

<b>DEWS</b>	<b>DRY EYE: DIAGNOSTIC TEST TEMPLATE</b>	
<b>RAPPORTEUR</b>	A.J.Bron	16 <sup>th</sup> Oct 2004
<b>TEST</b>	<b>Meibography</b>	Mathers
<b>TO DIAGNOSE</b>	Meibomian gland morphology and density and drop out. Diagnosis of Meibomian gland dysfunction (MGD)	REFERENCES
<b>VERSION of TEST</b>	[ V 1 ]	Mathers and Billborough 1992
<b>DESCRIPTION</b>	Meiboscopy is the visualization of the meibomian gland by transillumination of the eyelid. Meibography implies photographic documentation	
<b>NATURE of STUDY</b>	Various studies	Mathers and Billborough 1992
<b>CONDUCT of TEST</b>	<b>Film Photography:</b> Trans-cutaneous infrared photography, as in cited papers. Quantification of the number of whole or partial glands missing in the central two thirds of each lower eyelid. In the GPC study, the result from the two eyes was averaged. Images can be read by a masked observer.	Jester et al. 1991; Mathers et al. 1991 (MGD blepharitis)
	Quantification: central 10 glands of each lower lid assessed.	Mathers et al. 1991
	<b>Videophotography:</b>	Mathers et al. 1994
<b>RESULTS of STUDY</b>	Various studies	
<b>Web Video</b>	Not available	
<b>Standardization</b>	Time of day [ ] Temperature [ ] Humidity [ ] Air speed [ ] Illumination [ ] Insensitive to these factors.	
<b>Diagnostic value</b>	Employed in Accutane study: Pre- Accutane treatment the meibography score was 1.0; There was a significant fall post treatment, to $2.5 \pm 1.2$ ( $p < 0.005$ ).	Mathers et al. 1991 (Accutane study).
<b>Repeatability</b>	Intra-observer agreement. [ - ] Inter-observer agreement. [ - ]	
<b>Sensitivity</b>	<b>(true positives)</b> [ - ]	
<b>Specificity</b>	<b>(100 – false positives)</b> [ - ]	
<b>Glossary</b>	MGD = Meibomian gland dysfunction	

**References:**

Mathers WD, Shields WJ, et al. (1991). Meibomian gland morphology and tear osmolarity changes with Accutane therapy. *Cornea* 10:286-290.

Mathers W, Shields W, et al. (1991). Meibomian gland dysfunction in chronic blepharitis. *Cornea* 10:277-285.

Mathers WD, Billborough M (1992). Meibomian gland function and giant papillary conjunctivitis. *Am J Ophthalmol* 114:188-192.

Mathers, W. D., T. Daley, et al. (1994). "Video imaging of the meibomian gland." *Arch Ophthalmol* 112(4): 448-9.