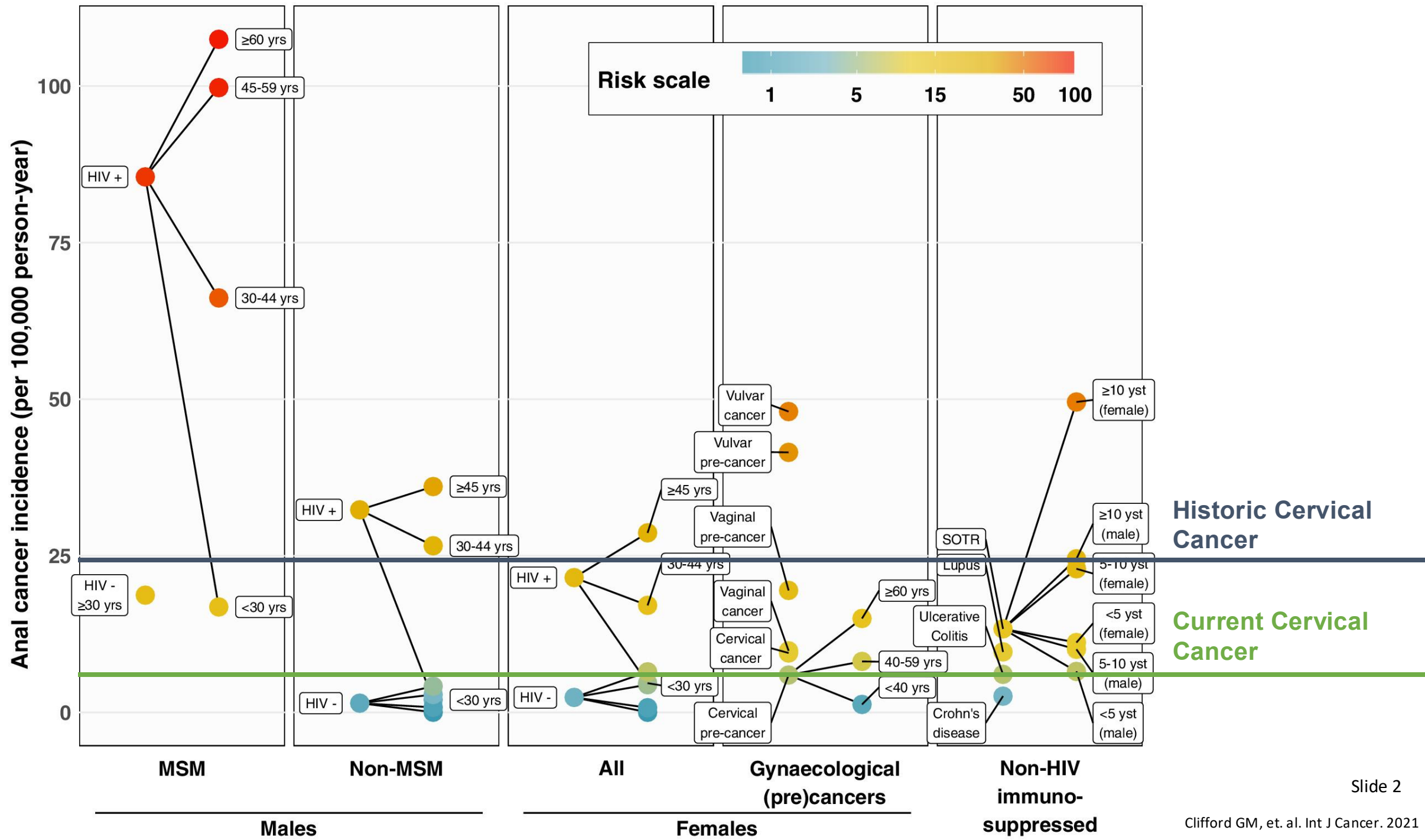


Should we be
screening
MSM & PLWH
for anal cancer
in 2025?

Chris Kenyon 2025





The Solution = screening

Treatment resulted in a 57%
reduction in anal cancer
(95% CI, 6% to 80%, $P=.029$)



EACS 2025

Cancer: Screening Methods⁽ⁱ⁾

Anal cancer

Person	MSM and TW age > 35y, men who have sex with women (MSW) and CisW age >45y or previous vulvar HSIL or cancer
Procedure	Digital rectal exam, anal cytology and HPV16/High-risk HPV
Evidence of benefit	Reduces incidence of anal cancer
Screening interval	1 (up to 2 years if both cytology and (HR-HPV or HPV16) neg)
Comments	Positive cytology or HPV should be followed up with high resolution anoscopy

