DEWS	DRY EYE: DIAGNOSTIC TEST TEMPLATE	
RAPPORTEUR	A.J.Bron	16 th Oct 2004
TEST	Mixed tests	
ТО	To differentiate SSdry eye from nonSS-dry eye	REFERENCES
DIAGNOSE		
VERSION of TEST	[V1]	Shimazaki 1998
DESCRIPTION	Various tests	
NATURE of STUDY	Comparison of 27 SS with 29 age- and gender- matched patients with nonSS dry eye.	
CONDUCT of	Tests conducted in this order:	
TEST	Fluorescein and RBS 2μ l of 1:1 solution of 1% fluorescein with 1% bengal rose (Toda, Tsubota 1993) Cornea grading: fluorescein; 0-3 Conjunctival/cornea grading: 1-9 (van Bijsterveld 1969) BUT Average of 3 tests. Schirmer -1 Cotton thread (Sakamoto et al. 1993) Lower lateral lid margin 15 seconds Tear clearance (Xu et al. 1995) 10 μ l of 0.5% fluorescein with oxybuprocaine (Benoxil) Schirmer performed for 5 minutes Dilution (1; $\frac{1}{2}$; $\frac{1}{4}$; 1/8; 1/16/1/32/;1/64;1/120;1/256) expressed as the log	Toda, Tsubota 1993 van Bijsterveld 1969 Sakamoto et al. 1993
	Tear Function Index (TFI) derived from Schirmer value divided by tear clearance (Xu et al. 1995)	Xu et al. 1995
	Tear evaporation (at a separate visit) Meibography: (some performed on other days) Transillumination with L-3920 transillumination device (Inami, Co. Tokyo) Grade 0: No gland drop out Grade 1: Drop out in less than half of lower lid Grade 2: Drop out in more than half of lower lid Meibomian Expression: (obstruction) Degree of ease of expressing Meibomian secretion from the upper tarsus: Grade 0: clear meibum easily expressed Grade 1: cloudy meibum expressed with mild pressure Grade 2: meibum cannot be expressed even with hard pressure.	Shimazaki et al 1995
RESULTS of STUDY	Fluorescein and RB scores higher in SS than noSS dry eye (p<0.0001)	Shimazaki 1998

Comparing tear tests in SS and nonSS dry eye							
	Comparing to						
		SS n=27	nonSS n=29	P			
	FStain	5.04 ±2.79	1.59 ±0.91	< 0.0001			
	RBStain	4.74 ±260	1.52 ± 1.53	< 0.0001			
	BUT	2.85 ±2.84	4.48 ±3.25	0.069			
	Sch-1	2.67 ±1.78	3.24 ± 1.41	0.18			
	Clearance	3.41 ±1.12	3.43 ± 1.14	0.94			
	TFI	35.6 ± 44.5	41.4 v31.3	0.57			
	Thread	16.9 ±6.54	18.8 ±9.11	0.52			
X (1 X) 1	BUT not diffe Schirmer: No Thread Test: N Clearance: No TFI: No differ Evaporation r (p=0.0048) wi Meibomian dr group and 55.6 The incidence in the SS gro 0.028)						
Web Video	NA						
Materials:	Beno						
Standardization	Different requ						
Diagnostic value	This version : [] Other version: []						
Repeatability	Intra-observer						
	Inter-observer						
Sensitivity	(true positive	es) [-]				
Specificity	(100 – false j	positives) [-]				
Test problems	Note, BUT me influence the I						
Glossary	TFI: Tear Fun	ction Index					
*	1						

References

van Bijsterveld OP. (1969). Diagnostic tests in the sicca syndrome. Arch Ophthalmol 82: 10-14.

Sakamoto R, Bennett ES, et al. (1993). The phenol red thread tear test: a cross-cultural study. *Invest Ophthalmol Vis Sci* 34(13): 3510-3514.

Shimazaki ., Sakata M, et al. (1995). Ocular surface changes and discomfort in patients with meibomian gland dysfunction. *Arch Ophthalmol* 113(10): 1266-1270.

Shimazaki, J., E. Goto, et al. (1998). "Meibomian gland dysfunction in patients with Sjögren syndrome." *Ophthalmology* 105(8): 1485-1488.

Toda I, Tsubota K. (1993). Practical double vital staining for ocular surface evaluation. *Cornea* 12: 366-367.

Xu K-P, Yagu Y, et al. (1995). Tear Function Index. Arch Ophthalmol 113: 84-88.