DEWS	DRY EYE: DIAGNOSTIC TEST TEMPLATE	
RAPPORTEUR	A.J.Bron	16th Oct 2004
TEST	**Schirmer-1 Test –without anaesthesia**	
TO DIAGNOSE	Aqueous deficient dry eye as a component of Sjőgren's Syndrome.	REFERENCES Vitale et al. 1994
VERSION of TEST	[V 1]	
DESCRIPTION	An estimation of tear flow stimulated reflexly by insertion of a filter paper into the conjunctival sac.	
NATURE of STUDY	22 centres from 11 countries provided data on a total of 447 SS and 246 controls (246 1°SS; 201 2°SS; 113 connective tissue disease without SS and 133 normal controls)	
CONDUCT of TEST	**Sch-1: without anaesthetic**, Standard Schirmer Strips Placed over the lateral part of the lower lid Eyes closed Read length from notch to edge 5 minutes	
RESULTS of STUDY	See Mixed Tests –European criteria	
Web Video	Not available:	
Materials:	• Schirmer papers (source not stated)	
Standardization	Time of day [√] Temperature [√] Humidity [√] Air speed [√] Illumination [√] . Assumed to influence.	
Repeatability	**Sch-1:** Intra-observer agreement. [-] Inter-observer agreement. [-]	
Sensitivity	**(true positives)** [75.1%] ≤ 5mm cut off:	
Specificity	**(100 – false positives)** [76.4%] ≤ 5mm cut off:	
Sensitivity	**(true positives)** [82.7%] ≤ 10 mm cut off:	
Specificity	**(100 – false positives)** [67.9%] ≤ 10mm cut off:	
Other Stats	Degree of agreement between tests using Cohen's kappa (*Gower's similarity coefficient*) Sch-1 and RBS said to have an 'acceptable' degree of concordance <table><tr><td></td><td>Sch-1</td><td>RBS</td><td>BUT</td><td>TFLL</td></tr><tr><td>Sch-1</td><td>1 *1*</td><td>0.415; 0.706</td><td>0.240; 0.645</td><td>0.374; 0.699</td></tr><tr><td>RBS</td><td></td><td>1 *1*</td><td>0.251; 0.617</td><td></td></tr><tr><td>BUT</td><td></td><td></td><td>1 *1*</td><td></td></tr><tr><td>TFLL</td><td></td><td>0.399; 0.692</td><td>0.335; 0.706</td><td>1 *1*</td></tr></table> .	

References:

Vitali C, Moutsopoulos HM, et al. (1994). The European Community Study Group on diagnostic criteria for Sjogren's syndrome. Sensitivity and specificity of tests for ocular and oral involvement in Sjogren's syndrome. *Ann Rheum Dis* 53(10): 637-47.