*Some screening
programmes can help*

*All screening
programmes can harm*

Wilson's Criteria for introducing screening

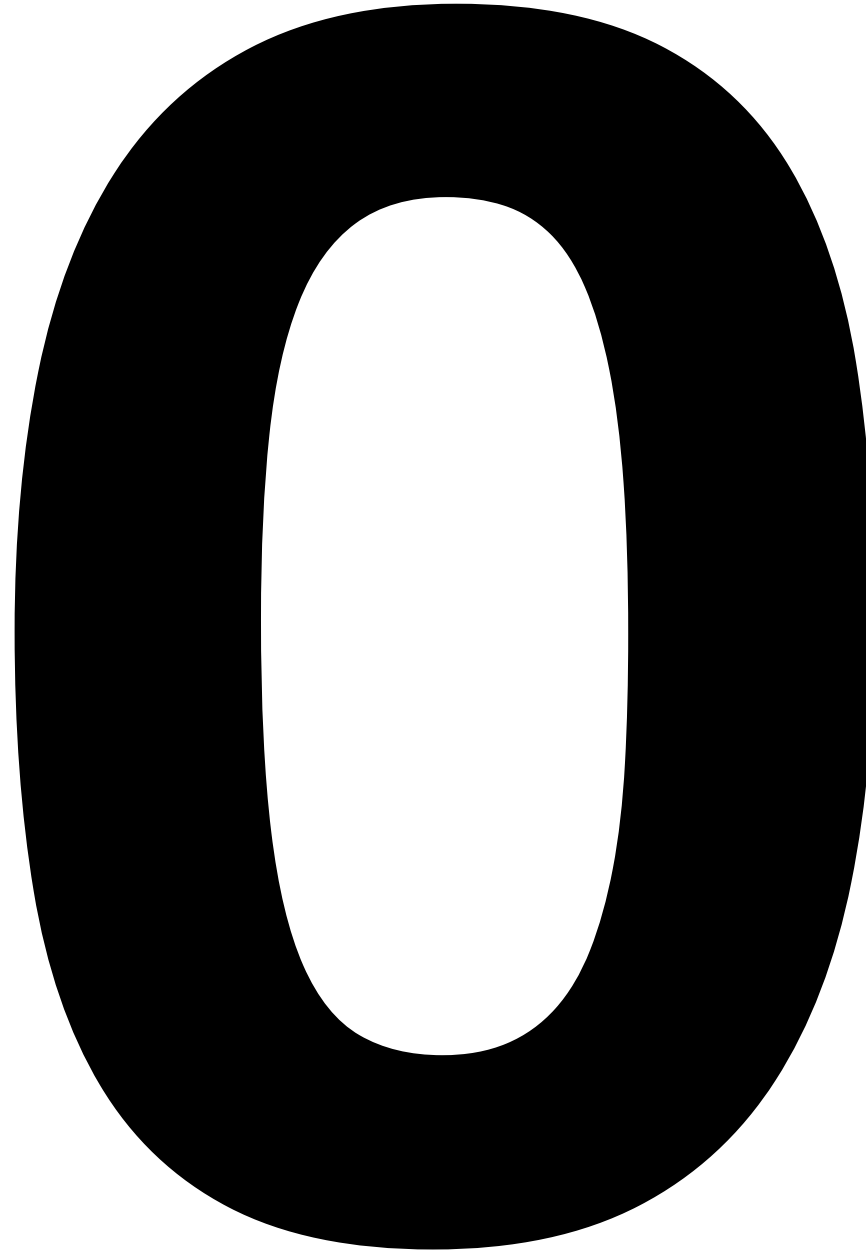
- 1 The condition being screened for should be an important health problem
- 2 The natural history of the condition should be well understood
- 3 There should be a detectable early stage
- 4 Treatment at an early stage should be of more benefit than at a later stage
- 5 A suitable test should be devised for the early stage
- 6 The test should be acceptable
- 7 Intervals for repeating the test should be determined
- 8 Adequate health service provision should be made for the extra clinical workload resulting from screening
- 9 The risks, both physical and psychological, should be less than the benefits
- 10 The costs should be balanced against the benefits

UK National Screening Committee criteria

There should be evidence from high-quality **RCTs** that the screening reduces **mortality or morbidity**



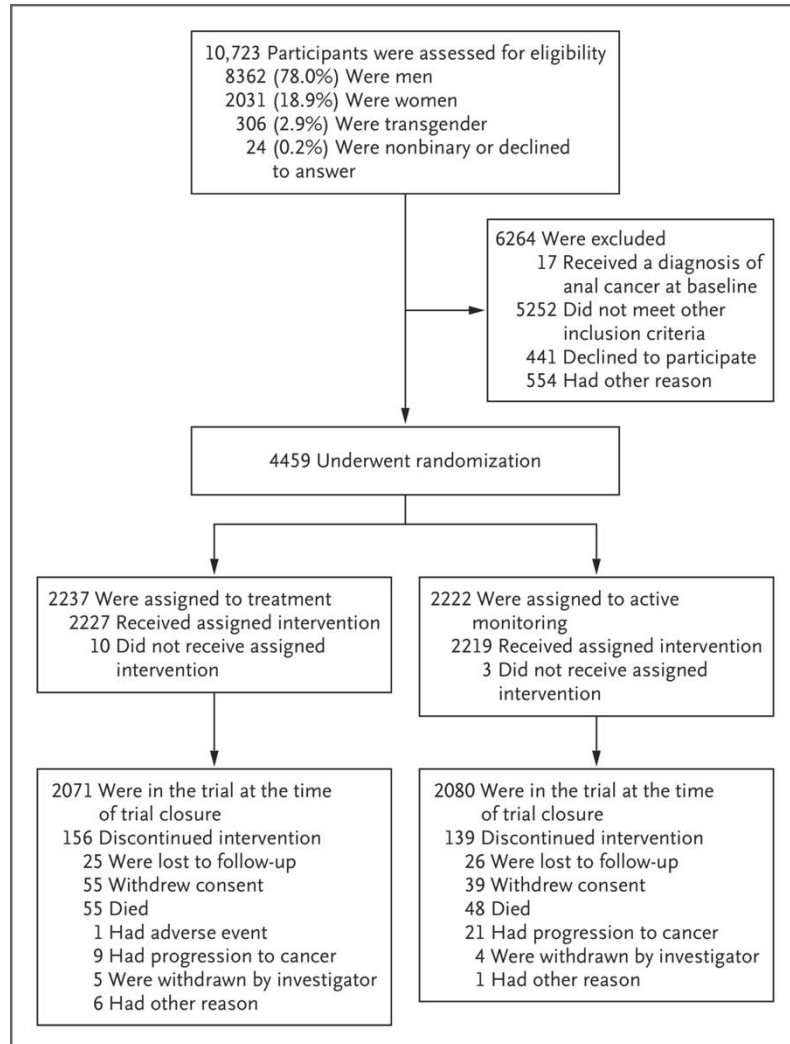
Number of RCTs showing
screening for anal cancer
-> ↓ morbidity/mortality



