in the original examination.

<u>Pathology Observed</u>	<u>F</u>	<u>% of N<sub>pe</sub></u>
OD	0	0
OS	0	0
OU	1	0.77

TABLE IX

Table IX shows that areas in which pathology was observed in the progress evaluation. Since there was only one area that contained any pathology, it was the only one listed. The other areas listed in the original study can be considered to be negative.

<u>Pathology Area</u>	<u>F</u>	<u>% of N<sub>pe</sub></u>
Lens	1	0.77

TABLE X

Table X shows the number of pathology cases referred to an outside

practitioner, as a result of the progress evaluation.

<u>Pathology Referred</u>	<u>F</u>	<u>% of N<sub>pe</sub></u>
TOTAL	0	0

## DISCUSSION

There were a few cases where a patient's name was listed by the clinic office as having been in for an examination, but the case records could not be found. This can be explained by (1) the case in process of training and record in possession of the clinician responsible, (2) case misfiled, (3) cases taken out for review by responsible clinicians, and (4) lost.

It is felt that the tabulation of the cylinder and anisometropia could have been handled differently, and if this experiment were to be done again, these items would be recorded from the 90th meridian or the spherical equivalent in all cases.

This sampling reveals quite vividly that an adequate case history is not being taken and if being taken, is not being recorded in the designated place on the case record. This is borne out by the occupation and avocation tabulations which are important items when considering therapy for a given case.

Another area which has apparently been sadly ignored is that of multiple Rx's and sun glasses. While we realize that it is difficult for a young clinician to mention these areas to the patient, it is felt that this is part of the service we can and should give our patients. We feel that the reluctance on the part of the clinician to mention these additional services to the patient is due to fear of being branded a "spec paddler".



## CONCLUSION

A survey of clinic records of outpatients receiving their first clinical examinations at Pacific University Optometric Clinic during the calendar year 1958.

## History

## APPENDIX A

			% of N
	# new patients	400	
2.	# of PE's	130	32.50
	Age		
	1 - 5	3	0.75
	6 - 9	43	10.75
	10 - 12	24	6.00
	12 - 14	21	5.25
	14 - 16	14	3.50
	16 - 18	29	7.25
	19 - 22	43	10.25
	23 - 26	33	8.25
	27 - 36	36	9.00
	37 - 44	23	5.75
	45 - 54	56	14.00
	55 -	66	16.50
	Not listed	6	1.50
3.	Sex		
	Male	181	45.25
	Female	219	54.75
	Not listed		
4.	Former patients		
5.	# complaining at P.E.		% of # of PE
	old com. not cared for	20	15.38
	new comp.	11	8.45
		9	6.93
6.	Occupation listed	187	46.75
	Not listed	213	53.25
7.	Avocation listed	58	14.50
	Not listed	342	85.50
8.	Major complaint		% of Blur
	1. Blur	150	37.50
	a. near only	71	47.4
	b. far only	42	28.0
	c. intermediate	3	2.0
	d. all (far and near)	34	22.6

		<u>% of N</u>	<u>% of Diplopia</u>
2. Diplopia	14	3.5	
a. Near only	2		14.3
b. far only	3		21.2
c. both	9		64.5
3. Asthenopia	53	13.25	
4. Headache	64	16.0	
5. Regular check up	59	14.75	
6. Reading	39	9.75	<u>% of Reading</u>
a. asthenopia Blur	29		74.4
Doubling	2		5.1
b. retarded or req. enhancement	8		20.5
7. No complaint	37	9.25	
8. Not listed	9	2.25	
9. Rx broken	6	1.5	
10. School Screening	8	2.0	
11. Head Tilt	2	0.5	
12. Strabismus	8	2.0	

Therapy

1. Type given

	f	% of N
a. glasses only	255	63.0
b. v. t. only	30	7.5
c. visual training and glasses	39	9.25
d. contact lens		
e. referred (M.D.)	6	1.5
(O.D.)	3	0.75
f. subnormal	0	0
g. no glasses therapy	25	6.25
h. not listed	0	0
<b>1. No change</b>	<b>37</b>	<b>9.25</b>

2. Accepted Rx

		f	% of # of Rx
a. full time	Single Vision	62	20.5
b. near only	Single Vision	10	10.0
c. bifocal	(under 42)	66	16.5
	(over 42)	102	25.5
d. trifocal		4	1.0
e. multiple		2	0.5
f. sun glasses		2	0.5
g. Not listed		0	0
h. Refused Therapy		1	1.0
4. Referred Therapy		5	1.25

3.

	f	% of # Rec.
a. # recommended	69	17.25
b. # accepted	37	9.25
c. <del>dismissed</del>		
d. # dismissed	30	7.5
e. # strabismic	11	2.75
f. # non-strabismic	58	14.5
g. # home visual training	35	8.75
h. # Deferred	9	2.25

