

Istituto di Ricovero e Cura a Carattere Scientifico

CENTRO DI RIFERIMENTO ONCOLOGICO DELLA BASILICATA Rionero in Vulture (PZ)

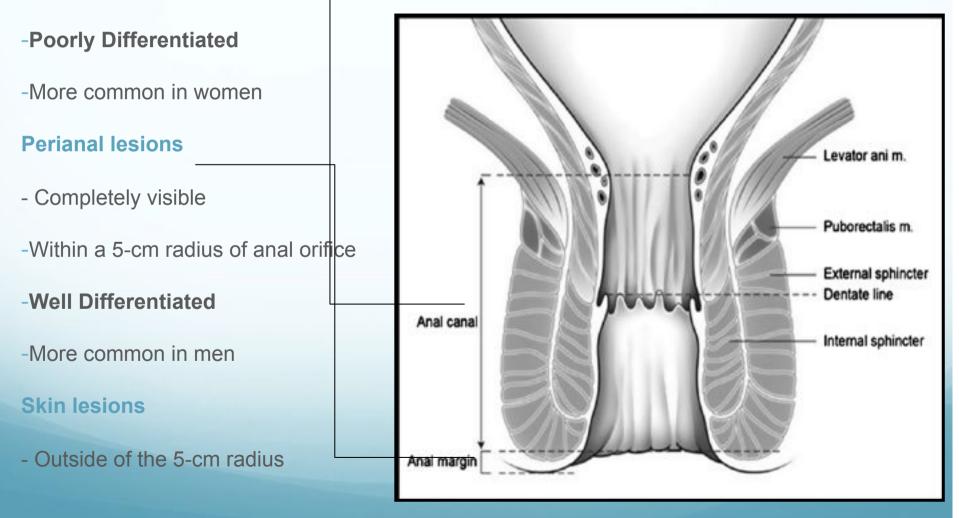
THE ROLE OF SURGERY IN ANAL CANCER



CANAL ANAL ANATOMY AND ITS DIFFERENT PATHOLOGY

Intraanal lesions

-Lesion of anal canal from rectal-anal transition area



Guidelines

Anal cancer: ESMO-ESSO-ESTRO clinical practice guidelines for diagnosis, treatment and follow-up *

Robert Glynne-Jones^a, Per J. Nilsson^b, Carlo Aschele^c, Vicky Goh^d, Didier Peiffert^e, Andrés Cervantes^f, Dirk Arnold^{g.*} Radiotherapy and Oncology 111 (2014) 330–339

TNM staging. American Joint Committee on Cancer/Union for International Cancer Control (AJCC/UICC) seventh edition TNM clinical and pathological classification of anal cancer

Primary tumour (T)			
TX	Primary tumour cannot be assessed		
то	No evidence of primary tumour		
Tis	Carcinoma in situ (i.e., Bowen disease, hij	gh-grade squamous intraepithelial lesion, and anal int	raepithelial neoplasia II-III)
T1	Tumour ≤2 cm in greatest dimension		
T2	Tumour >2 cm but ≤5 cm in greatest dim	ension	
T3	Tumour >5 cm in greatest dimension		
T4	Tumour of any size invades adjacent orga	n(s), e.g., vagina, urethra, and bladder.	
Regional lymph nodes (N)			
NX	Regional lymph nodes canno	t be assessed	
NO	No regional lymph node met	astasis	
N1	Metastases in perirectal lym	ph node(s)	
N2	Metastases in unilateral inte	rnal iliac and/or inguinal lymph node(s)	
N3	Metastases in perirectal and	inguinal lymph nodes and/or bilateral internal iliac a	nd/or inguinal lymph nodes
Distant metastasis (M)			
MO	No distant metastasis		
M1	Distant metastasis		
Anatomic stage/prognostic groups			
Stage	Т	N	M
0	Tis	NO	MO
1	T1	NO	MO
П	T2	NO	MO
	T3	NO	MO
IIIA	TI	N1	MO
	T2	N1	MO
	T3	N1	MO
	T4	NO	MO
IIIB	T4	N1	MO
	Any T	N2	MO
	Any T	N3	MO
IV	Any T	Any N	M1

