

A new method for

Tear Volume Measurement

SMTube®

Strip Meniscometry Tube

5 seconds

Dry eye screening

Five seconds quantification for
the lower tear meniscus volume



 medison jaya raya

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Instruction for use

Without slitlamp (when used by paramedical staff)



Hold the center of SMTube strip. Do not touch a tip of strip to avoid potential infections.



Take the standing position with the patient as shown in the left photo. Fix the hand on the cheek of patient, so that the tip of SM- Tube is stabilized.



Immerse the tip of the L side into the tear meniscus of the left lower eyelid for 5 seconds to absorb tears. Take extra care not to touch the conjunctiva nor the cornea with the tip of the strip.



Read the score (length of the column stained by blue colour). Mark with an oil pen if necessary.



Switch to the R side of the strip, and perform the testing on the right eye in the same manner as done on the left eye.

With slitlamp (when used by paramedical staff)



Make sure to use the illumination with an essentially-minimum intensity to avoid the reflex secretion caused by the photostimulation. Use a diffuser if available.



Perform the testing on the left eye using the L side of the strip.



Read the score (length of the column stained by blue colour). Mark with an oil pen if necessary.



Switch to the R side of the strip, and perform the testing on the right eye. We recommend to fix the hand as shown in the left photo.

Hold a strip as follows

Make sure to hold the center part of SMTube during the examination. SMTube absorbs tears by capillary action, and holding the column parts or blocking the hole near the central of the strip (the end of the column) may disturb the capillary action.



Contraindications



When taking out the strip, do not touch the tip of SM Tube strip where the blue dye is impregnated.



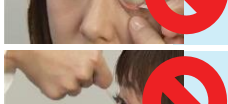
Do not block the hole near the center of the strip (the end of the column) during the examination. Blocking the hole will disturb the capillary action.



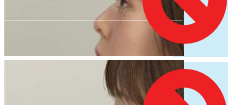
Never touch the cornea with the strip.



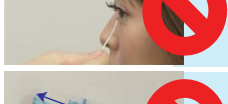
Do not deform or apply a pressure upon eyelid during the examination.



Please note that when applying the strip, keep the appropriate angle near the horizontal. In an example on the left, the strip is applied with a too upward angle.

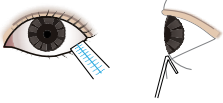
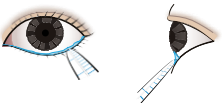


Please note that when applying the strip, keep the appropriate angle near the horizontal. In an example on the left, the strip is applied with a too downward angle.



When reading the score, adopt the highest value (indicated by a blue arrow) instead of the shortest value (indicated by a red arrow) or so.

Comparison with the Schirmer's test

	 The Schirmer's test	 SMTube®
Usage	Inserting the Schirmer strip inside the lower eyelid (conjunctival sac)	Immersing the tip of SM Tube strip into the tear meniscus
Required time	5 minutes	5 seconds x 2 (for both eyes)
Invasiveness	Invasive	Minimally-invasive