4. Distance Rx

( a sphere minus cyl)

Plans	f	% of # of Rx
0.25 - 2.00	185	46.3
+	185	46.3
-	69	17.25
2.25 - 4.00		
+	14	3.50
-	21	5.25
4.25 - 9.00		
+	2	0.5
-	3	0.75
9.00		
+	0	0
-	0	0

		$f$	% of N	% of # of Rx
5. Astigmatism Rx	Minus cyl.	175	43.75	52.17
- 0.25 - 0.75		131	32.75	44.5
- 0.87 - 2.00		36	9.0	12.25
- 2.25		8	2.0	2.72
6. Anisometropia	Minus cyl.	114	28.5	38.8
0 - 75		97	24.25	33.0
0.87 - 2.00		17	4.25	5.8
2.25		0	0	0

Pathology

			% of Observed
1. Observed		31	7.75
O.D.		5	1.25
O.S.		3	0.75
O.U.		23	5.75
2. Area			
Lid		2	0.5
Conjunctiva		0	0
Cornea		1	0.25
Anterior Chamber		3	0.75
Iris		0	0
Lens		16	4.0
Vitreous		0	0
Retina		5	1.25
Retinitis		0	0
Choroiditis		0	0
Optic Atrophy		0	0
Vascular Dist.		2	0.5
Field Defect		2	0.5
Motility			
Paralytic		0	0
Non paralytic (Non-concomitant)		0	0
Glaucoma		0	0
3. Referred		1	1.0
Physician		3	0.75
Ophthalmologist		1	0.25
4. Not listed		0	0
5. <del>XXXXXXXXXXXX</del>			

APPENDIX B

Therapy - PE

1. Type given N= 130

	f	% of N	% of # of Rx
a. glasses only	27	20.8	
b. v. t. only	6	4.6	
c. visual training and glasses	4	3.1	
d. contact lens	0	0	
e. referred (M.D.)	0	0	
(O.D.)	0	0	
f. subnormal	0	0	
g. no <del>XXXXXX</del> change	93	71.5	
h. not listed	0	0	

2. Accepted Rx

	f	%	% of # of Rx
a. full time	8	6.2	25.8
b. near only	3	2.3	9.7
c. bifocal (under 42)	9	7.0	29.0
(over 42)	7	5.4	22.5
d. trifocal	1	0.7	3.2
e. multiple	0		
f. sun glasses	0		
g. Not listed	0		
h. Refused	1	0.7	3.2
i. Deferred	1	0.7	3.2

3. Visual training

	f	%	% V.T. REC
a. # recommended	10	7.0	
b. # accepted	7	5.4	70.0
c. # new patients			
d. # dismissed	5	3.8	50.0
e. # strabismic	1	0.7	10.0
f. # non-strabismic	9	6.2	90.0
g. # home visual training	4	3.1	40.0
h. #deferred	1	0.7	10.0

4. Distance Rx

( a sphere minus cyl)

	f	%	% of # of Rx
0.25 - 2.00			
+	14	10.7	45.1
-	12	9.2	38.6
2.25 - 4.00			
+	2	1.5	6.4
-	3	2.3	9.7
4.25 - 9.00			
+	0		
-	0		
9.00			
+	0		
-	0		

		$\frac{f}{N}$	$\frac{\% \text{ of } N}{10.0}$	$\frac{\% \text{ of } \# \text{ of Rx}}{12.0}$
5. Astigmatism Rx	Minus cyl.	15	10.0	12.0
	- 0.25 - 0.75	8	6.20	25.8
	- 0.87 - 2.00	5	3.8	16.2
	- 2.25	0	0	0
6. Anisometropia	Minus cyl.	10	7.7	32.1
	0 - .75	7	5.4	22.5
	0.87 - 2.00	2	1.5	6.4
	2.25	1	0.7	3.2

### Pathology

				$\frac{\% \text{ of Observed}}$
1. Observed		1	0.77	
	O.D.	0	0	0
	O.S.	0	0	0
	O.U.	1	0.77	100.0
2. Area				
	Lid	0	0	0
	Conjunctiva	0	0	0
	Cornea	0	0	0
	Anterior Chamber	0	0	0
	Iris	0	0	0
	Lens	1	0.77	100.0
	Vitreous	0	0	0
	Retina	0	0	0
	Retinitis	0	0	0
	Choroiditis	0	0	0
	Optic Atrophy	0	0	0
	Vascular Dist.	0	0	0
	Field Defect	0	0	0
	Motility			
	Paralytic	0	0	0
	Non paralytic (Non-concomitant)	0	0	0
	Glaucoma	0	0	0
3. Referred		0	0	0
	Physician	0	0	0
	Ophthalmologist	0	0	0
4. Not listed		0	0	0
5. Nonpathological				