

NATIONAL EXAMINING BOARD OF OCULARISTS

Part B, Section 3 Fabrication Examination

EXAMINEE INSTRUCTIONS

The ability to duplicate, within specific tolerance, a conventional plastic prosthesis and a scleral shell prosthesis will be assessed in this Fabrication Examination.

The Fabrication Examination Kit, which includes a conventional prosthesis and a clear acrylic scleral shell prosthesis, will be mailed (unless otherwise designated) by Certified Mail, return receipt requested.

The examinee will be given up to ten (10) "work days" (Monday thru Friday are "work days") to complete the Fabrication Examination, commencing on date following receipt of kit. A proctor will be appointed by the National Examining Board of Ocularists to monitor a portion of the fabrication process and to assure that all work is done by the examinee. The proctor will have notice that the Fabrication Kit has been mailed to the examinee and will contact the examinee to make arrangements witness the necessary fabrication processes. The proctor will take possession of the finished duplications and the fabrication kit upon completion or on the designated date.

It is important for the examinee to note that the proctor is there to monitor and to witness the work, not to examine or counsel. The examinee and his/her work will remain anonymous to the three members of the NEBO Test Committee who will be evaluating and grading the Fabrication submissions, with analysis of grading and scoring done by Assessment Systems, Inc., a professional testing service.

The sample conventional prosthesis and clear acrylic scleral shell will be marked with a series of dots which will designate specific measuring points and help to indicate the position of the prosthesis. The red dot indicates the top of the samples. A white dot marks the pupil center.

Both the finished conventional prosthesis and the clear acrylic scleral shell are identified by numbers.

The examinee is required to fabricate a conventional prosthesis and a scleral shell prosthesis, as follows:

- 1) Duplicate the sample conventional prosthesis, as is, in all details; prior to the beginning of the proctored scleral shell section;
- 2) Duplicate the size and shape of the clear acrylic shell and the iris position, as marked by the white dot, matching the cosmetic details found in sample conventional prosthesis;
- 3) Mark (by dotting) the finished conventional and scleral duplication in the same manner and at the same five (5) locations as kit samples. The location of the five dots at the corneal apex, the superior, the inferior, the nasal and the temporal locations, will be recorded (shown) on the stone mold of the anterior surface of the sample. These five dot locations should be preserved during the final clear capping process and marked appropriately on the finished conventional and scleral shell duplications. (A small round burr and china marking pencil are used to mark kit samples.)

NOTE: The red dot identifies the superior aspect (or top) of the clear acrylic shell.
THE FINISHED DUPLICATION OF THE CONVENTIONAL AND SCLERAL SHELL PROSTHESIS WILL BE ASSESSED FOR DIMENSIONAL CORRECTNESS GENERALLY AND AT SPECIFIC AREAS LISTED BELOW AND SHOWN ON THE ATTACHED PAGE OF DIAGRAMS.



Specific points at which the conventional prosthesis and scleral shell prosthesis will be measured.

- | | | | |
|-----------|-----------|-----------|------------|
| 1) A to B | 4) G to H | 7) M to O | 10) A to R |
| 2) C to D | 5) I to J | 8) Q to R | 11) A to F |
| 3) E to F | 6) K to L | 9) A to E | 12) A to Q |

The accuracy of the finished duplications will also be evaluated for the following:

- 1) Accuracy of anterior and posterior surfaces
- 2) Pupil size
- 3) Iris size
- 4) Limbal blend
- 5) Iris color
- 6) Sclera vascularization and tinting
- 7) Finishing and polishing
- 8) Fabrication polymerization process
- 9) Clarity of clear acrylic

TOLERANCES, THE EVALUATION PROCESS AND GRADING

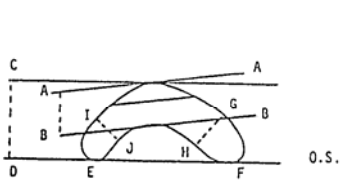
- 1) Specified Measuring Points- Maximum credit will be awarded for maintaining tolerances of less than $\pm 0.6\text{mm}$; no credit if tolerance exceeds $\pm 1.0\text{mm}$.
- 2) Anterior or Posterior surface- Maximum credit will be awarded for maintaining tolerances on these surfaces of less than $\pm 0.6\text{mm}$; no credit if tolerance exceeds $\pm 0.6\text{mm}$.
- 3) Iris and Pupil Diameter- Maximum credit awarded for maintaining iris/pupil diameter within $\pm 0.5\text{mm}$; no credit if tolerance exceeds $\pm 1.0\text{mm}$.
- 4) Limbal Blend will be evaluated with maximum points awarded for an exact duplication.
- 5) Iris Color- The four main aspects of the iris color: Primary collarette, Stroma field, "Limbal" border color, and special markings including freckles, dotting and the arcus senilis, will be evaluated individually as very good, good, or deficient; maximum credit for very good to no credit for deficient.
- 6) Vascularization and Tinting- These aspects of the prosthesis will be evaluated similarly to iris color with the maximum credit awarded for very good reproduction of vascular patterns and sclera tone to no credit for duplication of sclera rated as deficient.
- 7) The proper Polymerization of the duplication as well as proper finishing and polishing are most important considerations. Duplication must be free of porosity, delamination smears and dirt particles, etc. No surface scratches should be visible under inspection by a 5 power magnification. Edges should be blended and smooth.

ALL WORK MUST BE DONE BY THE EXAMINEE WITHOUT ASSISTANCE OR COUNSEL. Failure to comply will result in the candidate test being voided.

All work on duplication must be given to the proctor upon completion, on completion date.

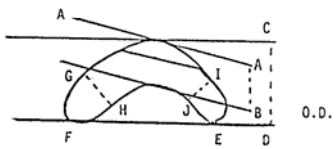
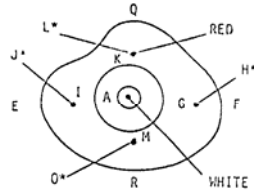


FABRICATION EXAMINATION EVALUATION POINTS AND ZONES

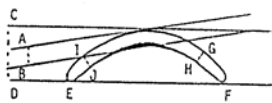
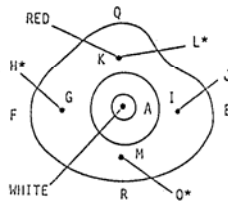


O.S.

CONVENTIONAL PROSTHESIS

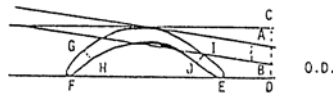
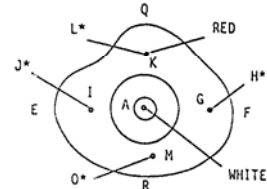


O.D.

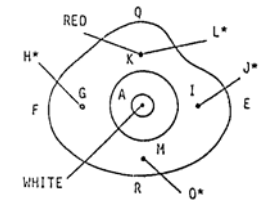


O.S.

SCLERAL SHELL PROSTHESIS



O.D.



*POSTERIOR MEASUREMENT POINTS (NOT SHOWN)

