

## عنوان مقاله:

How Reliable is the Lacrimal Scintigraphy Report An Inter- And Intra-Observer Agreement Study

## محل انتشار:

بیست و هشتمین کنگره سالیانه انجمن چشم پزشکی ایران (سال: 1397)

تعداد صفحات اصل مقاله: 1

## نویسندگان:

Mohsen Bahmani Kashkouli - Eye Research Center, Rassoul Akram Hospital, Iran University of Medical Sciences, Tehran, Iran

Navid Abolfathzadeh - Eye Research Center, Rassoul Akram Hospital, Iran University of Medical Sciences, Tehran, Iran

Parya Abdolalizadeh - Eye Research Center, Rassoul Akram Hospital, Iran University of Medical Sciences, Tehran, Iran

Nasser Karimi - Eye Research Center, Rassoul Akram Hospital, Iran University of Medical Sciences, Tehran, Iran

## خلاصه مقاله:

**Purpose:** To assess the inter- and intra-observer agreement for lacrimal scintigraphy (LS) reports with and without considering the irrigation test results **Methods:** In a prospective, observational, cross sectional study, two masked clinicians (lacrimal surgeon and nuclear medicine specialist) independently reported 100 LS images (50 patients of > 6 years of age with unilateral anophthalmic socket) in a university hospital. The lacrimal surgeon performed a diagnostic irrigation test and repeated the report of the same LS images 2 years after the first report (intra-observer agreement). A weighted Kappa analysis was performed to determine inter- and intra-observer agreement for the type (normal, partial and complete obstruction) and location (presac, preduct, and intraduct) of the obstruction. Subgroup analysis was also performed with consideration of irrigation test results. **Results:** A significantly moderate agreement was found between lacrimal surgeon and nuclear medicine specialist for both the type (Kappa=0.55) and location (Kappa=0.48) of obstruction. Agreement values improved for both the type (kappa=0.61) and location (Kappa=0.56) of obstruction in cases with normal irrigation test. It, however, decreased in cases with abnormal irrigation test (Kappa=0.41 for the type and 0.31 for the location of obstruction). Strong and significant intra-observer (lacrimal surgeon) agreement was found for both the type (Kappa=0.66) and location (Kappa=0.69) of obstruction. LS and irrigation tests showed no to slight agreement. **Conclusion:** moderate agreement was found between lacrimal surgeon and nuclear medicine specialist regarding the interpretation of LS which decreased in cases with abnormal irrigation test. Intra-observer agreement was strong for the lacrimal surgeon

## کلمات کلیدی:

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