### Non-surgical management of anal/perianal disease

### **Barcelona HPV Course**

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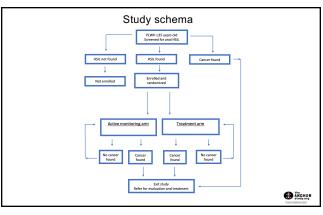
## **Disclosures**

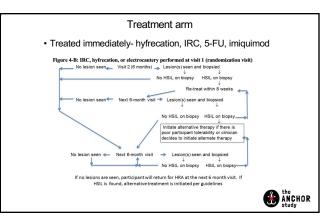
Vir Biotechnology, Virion Therapeutics, Antiva Biosciences, Roche Diagnostics -consultant Merck- advisory board member- speaker

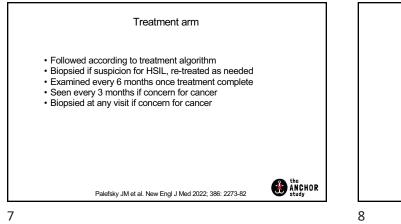
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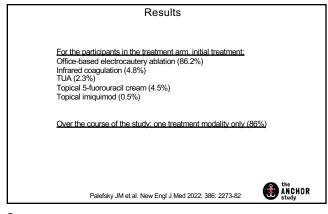




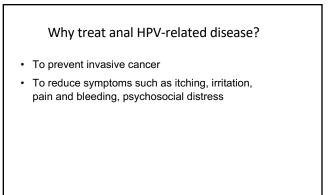




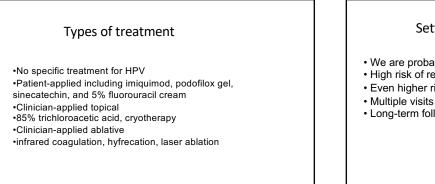




Results • Median follow-up of 25.8 months, 57% reduction in anal cancer (95% CI 6% to 80%, chi-squared = 4.74, P=.029) ANCHOR study 9



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### Setting expectations

- · We are probably not removing all of the HPV
- · High risk of recurrent disease after treatment
- Even higher risk of metachronous disease
- Long-term follow-up

### Choice of treatment

- Location internal or external
- Size of the lesion or volume of disease
- Type of lesion: Anal LSIL or HSIL
- Patient's overall health and immune function
   Patient preference and tolerance

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	Imiquimod			Fluorouracil			Electrocautery					
	mITT (n=54)	PP (n=45)	PP high-grade AIN (n=24)	PP low-grade AIN (n=21)	mITT (n=48)	PP (n=43)	PP high-grade AIN (n=28)	PP low-grade AIN (n=15)	mITT (n=46)	PP (n=36)	PP high-grade AIN (n=19)	PP low-grade AIN (n=17)
omplete response												
Aumber of participants 6 (95% CI)	13 24%	13 29%	5 21%	8 38%	8 17%	8 19%	6 21%	2 13%	18 39%	18 50%	10 53%	8 47%
	(15-37)*	(18-43)†	(9-41)	(21-59)	(8-30)*	(9-33)†	(10-40)	(2-39)	(26-54)*	(34-66)†	(32-73)	(26-69)
Partial response												
lumber of participants 6 (95% CI)	6 11% (5-23)	6 13% (6-27)	6 25% (12-45)	NA NA	6 13% (5-25)	6 14% (6-28)	6 21% (10-40)	NA NA	3 7% (2-18)	3 8% (2-23)	3 16% (5-38)	NA NA
to response												
Number of participants	26	26	13	13	29	29	16	13	15	15	6	9
6 (95% CI)	48% (35-61)	58% (43-71)	54% (35-72)	62% (41-79)	60% (46-73)	67% (52-80)	57% (39-74)	87% (61-98)	33% (21-47)	42% (27-58)	32% (15-54)	53% (31-74)
Excluded												
Number of participants	9	NA	NA	NA	5	NA	NA	NA	10	NA	NA	NA
s (95% CI)	17% (9-29)	NA	NA	NA	10% (4-23)	NA	NA	NA	22% (12-36)	NA	NA	NA
ITT-modified intention t omplete response rate wa able 2: Response rates 4	s significant	in the miTT	analysis (p= 0-027									hree groups in

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### 5% imiquimod cream

The evidence

· Therapies tested for resolution of HSIL, not cancer prevention

Often useful for treatment of external warts, particularly in immunocompetent patients
 Acts as an immune response modifier by stimulating local production of

Patients who fail on imiquimod may do well on podophyllotoxin or vice

versa

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### 5% imiquimod cream

Use for perianal HSIL has not been rigorously evaluated and if used, patients should be monitored and re-biopsied to determine efficacy
May not work well in people living with HIV with CD4 lymphocyte counts below 200 but there are few data
Some success reported in European studies

5% fluorouracil cream

- To treat anal HSIL
- To debulk disease

### 5% fluorouracil cream summary

- · Optimal dosing unclear
- · Delivery method needs to be standardized
- · Must be able to insert cream correctly
- HSIL seems to respond better than condyloma
- · High recurrence rates in some studies
- · Probably effective, safe and good option for high volume
- · Remains off-label