FACTORS TO CONSIDER IN TREATMENT DECISION-MAKING FOR AC

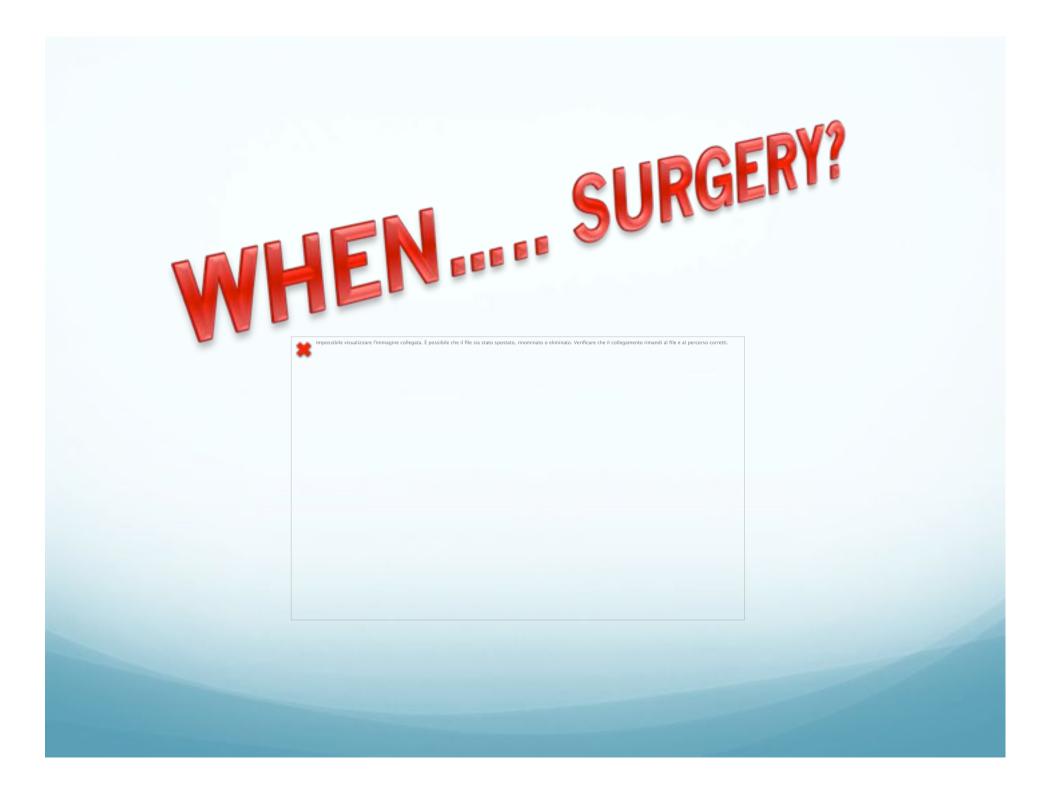
Disease-related factors	Patient-related factors	Other
Clinical and radiological TNM stage	Patient preferences	Local expertise (brachytherapy etc.)
Site of tumour (margin, canal, rectal)	Biological age/renal function/Charlson geriatric assessment	Geriatricians with interest in oncology
Extent of tumour i.e. involvement of vagina (risk of fistulation) in addition to size	Co-morbidities/current medications and performance status	
Response to treatment (early and at 26 weeks)	Socio-economic and psychological factors/social support	
Need for symptom control	Severity of initial symptoms	Specialist palliative care