RESEARCH SUMMARY

Treatment of Anal High-Grade Squamous Intraepithelial Lesions to Prevent Anal Cancer

Palefsky JM et al. DOI: 10.1056/NEJMoa2201048



the
ANCHOR
study

Treatment

The NEW ENGLAND JOURNAL of MEDICINE

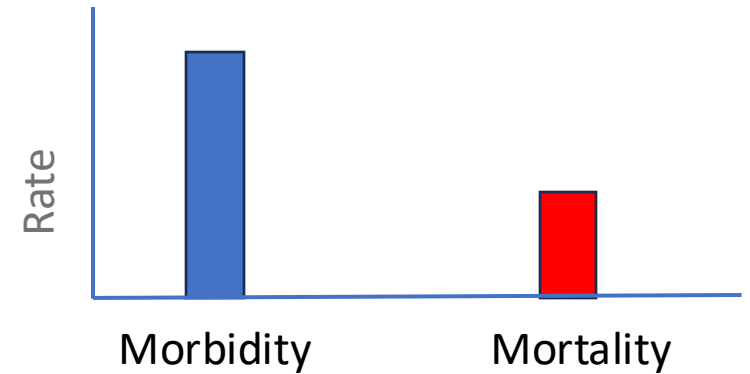
RESEARCH SUMMARY

Treatment of Anal High-Grade Squamous Intraepithelial Lesions to Prevent Anal Cancer = ANCHOR Trial

Palefsky JM et al. DOI: 10.1056/NEJMoa2201048



R/



Entry criteria:

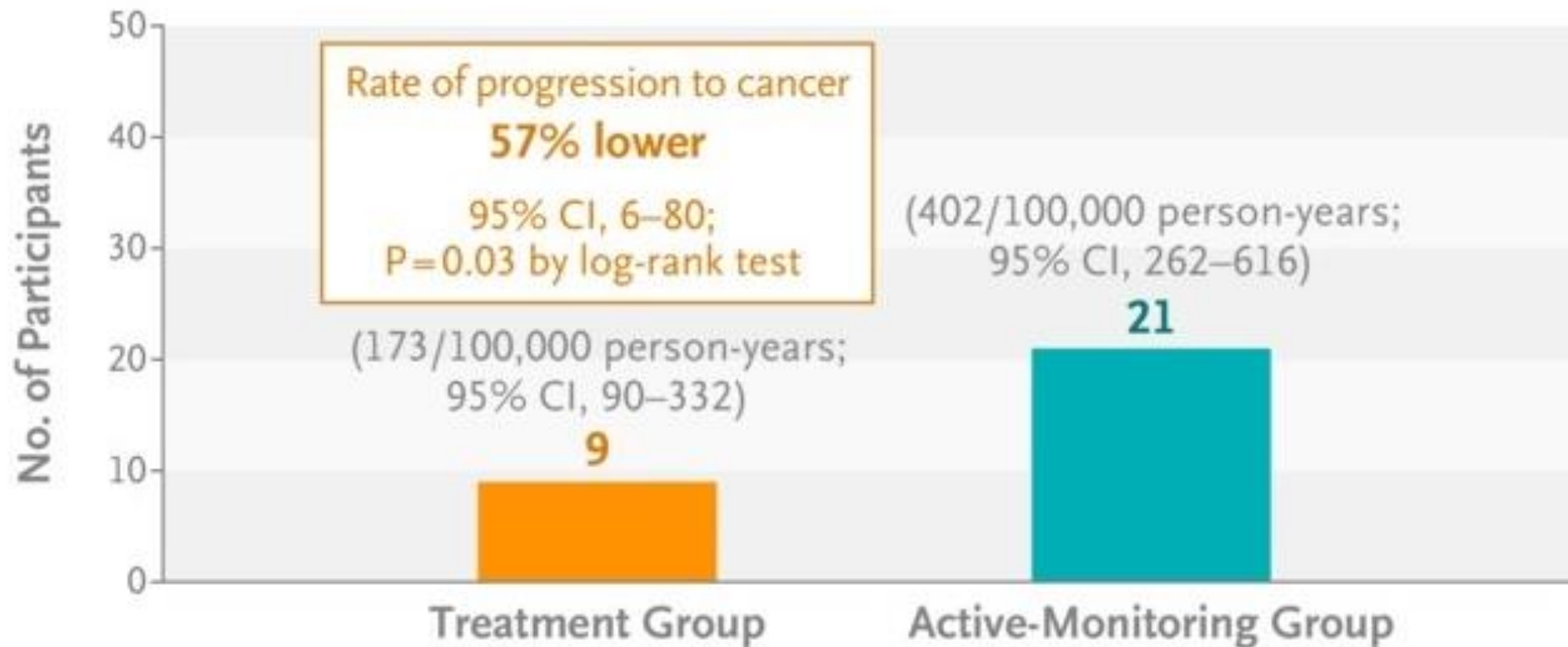
- HIV+
- >35 years
- Biopsy pos for AIN3 or p16 pos AIN2

RESEARCH SUMMARY

Treatment of Anal High-Grade Squamous Intraepithelial Lesions to Prevent Anal Cancer

Palefsky JM et al. DOI: 10.1056/NEJMoa2201048

Invasive Anal Cancer (Median Follow-up, 25.8 Mo)



Screening for Anal Cancer Is Associated With Real Harms and Questionable Benefits

