Prevalence of abnormal anal pap smear in HIV positive women diagnosed with Vaginal Intraepithelial Neoplasia (VaIN)

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The authors have no financial conflicts to disclose
Introduction

Persistent HIV infection is considered a necessary condition for the development of VaIN.
Immunosuppression further increases the risk of vaginal neoplasia.
VaIN is often associated with CIN and VIN.
The prevalence of VaIN and anal HPV infection is unknown.
Objective

To evaluate the prevalence of abnormal anal cytology (anal pap smear) in a cohort of women living with HIV, diagnosed with Vaginal Intraepithelial Neoplasia (VaIN)
Method

Retrospective chart review of 38 patients with biopsy-proven VaIN
UM/JMH Ob/Gyn Special Immunology HIV clinic
January 2009 to June 2016
Anal and cervico/vaginal pap smears reviewed
Data was analyzed using descriptive statistics
UM/JMH Ob/Gyn Special Immunology Clinic

Gynecological and Obstetrical Care: Women Living with HIV

- Cervico-vaginal cytology screening
- Colposcopy and biopsies
- Anal cytology screening

Initiated in 1985

Academic medical center

900 women screened annually

- 800 cervico-vaginal Paps / 300 Colposcopies / 600 Anal Paps

Partially funded: HRSA Ryan White Award
Results (n=38)

Age: 57.2 (SD +/- 6.0)

Race:
- Non-Hispanic blacks: 22 (58%)
- Hispanic: 2 (5%)
- Caribbean: 14 (37%)
Hysterectomy

92%

Yes  No
Results

Hysterectomy

29% Cervical dysplasia

92% Yes

IFCPC2017 World Congress
Results (n=38)

Cervico/Vaginal Cytology:
73% Abnormal

- Negative/HPV 10 (26%)
- VaIN-I 21 (55%)
- VaIN-II 2 ( 5%)
- VaIN-III 3 ( 8%)
- CIS 2 ( 5%)
Results

Anal Cytology (Anal pap):
36.8% LSIL or Higher

- Negative: 2 (5%)
- ASCUS: 22 (58%)
- LGSIL: 12 (32%)
- HGSIL: 2 (5%)
Conclusions

Abnormal anal pap smear are frequently present among women living with HIV, diagnosed with VaIN.
Recommendation

Anal pap smear screening with subsequent high resolution anoscopy (HRA) when indicated should be considered in HIV positive patients diagnosed with VaIN
Thank you