STAGE AND SITE-BASED TREATMENT

Surgery (radical or local excision) ge	nerally contraindicated as primary treatment option
STAGE I	 Standard dose radiotherapy (RT), infused 5FU and mitomycin (stage group under-represented in randomised studies Iow dose RT, infused FU and mitomycin (no data from randomised studies)
STAGE II-III	- Standard dose RT, infused FU and mitomycin (evidence from multiple randomised studies)
STAGE IV	- 5-FU and cisplatin, carboplatin/taxol, or possibly irinotecan/cetuximab
Anal margin	
STAGE I, well differentiated	- Local excision (re-excision or chemoradiation if involved/close margins)
STAGE II-III	- standard dose RT, infused 5FU and mitomycin C
STAGE IV	- 5-FU and cisplatin, or carboplatin/taxol

Radiotherapy and Oncology 111 (2014) 330-339



SURGERY AS PRIMARY TREATMENT

Until the mid-1980s, radical surgery was the cornerstone of treatment. However, following publications from the 1970s on combined modality therapy, surgery as the primary therapeutic option has generally been abandoned.

STILL TODAY:

LOCAL EXCISION is recommended in:

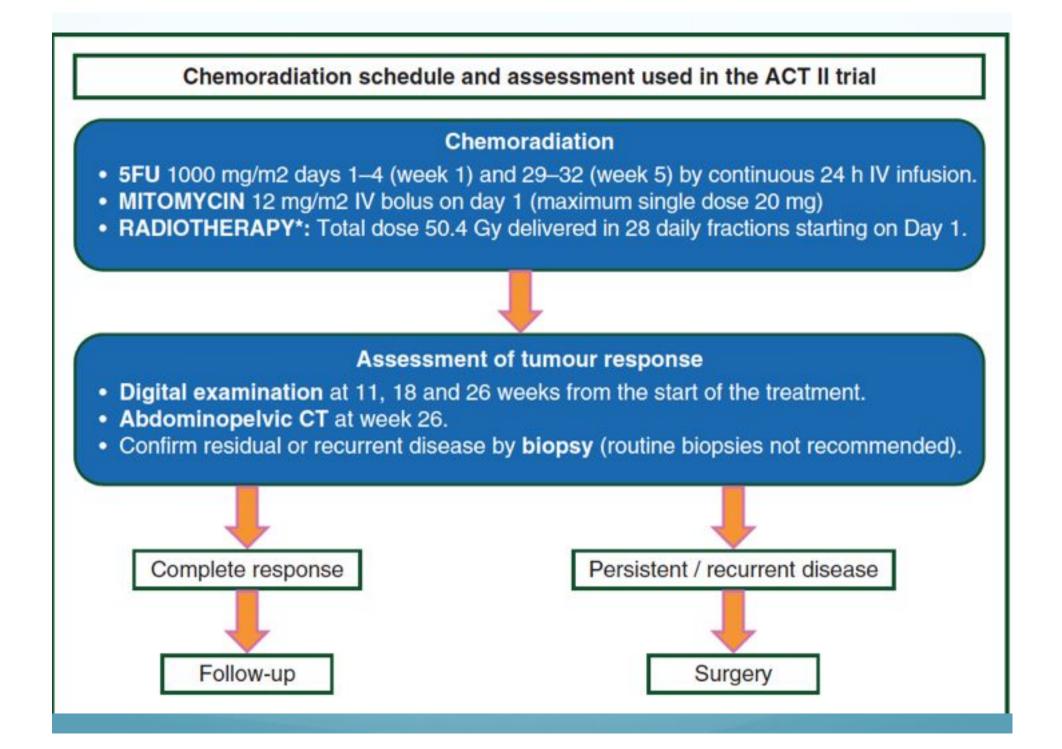
-Small lesion < 2cm -Involving anal margin

BUT controindicated:

In poorly diffentiatedIn lymphnodal involvement

AND discussed in canal anal small lesions

If inadeguate surgical margins (<5mm), it needs a new local excision

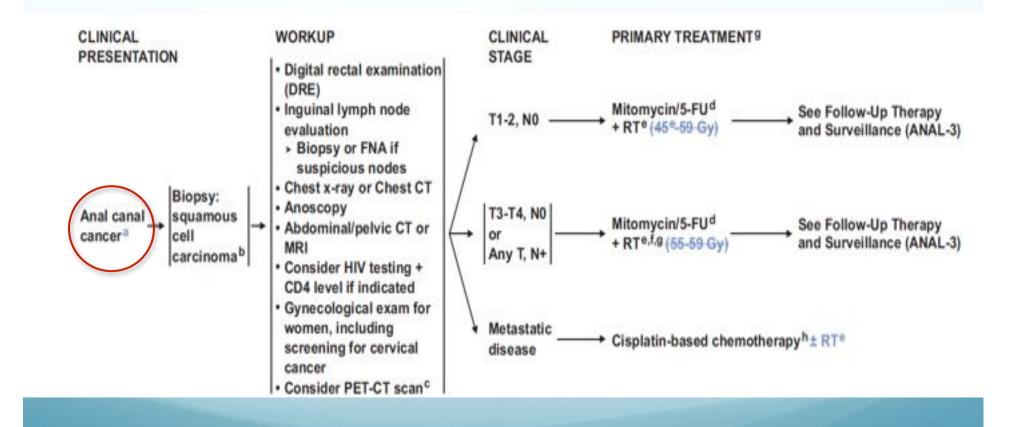


NCCN NCCN NCCN Network®

JNCCN

JNCCN.org

Journal of the National Comprehensive Cancer Network

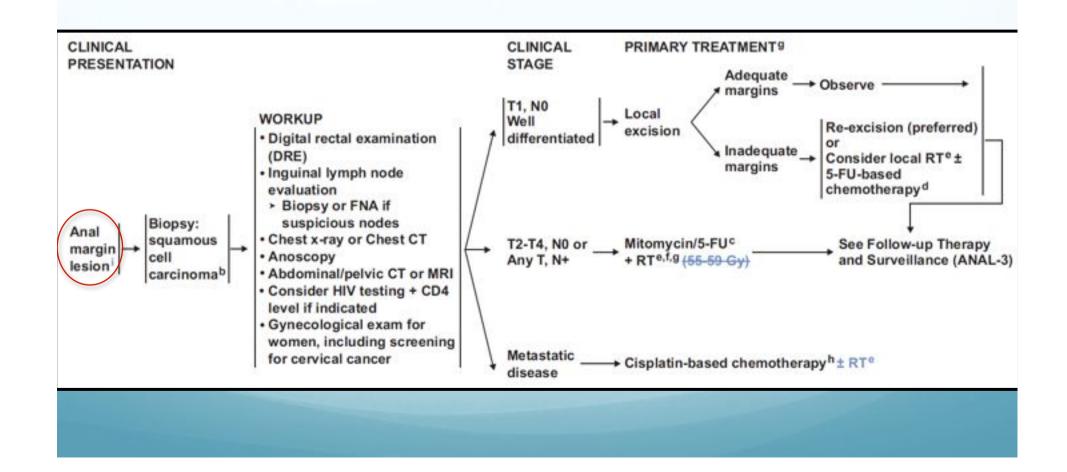


NCCN NCCN NCCN Network®



JNCCN.org

Journal of the National Comprehensive Cancer Network

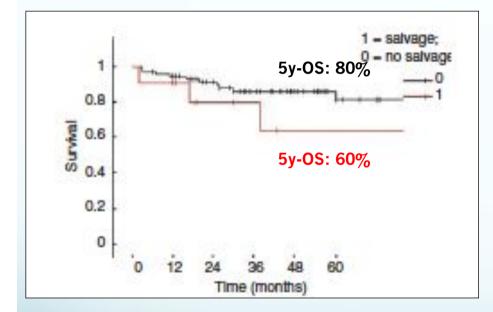


Outcome of salvage surgery for anal squamous cell carcinoma

D. A. Harris*, J. Williamson*, M. Davies*, M. D. Evans*, P. Drew† and J. Beynon* on behalf of the Swansea Pelvic Oncology Group