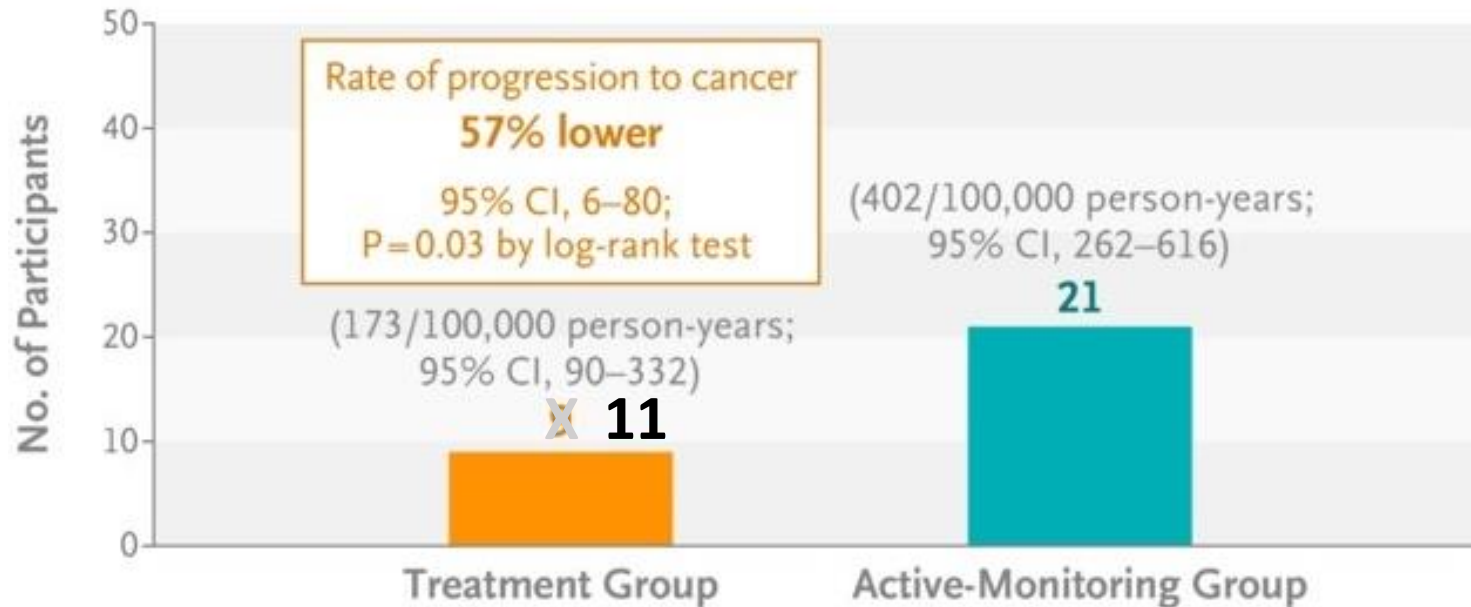
Kenyon CID 8 Nov 2025

1. Not a screening RCT
2. Protocol violation
3. Morbidity higher in R/ group
4. Natural regression of AIN
5. Poor R/ efficacy for AIN
6. HRA availability

