

## عنوان مقاله:

Cervicovaginal Cytopathology by Liqueprep™ a New Liquid Based Method in Comparison with Conventional Pap Smear

## محل انتشار:

فصلنامه آسیب شناسی ایران، دوره 4، شماره 2 (سال: 1388)

تعداد صفحات اصل مقاله: 6

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## خلاصه مقاله:

Background and Objective: The aim of this study was to compare the screening performance of a new modified liquid-based cytology method (Liqueprep™) with conventional PAP smear (CP) in a low risk population, using colposcopy followed by histology as gold standard. Patients and Methods: This cross-sectional study was performed on random referred specimens to a general gynecological clinic in Tehran, during 20 months by a split-sample method. In both CP and Liqueprep™ group, all positive and 10% of negative results of smears were followed by colposcopy. A biopsy was taken whenever any atypical transformation zone was seen. Sensitivity, specificity, negative and positive predictive values (PV), and overall accuracy of both methods were analyzed in relation to histology. Results: A total of 1265 patients were analyzed by two methods. In 158 (12.5%) of cases histological diagnosis was made. Liqueprep™ samples (94.7%) were more adequate than CP (92.1%). There was not any low or high-grade squamous intraepithelial lesion (SIL). Atypical squamous cell of undetermined significance (ASC-US) was diagnosed more with CP than with Liqueprep™ (1.43% vs. 0.79%) while pathologically 60% of ASC-US in Liqueprep™ and 16.6% in CP had degrees of SIL. The Liqueprep™ had a significantly higher sensitivity (83% vs. 66%) and positive PV (83% vs. 33%) than the CP to detect SIL at histology but the difference in specificity was non significant (98% vs. 86%). Conclusions: This study confirms the superiority of the Liqueprep™ method to detect cervical lesions in a low risk population.

## کلمات کلیدی:

Cervix Uteri, Cytology, Cervical Pap Smear, Liqueprep, Screening

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