2013, Association of colonproctology of Great Britain



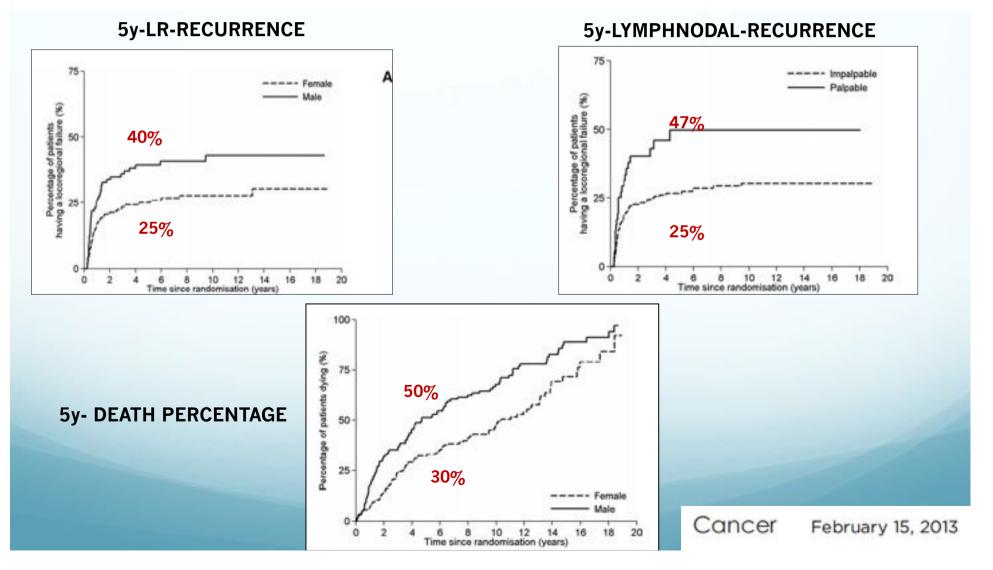


OS of persistent/recurrent desease treated with only ChRt or plus Salvage Surgery

Prognostic Factors for Recurrence and Survival in Anal Cancer

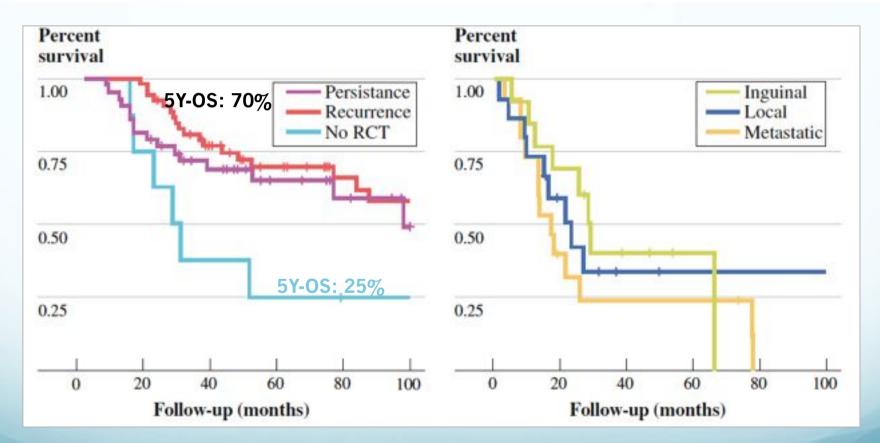
Generating Hypotheses From the Mature Outcomes of the First United Kingdom Coordinating Committee on Cancer Research Anal Cancer Trial (ACT I)