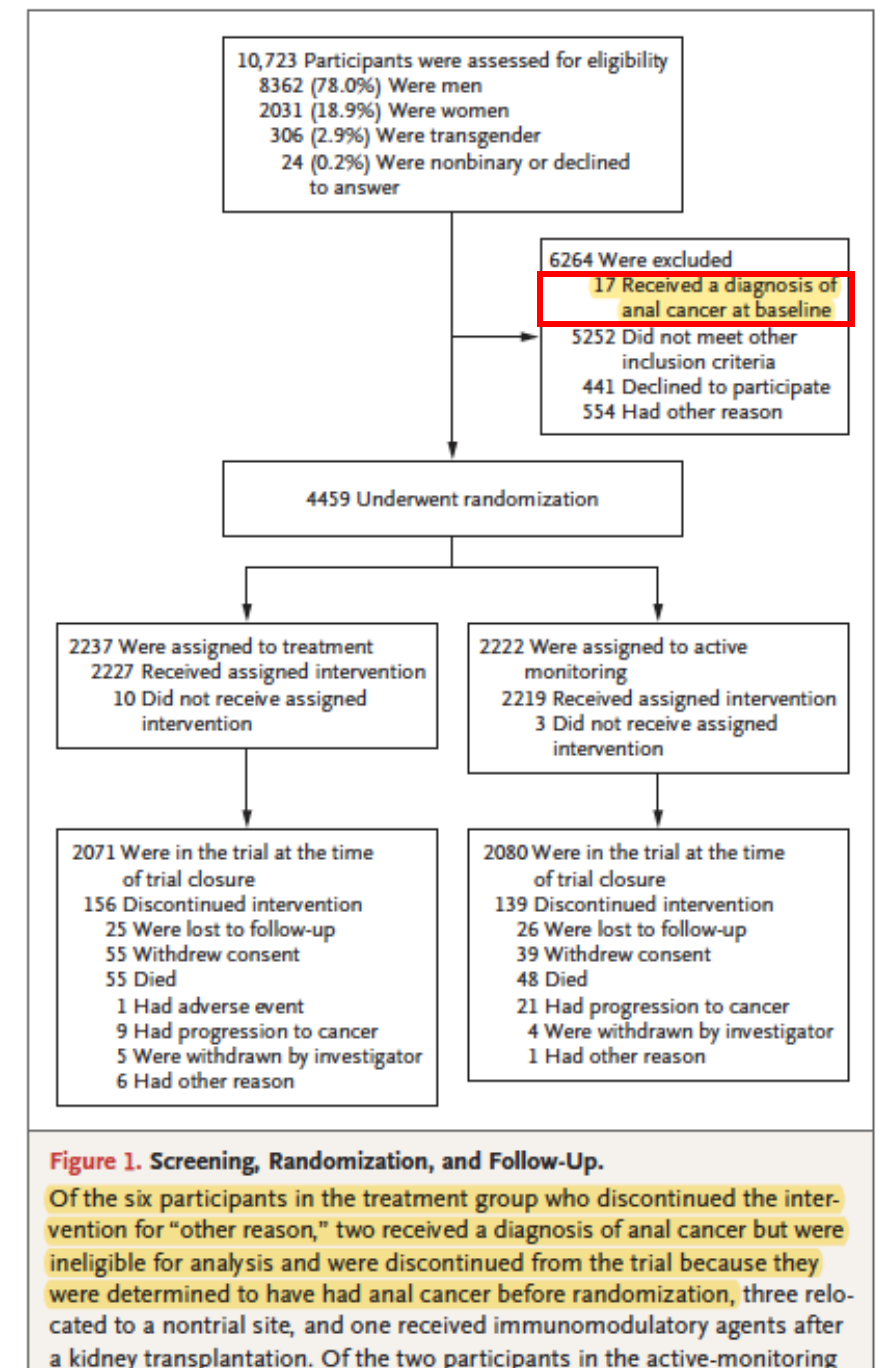


2. Protocol violation

Invasive Anal Cancer (Median Follow-up, 25.8 Mo)



~~P=0.03~~ P>0.05



3. Morbidity higher in R/ group



- Mortality
 - Treatment arm: 55
 - Passive arm: 48
- Morbidity higher in treatment arm

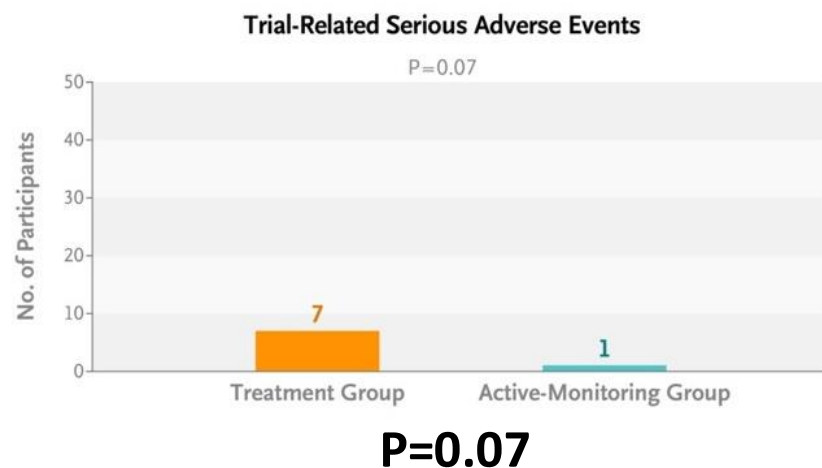


Table 2. Adverse Events.

Events	Treatment Group	Active-Monitoring Group
	number	
Adverse events	683	635
Serious adverse events*	586	568
Trial-related adverse events†	43	4
Trial-related serious adverse events‡	7	1

$P<0.001$

$P=0.07$

Treatment for AIN is painful



Randomized Trial for AIN: Imiquimod, Topical 5-FU, Electrocautery

- 148 HIV+ MSM (60% HGAIN)
- 16 wks Rx – Imiquimond 3x/wk, 5-FU 2x/wk, electrocautery monthly
- Follow-up at 6 months

	4 Week Response ITT (95% CI)		Recurrence 6 Months	Severe Pain
	Complete	Partial		
Imiquimond	26% (13-39)	13% (6-25)	21%	43%
5-FU	17% (8-30)	13% (5-25)	38%	27%
Electrocautery	41% (28-56)	7 (2-18)	17%	13%

P=.04

R/ side effects -> inability to work: 3.7 days (mean)



Table 4 Side effects by episodes of treatment

	ECA (n = 55)	Imiquimod (n = 48)	IRC (n = 7)	Surgical (n = 3)	ECA+Surgi- cal (n = 15)	ECA+Im- iquimod (n = 9)	IFR+Imiqui- mod (n = 2)	Total of side effect (n = 139)
Pain	41.8%	6.25%	0%	0%	46.7%	44.4%	0%	24.5%
Bleeding	25.4%	2%	28.6%	0%	33.3%	33.3%	0%	18%
Infection	9.1%	0%	0%	0%	6.67%	11%	0%	2.1%
Anal irritation	0%	18.7%	0%	0%	0%	33.3%	50%	11.5%
Days of inability to work	7 {0-9}	0 {0-0}	0 {0-7}	0 {0-0}	8 {0-12}	9 {0-13}	4.5 {0-9}	

Treatment of anal dysplasia in HIV-positive men
who have sex with men in a large AIDS reference
centre

1/3 to 1/2 MSM need high resolution anoscopy (HRA)

- HSIL prevalence in MSM in Australia
 - PLWH 47% (n=220)
 - HIV- 32% (n=397)
- 617 MSM recruited from the community in Sydney



High resolution anoscopy (HRA)

31% Hetero men LWH need HRA

- Prevalence of abnormal anal cytology in MSWLWH
 - Single centre cohort study Mt Sinai, NY, in 2075 PLWH screened for anal ca
 - 31% (67/218) MSWLWH - abnormal anal cytology



High resolution anoscopy (HRA)

27% of Women LWH need HRA

- Prevalence of HSIL was 27% (n=256)
 - Multicentre USA cohort study of women LWH and no prev. diagnosis of AIN
 - RF – anal sex, CD4 <200



High resolution anoscopy (HRA)

4. Do we have the HRA capacity for screening in Belgium?

	<i>N</i>	% LSIL/HSIL	HRA
HIV- MSM	148,081 [#]	32	47,386
HIV + MSM	9,498	47	4,464
HIV + non MSM	8,120	29	2,355
SOTR/Immune defic.	12,000 [@]	25	3,000
Total	165,699		57,205

SOTR - Solid Organ Transplant Recip.