0.5% podofilox gel

• Useful for treatment of external warts but can cause significant irritation around the anus

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### 15% sinecatechins

- FDA approved since 2006 for treatment of external genital warts
- Botanical topical ointment purified aqueous extract of green tea leaves (camellia sinensis)
- Sinecatechin is active ingredient •
- Applied by patient 3x daily until warts clear, up to 16 weeks

### 85% trichloroacetic acid (TCA)

- Useful for small internal warts and small areas of anal LSIL or HSIL
   Small amount is put into cup
   Wooden end of cotton-tipped swab wicks up TCA

- is shaken off
  Directly applied to lesion until it turns white, avoid dripping and treatment of normal tissue
  Usually at 2-3 week intervals for up to 4 treatments

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### Cryotherapy

- Useful for small external warts and small areas of perianal LSIL or HSIL
- Small amount of liquid nitrogen put into cup (or cryoprobe or spray gun)
   Cotton end of cotton tipped swab (or wooden end for very small lesions)
- placed in LN2
- Directly applied to lesion until it freezes and turns white (around 20 • Usually 3 freeze-thaw cycles
- •TCA can be applied after freezing

### Office-based ablation

- Different ablation methods are equivalent in efficacy and recurrence/metachronous disease rates
- · Use the method with which you are most comfortable

### Retrospective analysis of electrocautery

- 91 men
- The overall response rate at 18 months was 70% per lesion .
- No serious AEs
- · Lack of resolution after first treatment was a predictor of poor response at 18 months

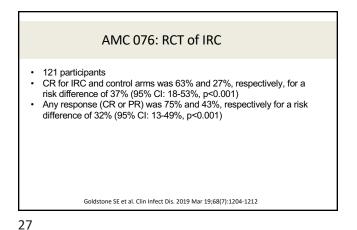
Fuertes I et al. Response factors associated with electrocautery treatment of intra-anal high-grade squamous intraepithelial lesions in a population of HIV-positive men who have sex with men. International Journal of STD & AIDS 2021Vol. 32(11) 1052–1059

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IRC and electrocautery ablation in HIV+ MSM

	Infra-red coagulation	Electrocautery*
Number of patients	68	132
Number of lesions treated	165	375
% lesions gone after 1 treatment	72%	75%
% with metachronous lesions	59%	49%
*No statistically si	gnificant differences	

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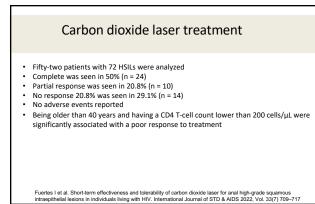
### IRC vs hyfrecation

- IRC
   More limited lesions
- On top of hemorrhoids • Anal canal No smoke evacuator

### Hyfrecation Larger lesions

- Perianal lesions
- · Good for "nooks and crannies"
- · Less fragile, cheaper, more
- Suitable anatomy of anal canal versatile
  - New smoke evacuator systems

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		Anal canal	Perianal
	Topical		
	5-fluorouracil	~	~
	Imiquimod	±	±
Lesion location	Sinecatechin	×	±
HSIL (none approved)	Podofilox gel	×	±
	Cryotherapy	±	~
	TCA	~	~
	Cidofovir	×	±
	Office ablation	~	~
	Surgical ablation/excision	~	~

		Anal canal	Perianal
	Topical		
	5-fluorouracil	±	±
	Imiquimod	±	<i>v</i>
Lesion location	Sinecatechin	×	~
Condylomata	Podofilox gel	×	<i>v</i>
	Cryotherapy	±	~
	TCA	±	±
	Cidofovir	±	±
	Office ablation	~	<b>v</b>
	Surgical ablation/excision	~	~

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		Large/multifocal	Small
	Topical		
	5-fluorouracil	~	±
	Imiquimod	±	~
	Sinecatechin	±	<ul> <li>✓</li> </ul>
Lesion size	Podofilox gel	±	<ul> <li>✓</li> </ul>
Lesion size	Cryotherapy	±	~
	TCA	×	~
	Cidofovir	±	~
	Office ablation	~	±
	Surgical ablation/excision	~	±

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### New stuff

- Therapeutic vaccines (again)
- Radiofrequency ablation
- New topical therapies

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### Conclusions

- The ANCHOR study has shown the effectiveness of treating anal HSIL to prevent invasive anal cancer
- Multiple treatment methods are often needed, sometimes simultaneous
- Careful follow-up is critical as patients tend to recur despite of the method of treatment
- Treatment for HSIL is improving but even better treatments are needed

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What kind of evidence do we need at this point to pick a treatment for anal cancer prevention?

- Now have evidence that HSIL treatment can prevent anal cancer
- Will evidence that a given treatment leads to resolution of HSIL suffice?
- Do we need placebo-controlled studies?
- Can we do placebo-controlled studies?
- · Can we simply compare one treatment to another?

Muchas gracias!

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