

## عنوان مقاله:

Assessment of the Diagnostic Value of High-Risk HPV Molecular-based Methods for Triage of Iranian Women with Abnormal Cytological Findings of ASC-US and LSIL

## محل انتشار:

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## خلاصه مقاله:

**Background & Objective:** Recent advances in molecular testing for human papillomavirus (HPV) has increased the accuracy of cervical screening programs. This study intended to estimate the diagnostic value of high-risk (HR) HPV DNA- and E6/E7 mRNA-based methods for triage of Iranian women with abnormal cytological results regarding the histopathological cut-off. **Materials & Methods:** In this cross-sectional study, ۳۶۰ non-pregnant women ( $\geq ۲۱$  years) who had faced abnormal cytological findings (ASC-US and LSIL) were enrolled and referred for further diagnostic tests. The INNO-LiPA® HPV Genotyping Extra-II and Aptima HPV assay kits were used in DNA- and E6/E7 mRNA-based

methods for detection of HR-HPV. Regarding the CIN-2+ histopathological cut-off, the diagnostic value of each molecular-based assay was calculated. Results: Among the study participants, 260 cases had ASC-US, and 100 had LSIL. The overall positivity rate for DNA- and mRNA-based methods was 74.4% (268/360) and 64.2% (231/360), respectively. Fifty-nine (16.4%) individuals showed CIN-2+. The DNA-based test showed higher sensitivity (100%) than the mRNA-based method (93.2%), while the mRNA-based method revealed greater clinical specificity (41.5%) compared to the DNA-based test (30.6%). Conclusion: Our results revealed appropriate clinical sensitivity of the molecular-based methods for triage of Iranian women with abnormal cytological results; however, the mRNA-based .+method showed greater specificity for detection of CIN-2

### کلمات کلیدی:

ASC-US, Cervical Intraepithelial Neoplasia (CIN), Human Papillomavirus (HPV), LSIL, Molecular-based methods

### لینک ثابت مقاله در پایگاه سیویلیکا:

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