**Excludes FU
HRAs**

Wilson's Criteria for introducing screening

- 8 Adequate health service provision should be made for the extra clinical workload resulting from screening

5. Natural regression of AIN

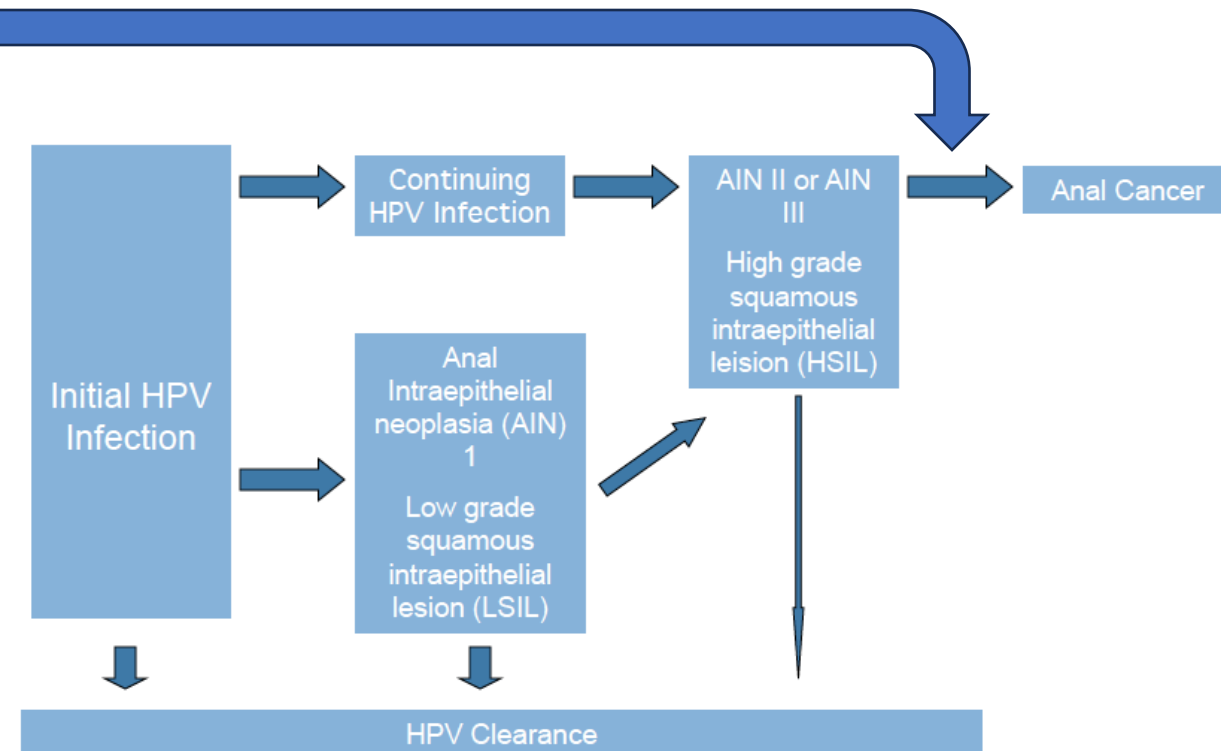
Progression of high-grade AIN/CIN to cancer/year:

Anal cancer:

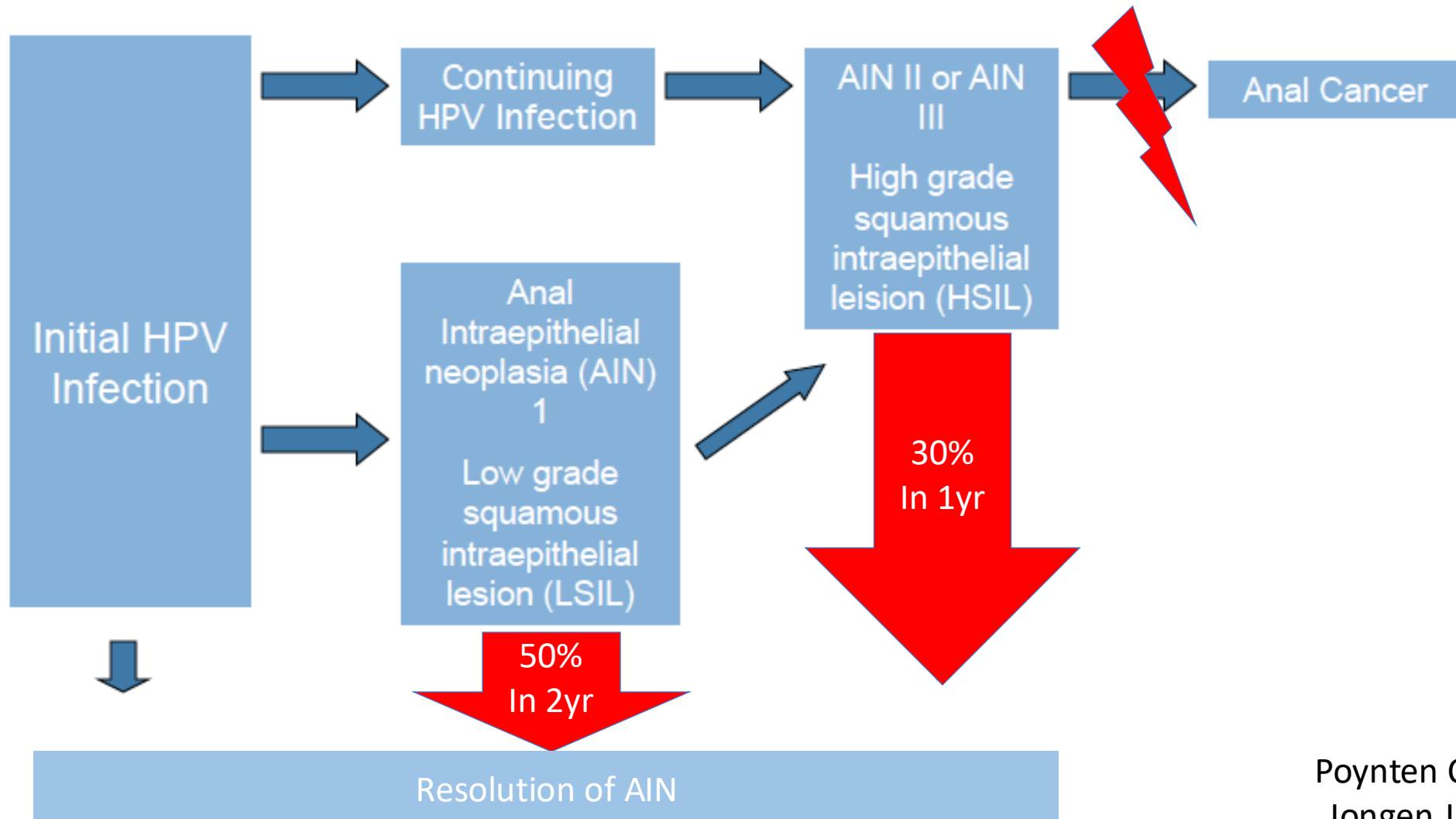
- PLWH MSM: 1 in 633
- HIV- MSM: 1 in 4196

