Mukherjee et al. BMC Infectious Diseases 2014, **14**(Suppl 3):E34 http://www.biomedcentral.com/1471-2334/14/S3/E34

EPOSTER PRESENTATION

BMC Infectious Diseases



Prevalence of HPV in the oral cavity of HIV seropositive Indian women undergoing HAART

Jaya Mukherjee^{1*}, Ritwik Dahake², Deepa Das¹, Gopal Sharma¹, Bhagyashri Purandare¹, Abhay Chowdhary²

From 2nd International Science Symposium on HIV and Infectious Diseases (HIV SCIENCE 2014) Chennai, India. 30 January - 1 February 2014

Background

Oral manifestations (such as warts) of HIV infection are evident of disease progression, occurring in 30–80% of affected population. Recent evidence indicates that Human Papillomavirus (HPV) related diseases are increased in the oral cavity of HIV seropositive individuals irrespective of HAART. This study was undertaken to evaluate prevalence of oral HPV infection in Indian HIV seropositive women with/without oral warts.

Methods

Detection of HPV was carried out from saliva of 60 women divided into equal groups of HIV seropositive with/without warts and age/sex matched healthy controls with/without warts by nested PCR using consensus primers MY09/11 and GP5+/6+ for L1 gene followed by sequencing and sequence analysis. The sequences were typed using the HPV L1 typing tool available on http:// pave.niaid.nih.gov/#pavic.

Results

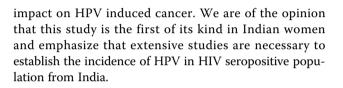
Only one sample was detected to be positive for HPV (prevalence of 6.67%) and was from the HIV seropositive women with warts group. The HPV serotype was determined to be the low risk non-oncogenic HPV Type 6 by the L1 typing tool and multiple sequence alignment.

Conclusion

While this was a preliminary study to determine prevalence of HPV in HIV seropostive women, our study has determined a positive correlation with multiple warts and oral sex as factors associated with presence of HPV. Our study also questions whether HAART has a beneficial

* Correspondence: drjaya_mukherjee@yahoo.co.in

¹Department of Oral Medicine Diagnosis and Radiology, YMT Dental College and Hospital, Navi Mumbai-410210, Maharashtra, India



Authors' details

¹Department of Oral Medicine Diagnosis and Radiology, YMT Dental College and Hospital, Navi Mumbai-410210, Maharashtra, India. ²Department of Virology, Haffkine Institute, Mumbai-400012, Maharashtra, India.

Published: 27 May 2014

doi:10.1186/1471-2334-14-S3-E34 Cite this article as: Mukherjee *et al.*: Prevalence of HPV in the oral cavity of HIV seropositive Indian women undergoing HAART. *BMC Infectious Diseases* 2014 14(Suppl 3):E34.

Submit your next manuscript to BioMed Central and take full advantage of:

- Convenient online submission
- Thorough peer review
- No space constraints or color figure charges
- Immediate publication on acceptance
- Inclusion in PubMed, CAS, Scopus and Google Scholar
- Research which is freely available for redistribution

) BioMed Central

Submit your manuscript at www.biomedcentral.com/submit



© 2014 Mukherjee et al; licensee BioMed Central Ltd. This is an Open Access article distributed under the terms of the Creative Commons Attribution License (http://creativecommons.org/licenses/by/4.0), which permits unrestricted use, distribution, and reproduction in any medium, provided the original work is properly cited. The Creative Commons Public Domain Dedication waiver (http://creativecommons.org/publicdomain/zero/1.0/) applies to the data made available in this article, unless otherwise stated.

Full list of author information is available at the end of the article