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Human papillomavirus infection in genital women in four regions of Senegal

El Hadji Seydou Mbaye^{1,2}, Tarik Gheit¹, Ahmadou Dem², Sandrine McKay-Chopin¹, Ndeye Coumba Toure-Kane², Souleymane Mboup², Massimo Tommasino¹, Bakary S Sylla¹ and Cheikh Saad Bouh Boye²

¹International Agency for Research on Cancer (IARC/WHO), France

²Aristide Le Dantec Hospital, Senegal

Cervical cancer is the most frequent cancer among women in Senegal. However, there are few data concerning the HPV types inducing neoplasia and cervical cancers and their prevalence, in the general population of Senegal.

Aim: The aim of this study is to determine the prevalence of HPV infection in Senegalese women aged from 18 years and older.

Materials and Methods: A study was performed on 498 cervix samples collected from healthy women aged 18 and older in Dakar. 438 other samples were collected from three other regions, Thies, Saint Louis and Louga. The samples were screened for 21 HPV genotypes using an HPV type-specific E7 PCR bead-based multiplex genotyping assay (TS-MPG) which is a laboratory-developed method for the detection of HPV.

Results: The prevalence for pHR/HR-HPV in the region of Dakar was 20.68%. HPV 52 (3.21%) was the most prevalent HPV type, followed by HPV 16 (3.01%) and HPV 31 (3.01%). In the regions of Thies, Louga and Saint Louis, the prevalence for pHR/HR-HPV was 29.19%, 23.15% and 20% respectively.

Conclusion: The study revealed the specificity of the HR-HPV

prevalence in Dakar and other regions of Senegal. The patterns differs from the one observed in the other regions of the world and rise the issue of the development of vaccination program in the country. Such a program should take into account the real HPV prevalence for an effective protection of HPV-associated diseases.

Speaker Biography

El Hadji Seydou Mbaye was born in 1978 in Kaolack a region of Senegal. During 2008-2013, he pursued his PhD in Biology and Human Pathologies with the collaboration of the International Agency for Research on Cancer (IARC) /WHO, Lyon (France); he was certified by the Federation International of Gynecology Obstetrics (FIGO), the Accreditation Council of Oncology in Europe (ACOE, www.acoe.be), the Institute Catalan of Oncology (ICO) for cervical cancer prevention in support of CME for physicians. These credits are also recognised as Physician's Recognition Award (AMA PRA Category 1 credits) by the American Medical Association. He was certified by the United Nations for Basic Notion of Security on the Ground-Protection, Health and behavior, by the International Agency for Research on Cancer (IARC)/World Health Organization, Lyon (France) for Safety Certificate. He has published 1 Book with a style of philosophical story. Author of the world program against cancer in low and middle incomes countries, he is first authoring of more than 90 articles published in reputed journals. He is editorial board member of the International Journal of Immunology, associate membership of the World Society for Virology and also, member of BCNet International Working Group, International Agency for Research on Cancer (IARC)/World Health Organization (WHO).

e: seydou27@hotmail.com



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