Robert Glynne-Jones, MD, FRCR¹; David Sebag-Montefiore, MD, FRCR²; Richard Adams, MD, FRCR³; Simon Gollins, MD, FRCR⁴; Mark Harrison, MD, FRCR¹; Helen M. Meadows, MSc⁵; Mark Jitlal, MSc⁵; for the United Kingdom Coordinating Committee on Cancer Research Anal Cancer Trial Working Party



Ann Surg Oncol (2012) 19:4186–4192 Abdominoperineal Resection for Squamous Cell Anal Carcinoma: Survival and Risk Factors for Recurrence

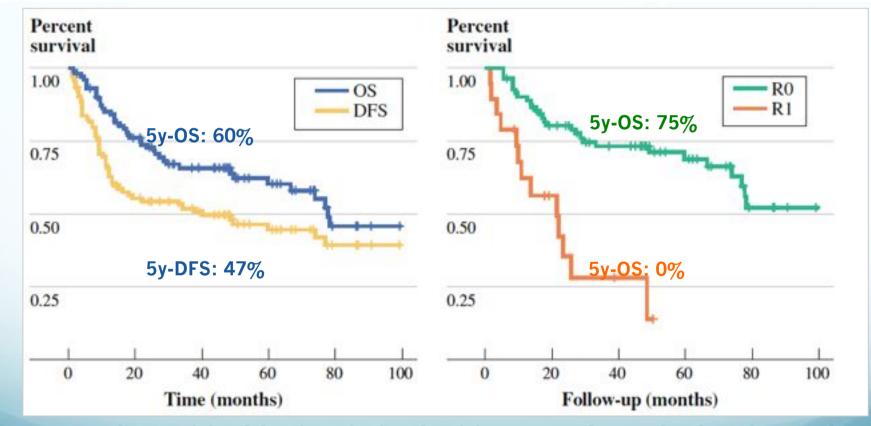
Jérémie H. Lefèvre, MD¹, Hélène Corte, MD¹, Emmanuel Tiret, MD¹, David Boccara, MD², Marc Chaouat, MD², Emmanuel Touboul, MD³, Magali Svrcek, MD, PhD⁴, Magalie Lefrancois, MD¹, Conor Shields, MD¹, and Yann Parc, MD, PhD¹



- RECURRENCES: 40%
- SIDE OF RECURRENCES DIDN' T INFLUENCE OS
- SURVIVAL BENEFIT FROM CHRT

Abdominoperineal Resection for Squamous Cell Anal Carcinoma: Survival and Risk Factors for Recurrence

Jérémie H. Lefèvre, MD¹, Hélène Corte, MD¹, Emmanuel Tiret, MD¹, David Boccara, MD², Marc Chaouat, MD², Emmanuel Touboul, MD³, Magali Svrcek, MD, PhD⁴, Magalie Lefrancois, MD¹, Conor Shields, MD¹, and Yann Parc, MD, PhD¹

