6th International Congress on

Gynecology & Gynecologic Oncology

July 23-24, 2018 | Rome, Italy

Accuracy of mRNA HPV tests for diagnostic of precursor lesions and cervical cancer: A systematic review and a meta-analysis

Maria Inês Rosa, Ana Cristina L Macedo, João Carlos N Gonçalves, Antonio José Grande, Daniela Vicente Bavaresco and **Napoleâo Chiaramonte Silva**
University of Extremo Sul Catarinense, Brazil

Introduction: Given the evidence consensus in regard to the causal role of high-risk human papillomavirus in the development of cervical cancer, E6/E7 mRNA HPV expression could be closely related with progression to cervical cancer and could represent a promising predictor of this one. This is a systematic review to evaluate the accuracy of the biomarker mRNA HPV of cervical smear, to identify cervical intraepithelial neoplasia (CIN) 2 or 3 and cervical cancer. The reference test was histopathological.

Materials & Methods: Eligible studies were identified by doing a search of the electronic databases on Medline via Pubmed, Lilacs, Cochrane Library, Embase and Grey literature, for papers published between January 1990 and October 2017.

Results & Discussion: After screening, a total of 51 studies with 23,676 patients met the criteria for inclusion was analyzed. Dichotomization was done defining four categories: CIN2+ versus CIN 1-, CIN2+ versus normal, CIN 3+ versus normal and CIN 3+ versus CIN1-. For CIN2+ vs. CIN1- 44 studies were included and showed a pooled sensitivity of 81.4% (95%CI 80.4-82.4) and pooled specificity of 70.1% (95%CI 69.4-70.7). DOR was 11.57 (95%CI 8.89-15.05) and AUC was 0.85 (95%CI 0.81–0.88). Analyzing by technique, Aptima had the better performance, showing an AUC 0.90 (CI 95% 0.84-0.98), pooled sensitivity of 93.6 (95%CI 92.7-94.5), pooled specificity of 64.1% (95%CI 63.2-65.0).

Conclusion: This study supports the current hypothesis that mRNA HPV assay is an adequate tool in screening of cervical cancer, both in primary and secondary ones.

Biography

Maria Inês Rosa is a Professor from University of Extremo Sul Catarinense, Brazil. She is a Professor of the Medicine Course, and has participated in many prestigious international conferences like Catarinense and Paranaense Congress of Medical Education..

mir@unesc.net

Gynecology & Obstetrics
ISSN: 2161-0932

Gynecology Meeting 2018
July 23-24, 2018

Volume 8

Page 68