

## **The effect of systemic isotretinoin dose on dry eye parameters in patients treated from acne vulgaris**

**Purpose:** To assess the effect of systemic isotretinoin dose on dry eye parameters in patients treated from acne vulgaris.

**Patient and Methods:** Forty patients with different types of acne vulgaris treated with a dose 0.5mg/kg/day or 1mg/kg/day according to severity and response to treatment for six months. Ophthalmological assessment was done before treatment, 3 months and 6 months of treatment, and this included: tear break uptime, schirmer test, corneal fluorescein staining.

**Results:** Our study revealed statistically significant affection of dry eye parameters (p value <0.05).

**Conclusion:** There is a strong association between isotretinoin therapy and the development of obvious ocular side effects in the form of dry eye disease that can be controlled with careful follow up, but still safe with minimal difference in side effects between high and low doses.