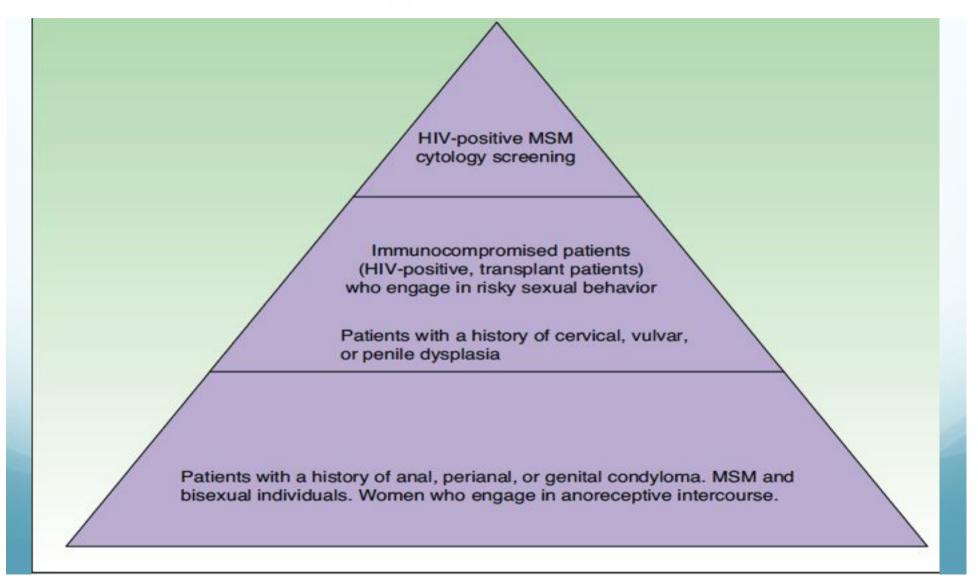


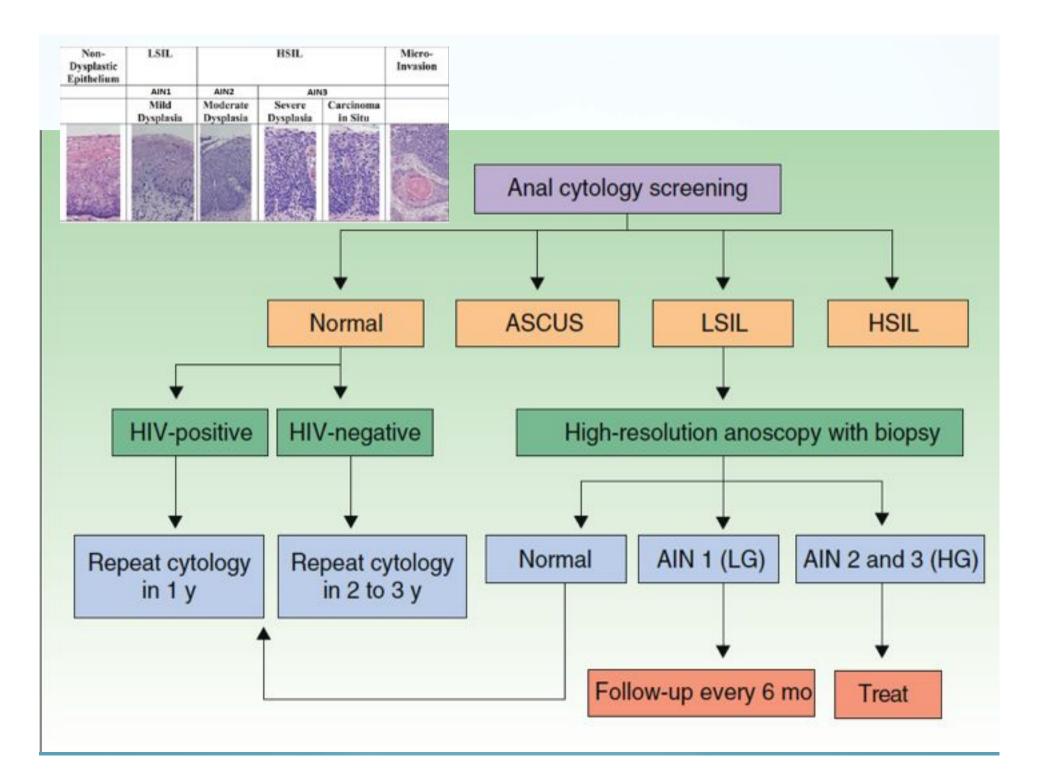
THE MAJOR PROGNOSTIC FACTOR OF OS, AFTER SALVAGE SURGERY, IS THE POSITIVITY OF SURGICAL MARGINS THE NEED OF AN EXTENSIVE SURGERY

