Wilmer Eye Institute TearLab Fast Facts rev. 5-2022

Reference: HPO POCTW037 *Tear Fluid Osmolarity on the Tearlab Osmolarity System*

How to Perform Patient Testing:

- Open sterile package and remove the test card
- Attach the card to the TearLab pen
- Wait for the green light to turn on and beep
- Approach the patient, while wearing gloves, place the tip of the tear card on the outer corner of the lid. If no reading occurs, gently rub the tear card back and forth along the lower lid and then try again at the outer corner of the lower lid.
- Once the instrument beeps, place the TearLab pen back on the dock
- Make sure the tear card and the number on the dock are the same (if not use the up and down arrows to match the tear card)
- Repeat for the second eye
- **DO NOT PERFORM THE TEST IF YOU HAVE INSTILLED ANY EYE DROPS (MUST WAIT 15-20 MINUTES)**
- **IF YOU GET <275, PLEASE REPEAT THE TEST!**

How to perform Electronic Card Quality Control:

- This must be done *every day*
- Attach the blue electronic card to the TearLab pen
- Wait for the green light to turn on and TearLab pen to beep
- AFTER the green light goes off, dock the TearLab pen and wait for results – should be 334 +/- 3
- IF the readings are outside the acceptable range, check pen battery. If the LCD display reads BAT LOW, dock the pen to recharge the battery
  - If the battery is fully charged, wave the TearLab pen along the magnetic strip on the side of the dock so that the pen can reset itself.
- IF neither one of these things help, contact TearLab customer service
- Record the results on the QC logsheet

How to perform Liquid Quality Control:

- This must be done *monthly AND with a new shipment of tear cards or different lot number*
- Ampules should be stored at room temperature
- Take out one glass ampule and blue rubber sleeve
- Place blue rubber sleeve over the top of the ampule and twist off the top, REMEMBER this is glass, dispose of properly
- Attach the test card to the TearLab pen and tip the ampule upside down until a drop comes out onto the tip of the tear test card (do this for both test pens). One ampule per TearLab test pen should be used.
- Dock the pen and make sure numeric code matches the tear test card. Compare the results to the manufacturer's package insert for acceptability.
- Record the results on the QC logsheet.
- Do not continue with patient testing if the control results are outside the acceptable ranges.

Daily Room Temperature Recording

- Every day, record the min/max and current room temperature on the log sheet provided in the log book.
- After recording, clear the memory on the thermometer.
- Verify that the temperature is within acceptable range. Perform corrective action if outside the range.

Note:

If you are down to 5 ampules – please let clinical manager know so that more can be ordered.

All of this MUST be done for BOTH machines