ANAL CANCER SCREENING IN HIV PRIMARY CARE: UPTAKE AND OUTCOMES

Irving E. Salit for the STANDOUT STUDY GROUP

HIV and Co-morbidities Session November 18, 2013 – 3:30 PM



NOVEMBER 17-19, 2013

CHANGING THE COURSE OF THE **HIV PREVENTION, ENGAGEMENT** AND **TREATMENT CASCADE**



INTRODUCTION

Anal Cancer

- Caused by the Human Papillomavirus (HPV)
- Occurs at high rates in HIV+ MSM

Screening for anal pre-cancers

- Similar methods to cervical cancer screening
- Anal Pap tests and High Resolution Anoscopy (HRA).
- The pre-cancers can be ablated

Previous screening studies in HIV+ MSM

- Almost all have anal HPV and 90% have oncogenic HPV
- An abnormal anal Pap test is sensitive but not specific
- A high-grade (HSIL) Pap test is insensitive but very specific
- The best test is to go directly to HRA but costly and time-consuming
- Alternatively, screen with Pap test first and then do HRA only if abnormal Pap



ANAL PAP



SHTN 2013 CH





CHITN 2013 RETEARCH CONFERENCE CHANGING THE COURSE AND HIV PREVENTION, ENGAGEMENT AND TREATMENT CASCADE

INTRODUCTION

Who would not want to get free cancer screening?

- 83% of MSM stated that they were willing to accept free screening
- Only 11-14% of MSM and 33% of HIV+ MSM have had anal Pap smears in the past year
- About 86% of women have had at least one cervical Pap test
- 50% had a cervical Pap test in the previous 6 months



AIMS

STANDOUT STUDY

- Examine response rates to an invitation for anal cancer screening
- Identify factors associated with uptake of anal cancer screening
- Identify barriers to participation
- Improve education of the target population (HIV+ MSM)
- Provide training of family physicians in simple screening (anal Pap tests)
- Treat those with high-grade anal lesions



METHODS

Study Design

- All previously unscreened HIV+ MSM from 9 HIV primary care practices were invited to receive anal cancer ۲ screening
- Responders had anal cytology done •
- Focus groups for participants and refusers/non-responders ۲
- Those with high-grade squamous intraepithelial lesions (HSIL) on anal cytology were offered HRA ullet
- Those with AIN 2/3 on biopsy were randomized to receive Trichloroacetic acid (TCA) or Infra-red Coagulator • (IRC) treatments.









and the second secon





CHANGING THE COURSE IN THE OURSE IN THE HIS OF THE OURSE IN THE OURSE OF THE OURSE REATMENT CASCADE





Factors associated with abnormal cytology

	Normal	LSIL	HSIL	
	n=208	n=95	n=24	P valu
Age	49 (43-56)	47 (40-53)	46 (35-545)	0.08
Years since HIV dx	11 (5-20)	8 (4-17)	13 (5-20)	0.10
Born in Canada	136 (67%)	67 (71%)	15 (63%)	0.62
Smoking Status				0.02
Current Smoker	47 (23%)	33 (35%)	8 (33%)	
Past Smoker	87 (42%)	22 (23%)	9 (38%)	
Never Smoked	72 (35%)	40 (42%)	7 (29%)	
Recent CD4	540 (400-690)	480 (350-650)	560 (355-705)	0.11
Undetectable Viral Load	180 (88%)	74 (79%)	22 (92%)	0.08
Any Symptoms	108 (52%)	57 (60%)	16 (67%)	0.22
Any previous anal disorders	111 (53%)	57 (60%)	14 (58%)	0.54
ARV Status				
No current treatment	17 (8%)	13 (14%)	1 (4%)	0.31
PI based cART	31 (15%)	13 (14%)	3 (13%)	
NNRTI based cART	97 (47%)	43 (45%)	8 (33%)	





RESULTS

- There were no differences in cytology results with respect to symptoms, HIV duration, viral load or antiretroviral use.
- Current smokers were most likely to have abnormal cytology
- In a sample of 1733 men offered screening for anal cancer we have so far found and removed precancerous lesions from 17 patients (~1%)



PREVENTION, ENGAGEMENT,

SUMMARY

- About half of the HIV+ MSM invited for anal cancer screening agreed to have it done
- High-grade (HSIL) Pap tests found in 8.2 %
- Smoking was a significant risk factor
- Most with cytologic HSIL also had histologic high-grade disease lacksquare
- IRC appeared to be more successful than than TCA at ablating high-grade disease •



PREVENTION ENGAGEMENT

CONCLUSIONS

• Population screening for anal cancer can find pre-cancers and cancers and increase awareness amongst doctors and patients



HANGING THE COURSE of M IV PREVENTION, ENGAGEMENT REATMENT CASCADE

FUTURE STUDIES

• Focus groups were done to discern reasons for refusing or agreeing to be screened. Need larger samples.



CHANGING THE COURSE IN HIV PREVENTION, ENGAGEMENT REATMENT CASCADE

STANDOUT STUDY GROUP

ANOSCOPISTS

- Jill Tinmouth \bullet
- Irving Salit \bullet
- **Evan Collins** •

PRIMARY CARE PHYSICIANS

- Colin Kovacs
- **David Fletcher**
- William Barrie ${\bullet}$
- Megan Acsai •
- Malcolm Hedgcock •
- Dennis Conway •
- **Benny Chang** •
- David Tilley
- Barry Merkley

FOCUS GROUPS

Liviana Calzavara

Karen Ryder

STATISTICIANS

Janet Raboud

Sandra Blitz

RESEARCH ASSISTANT

Banita Aggarwal

THANKS TO OUR STUDY PARTICIPANTS!

FUNDING Canadian Cancer Society

NGING THE COURSE - M IV PREVENTION, ENGAGEMENT