Cervical cancer:

- CIN 3: 12 to 40 percent progress to invasive cancer

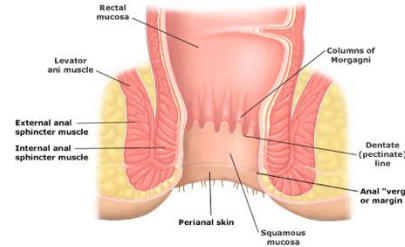


Natural history of **regression** of AIN

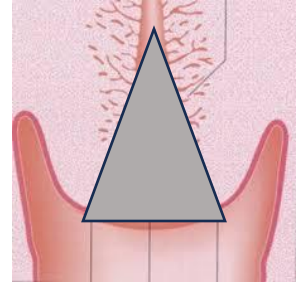


6. Low treatment efficacy of AIN vs. CIN

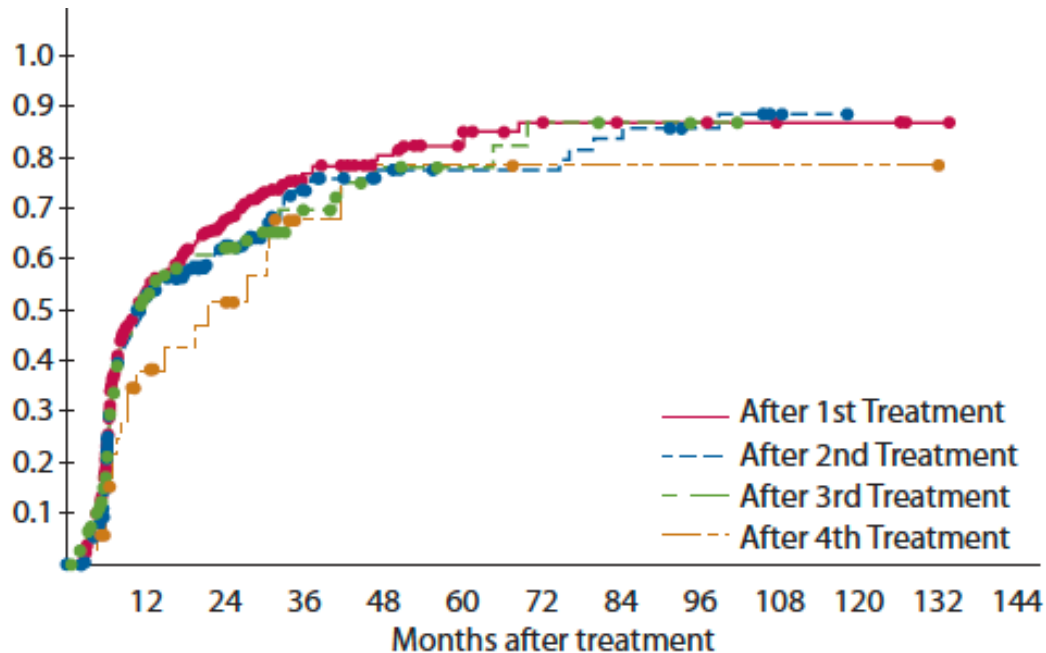
Anus/AIN



Cervix/CIN

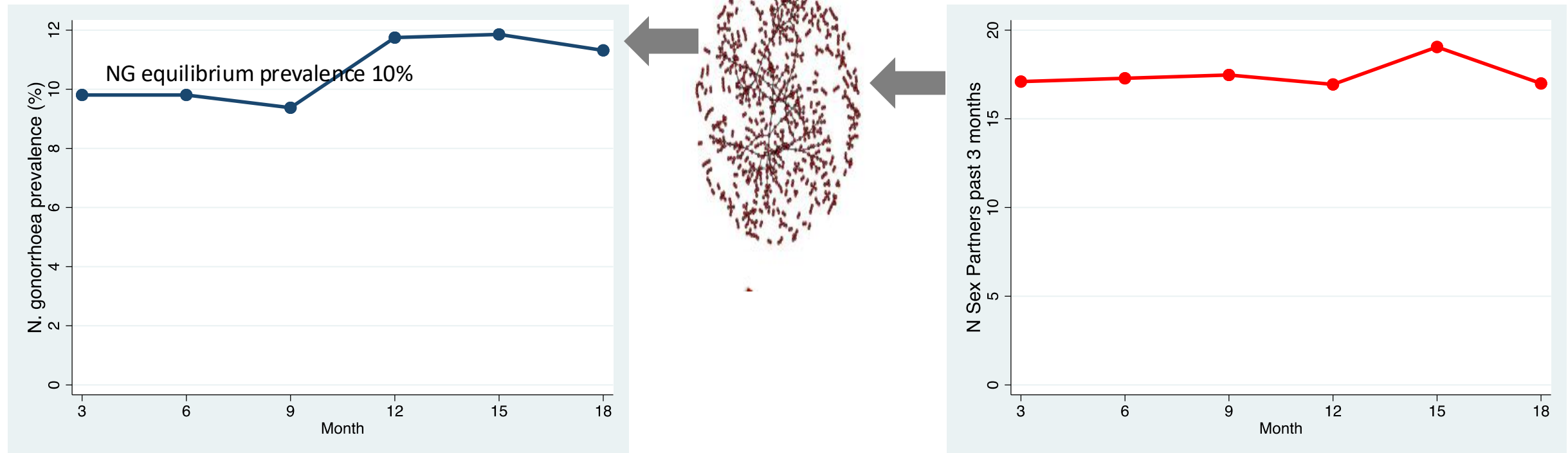


Probability of recurrence of HSIL in PLWHA

