

**Supplement table : Smoking affects schirmer value**

Smoking	MetS			pre-MetS			non-MetS			total		
	No	Yes	<i>P</i>	No	Yes	<i>P</i>	No	Yes	<i>P</i>	No	Yes	<i>P</i>
N	30	17		37	19		218	46		285	82	
Tear volume by Schirmer test (mean±SD, mm) 2]	12.6±10.1	8.2±8.5	0.138	18.6±11.3	12.1±5.9	0.023	19.3±11.9	15.1±11.5	0.033	18.5±11.8	13.0±10.2	0.000
Schirmer value ≤ 5 mm)(N(%)) 1]	7 (23.3)	9 (52.9)	0.057	8 (21.6)	2 (10.5)	0.467	35 (16.1)	10 (21.7)	0.388	50 (17.5)	21 (25.6)	0.114
Schirmer value >5>mm (N(%))	23 (76.7)	8 (47.1)		29 (78.4)	17 (89.5)		183 (83.9)	36 (78.3)		235 (82.5)	61 (74.4)	

Statistical analysis: 1) Fisher's exact test , 2) t-test