Sjögren's Syndrome Foundation's Clinical Practice Guidelines

Sjögren's Patients The Sjögren's Syndrome Foundation (SSF) has developed the first-ever U.S. Clinical Practice Guidelines for Ocular Management in Sjögren's to ensure quality and consistency of care for the assessment and management of patients. The SSE Clinical Practice Guidelines for Ocular Management in Sjögren's established that

Ocular Management in

The SSF Clinical Practice Guidelines for Ocular Management in Sjögren's established that, in a given patient, the clinician must determine whether the dry eye is due to inadequate production of tears, excess evaporation, or a combination of both mechanisms. The success of a treatment option depends upon proper recognition and approach to therapy. For the development of the SSF Ocular Guidelines, the Report of the International Workshop on Dry Eye (DEWS) was used as a starting point, then panels of eye care providers and consultants evaluated peer-reviewed publications and developed recommendations for evaluation and management of dry eye disease associated with Sjögren's.

SSF Ocular Guidelines Summary and Recommendation:

Evaluation of symptoms can be accomplished by use of a number of questionnaires to grade severity of symptoms. Practical considerations recommend use of three specific questions (Table 1). A number of clinical tests of tear function can be performed in the office setting to quantify the volume and stability of tear function, including tear meniscus height and

rapid tear film breakup time (TFBUT). Determination of tear secretion rate is the most helpful way to differentiate aqueous-deficient dry eye from evaporative dry eye, and this is usually accomplished by the Schirmer test. More advanced diagnosis of dry eye can be achieved by measuring tear film osmolarity, which can also be used to monitor response to therapy. Evaluation of lid blink function and health of the eyelid margin, particularly the meibomian glands, is necessary to quantify evaporative dry eye. Evaluation of the severity of dry eye disease is possible with application of topical dyes, including fluorescein, rose bengal, and lissamine green, to quantify damage to the ocular surface.

Management of dry eye depends upon the nature of the dry eye and the severity of symptoms. The algorithm presented in

Figure 1 details the options available. In early disease, tear replacement with topically applied artificial tear or lubricant solutions may be sufficient, but progressive or more severe inflammation of the lacrimal gland and ocular surface occur both as an inciting event in many cases and as a secondary effect as the dry eye disease worsens, called keratoconjunctivitis sicca (KCS), requires the use of dietary supplements (omega 3 essential fatty acids), anti-inflammatory measures (e.g., topical corticosteroids or cyclosporine), or oral secretagogues.

Plugging of the lacrimal puncta can be done once the inflammatory component of dry eye is controlled. Control of lid margin (meibomian gland) disease may require topical antibiotic or systemic doxycycline therapy. The most severe cases of dry eye, particularly those unresponsive to more standard therapy, may require use of topical autologous serum or partial closure of the interpalpebral fissure to reduce surface exposure. Scleral contact lenses may be needed to control severe ocular surface damage.

Dry eye may signal the presence of Sjögren's, particularly when it is associated with inflammation, difficulty in management, or dry mouth. A patient with suspected Sjögren's should be referred to a dentist for oral disease prevention/management and to a rheumatologist for systemic treatment.

Table 1 - Screening Questions for Dry Eye

Key screening questions for dry eye disease

A patient reporting 'Yes' to any of the following warrants a full ocular examination

How often do your eyes feel dryness, discomfort, or irritation? Would you say it is often or constantly? (Y/N)

When you have eye dryness, discomfort, or irritation, does this impact your activities (e.g. do you stop or reduce your time doing them)? (Y/N)

Do you think you have dry eye? (Y/N)



Figure 1: Treatment Algorithm Based Upon Severity Level and Response to Therapy

Aqueous deficiency without meibomian

gland disease

Diagnosis
Dry eye disease –

Treatment Sev	Treatment Severity Level 11	Severity Level 2	Severity Level 3	Severity Level 4	Evidence ²	Recommendation ³
• Edi	 Education and environment/diet modification Elimination of offending systemic medication Artificial tears, gels, ointments 	nodification medication			poob poob	STRONG STRONG STRONG
		Omega 3 essential fatty acid supplement	upplement		moderate	MODERATE STRONG
		 Anti-inflammatory therapy: cyclosporine 	losporine		pood	MODERATE STRONG
		 Anti-inflammatory therapy: pulse steroids 	se steroids		poog	MODERATE STRONG
		 Punctal plugs 			pood	MODERATE STRONG
		 Secretagogues 			pood	MODERATE STRONG
		 Moisture chamber spectacles 			poob	MODERATE STRONG
			 Topical autologous serum 		pood	MODERATE STRONG
			 Contact lenses 		pood	MODERATE STRONG
			 Permanent punctal occlusion 		poob	MODERATE STRONG
				Systemic anti-inflammatory medication	moderate	DISCRETIONARY
				 Eyelid surgery 	pood	MODERATE STRONG

good	good	good	good	moderate MODERATE STRONG	good MODERATE STRONG	good MODERATE STRONG	good MODERATE STRONG	good MODERATE STRONG	good MODERATE STRONG	good MODERATE STRONG	good MODERATE STRONG	good MODERATE STRONG	good MODERATE STRONG	good MODERATE STRONG	good MODERATE STRONG	good MODERATE STRONG	insufficient DISCRETIONARY	insufficient DISCRETIONARY	
 Education and environment/diet modification 	Elimination of offending systemic medication	 Artificial tears with lipid component 	Eyelid therapy; warm compress, massage	Omega 3 essential fatty acid supplement	 Anti-inflammatory therapy: cydosporine 	 Anti-inflammatory therapy: pulse steroids 	● Topical azithromycin	● Liposomal spray	 Possible oral doxycycline 	 Expression of meibomian glands 	Punctal plugs	• Secretagogues	Moisture chamber spectacles	• Topical autologous serum	Contact lenses	Permanent punctal occlusion	(Lipiflow pulsed thermal compression)	(Probing of meibomian gland)	

3 Recommendations range from strong, moderate strong and discretionary 2 Evidence is graded as good, moderate and insufficient 1 Assumes use of the International Dry Eye Workshop severity scale



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