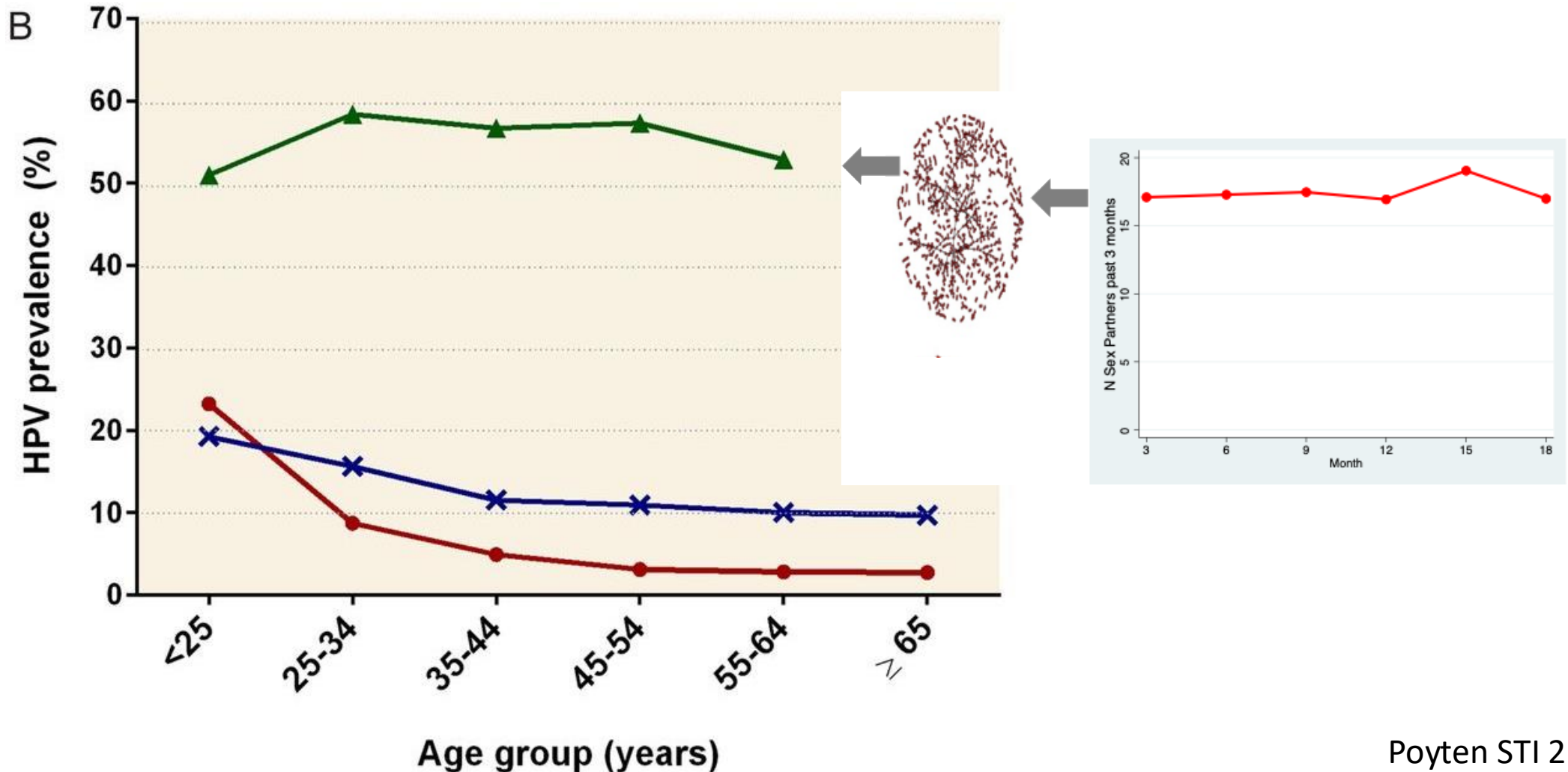


- Cohort study of CIN2/3 treated with conization
- N=804
- Mean FU 77 months
- Recurrent CIN – 1%
- Cancer - 0

Dense sex network drives high HPV/*N. gonorrhoeae* prevalence in MSM PrEP cohort



Dense sex network drives high HPV prevalence in MSM



We need an screening RCT to
show efficacy before we
advocate screening

