

Johns Hopkins Bayview Medical Center

GENERAL CLINICAL RESEARCH CENTER

Policy No: 160

Pupilometry Measurement System

Original Date: April 10, 2003
Previous Date: None
Reviewed Date: None

PURPOSE: To provide policy and procedure for GCRC staff regarding the use and maintenance of the modified camera for pupillary measurement.

GENERAL INFORMATION:

Indications: use of pupillary camera to complete protocol assessments in support of GCRC-approved studies.

Contraindications: None

LOCATION: This policy applies to the GCRC.

EQUIPMENT:

Modified Polaroid One-Step Express

Polaroid 600 Instant Film

Moni-Chlor™ Towelettes

STAFF RESPONSIBLE: GCRC Medical Assistants and Registered Nurses

POLICY:

- 1) Determine that physician orders are present.
- 2) Pupillary pictures will be obtained in an organized and specified manner as outlined in the research protocol.
- 3) Appropriate cleaning procedures will be followed .
- 4) Film must be stored in a cool dry place. Refrigerate whenever possible. **Do not freeze.** For best results, use above 13°C (55°F). Below 13°C (55°F), place developing picture in a warm location, such as the pocket.
- 5) Camera will be locked in GCRC Out Patient Area when not in use.

PROCEDURE:

- 1) Review expiration date on film. If obtained directly from refrigerator, warm film to 13 C (55 F).
- 2) Angle flash bar down to rest on the lens assembly.
- 3) Document on front page of flowsheet (see attached) the specific conditions that will remain consistent for each pupil measurement:
 - a. Date
 - b. Time
 - c. Room
 - d. Lighting
 - e. Chair placement
 - f. Door open/shut
 - g. Curtains open/shut

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- h. Camera placement
 - i. Photo technique
 - j. Eye used left/right—technique and assistance used to keep eye open for filming
- 4) Photographer should be in a seated position, directly in front of seated subject, when taking photo.
 - 5) Depress switch on right side of camera till green light appears indicating camera is charged.
 - 6) The beveled edge of the lens adapter is rested comfortably against the skin of the subject's eye socket. Encourage subject to keep their eyelid open as wide as possible.
 - 7) The camera should be held horizontal. Depress shutter button and remove camera from the eye after flash occurs to allow the photo to be ejected.
 - 8) Review photo. If entire pupil is not fully delineated, retake picture.
 - 9) Label picture in study appropriate format and place in chart.
 - 10) Wipe camera lens using Moni-Chlor™ Towelette.

ORIGINATOR: GCRC Nursing Staff

REFERENCES:

Peer reviewed by BPRU Staff,
Peer reviewed by Audrey Gillette, POC Testing
Polaroid 600 Film Package Insert

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