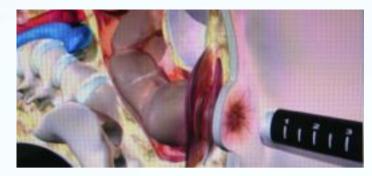
REVIEW

Early Detection of Anal Intraepithelial Neoplasia in High-Risk Patients[☆]

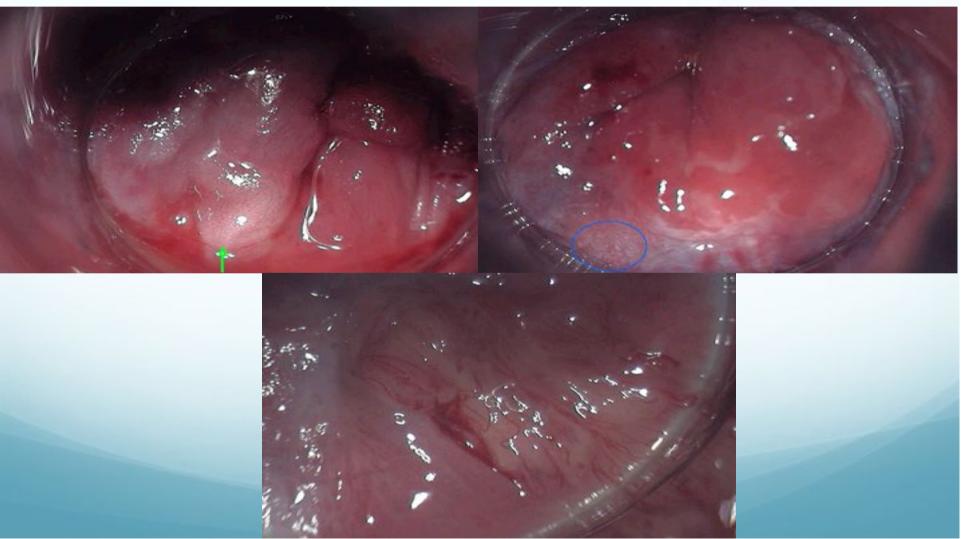
E. Sendagorta,^{a,*} P. Herranz,^a H. Guadalajara,^c F.X. Zamora^b







DIGITAL VIDEOPROCTOSCOPY



Will local ablation of high grade anal intraepithelial neoplasia prevent invasive anal cancer?



Alessia Dalla Pria and Mark Bower

AIDS 2013, 27:1185-1186

Yes, treatment causes regression of AIN. However whether this prevents the evolution of invasive cancer remains uncertain. In one study of anal cancer in people living with HIV, seven of 74 patients had been enrolled on

29% [11]. It is also important to note that the rates of AIN2/3 were higher in women (7%) than in MSM (5%) and heterosexual men (1%). Both these findings have important relevance to screening programs and health economic studies of these projects.

- A GOOD PROGRAM OF SCREENING IS NECESSARY TO PREVENT PRE-CANCEROUS LESIONS
- BUT THE TREATMENT OF THESE LESIONS REMAINS DEBATED FOR THE PREVENTION OF ANAL CANCER

CONCLUSIONS

• AC NEEDS A MULTIDISCIPLINARY TEAM AND TREATMENT

• THE SURGEON, IN LOCALLY ADVANCED AC , FOLLOWS THE ONCOLOGIST/RADIOTERAPIST IN PERSISTENT/RECURRENT DESESASE

• IN EARLY STAGES, EXSPECIALLY IN ANAL MARGIN CANCER, SURGERY IS ESSENTIAL

• A PATHOLOGICAL SCORE COULD BE HELPFUL TO DISCRIMINATE A SUBGROUP OF PATIENTS AT HIGH RISK OF RECURRENCE OR PERSISTENT DESEASE

HYMMUNODEFICIENT PATIENTS REQUIRE A STRONG SCREENING PROGRAM

• DIGITAL PROCTOSCOPY COULD BE PROMISING FOR AN EARLY DIAGNOSIS OF AC IN HIGH RISK PATIENTS