



# IX Congresso Internacional de Uro-Oncologia

IV SIMPÓSIO MULTIPROFISSIONAL DE URO-ONCOLOGIA

1 a 3 de Março de 2018

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## PÓS ASCO GU 2018

### Testicular Câncer

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**PÓS ASCO GU 2018**  
**Testicular Cancer**  
**ANA PAULA GARCIA CARDOSO**  
**MD, HOSPITAL ISRAELITA ALBERT EINSTEIN**

1- Keynote Letter: Manejo de Câncer de Testículo estadio II (A) com marcador tumoral negativo

2- General Session: Manejo de massas residuais pós quimioterapia

❖ **Abstract 546- Serum miRNA to predict post-chemotherapy viable disease in testicular non-seminomatous germ cell tumor patients.**

3- Rapid-Fire Abstract Session:

❖ **Abstract 550- Sentinel node biopsy in clinical stage I testicular cancer;**

❖ **Abstract 549- Long-term sexual functioning in germ-cell tumor survivors;**

❖ Abstract 551- Impact of medicaid expansion on diagnosis and management of patients with testicular cancer

4- Poster:

❖ Abstract 548- Collateral damage: Molecular aging and p16INK4a senescence protein in testicular cancer survivors treated with chemotherapy.

❖ Abstract 564- Effect of number of computed tomography (CT) scans during follow-up (FUP) of patients with clinical stage I (CSI) seminoma: A trial-level meta-analysis.

❖ Abstract 556 -Diagnostic radiation and testicular germ cell tumor risk.

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# Serum miRNA to predict post-chemotherapy viable disease in testicular nonseminomatous germ cell tumor patients

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PIs: Robert J Hamilton MD MPH and Leendert Looijenga PhD

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# Background

- **Post Chemotherapy Retroperitoneal Lymph Node Dissection (pcRPLND)** is part of multimodal treatment for patients with advanced nonseminoma testicular germ cell tumors
- Currently indicated in patients with **normalized** or **plateaued** serum tumor markers with residual disease (> 1 cm)
- **Rationale** to remove residual masses:
  - Teratoma (40-45%),
  - Viable chemorefractory germ cell tumor elements (10-15%)

Steyerberg EW. Prediction of residual retroperitoneal mass histology after chemotherapy for metastatic nonseminomatous germ cell tumor: multivariate analysis of individual patient data from six study groups. J Clin Oncol. 1995 May; 13(5):1177-87

Fosså SD. Histology of tumor residuals following chemotherapy in patients with advanced nonseminomatous testicular cancer. J Urol. 1989 Nov;142(5):1239-42

Carver BS, Serio AM, Bajorin D, et al. Improved clinical outcome in recent years for men with metastatic nonseminomatous germ cell tumors. J Clin Oncol 2007;25:5603-5608.

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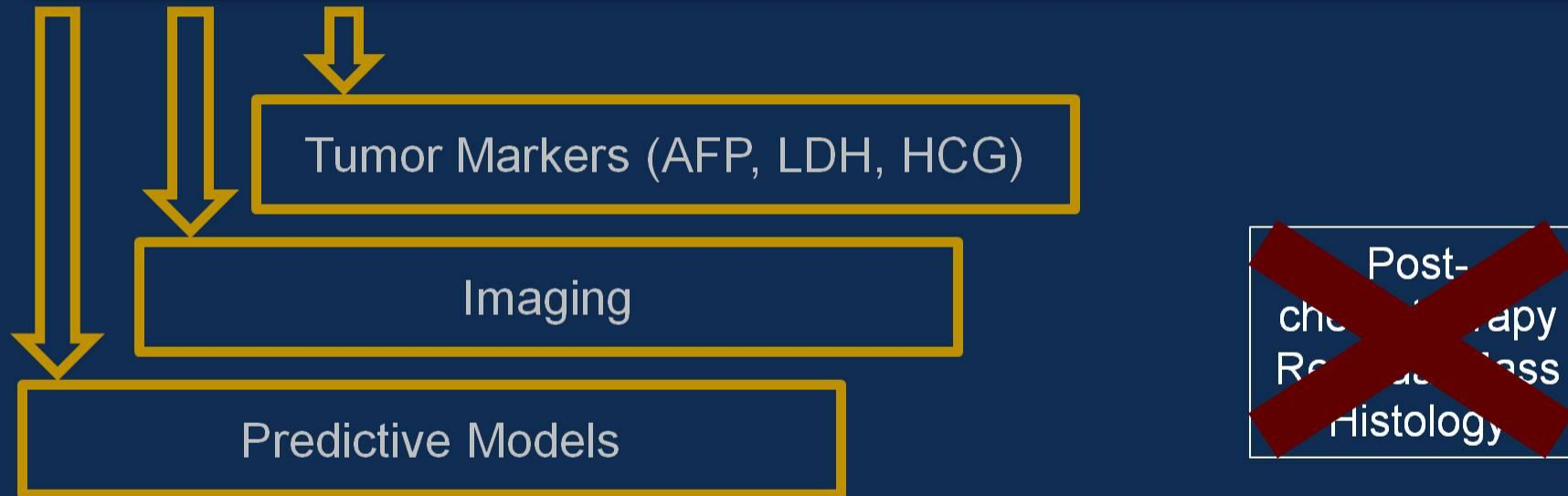
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# The problem...

Approximately 50% of patients are submitted to unnecessary surgery



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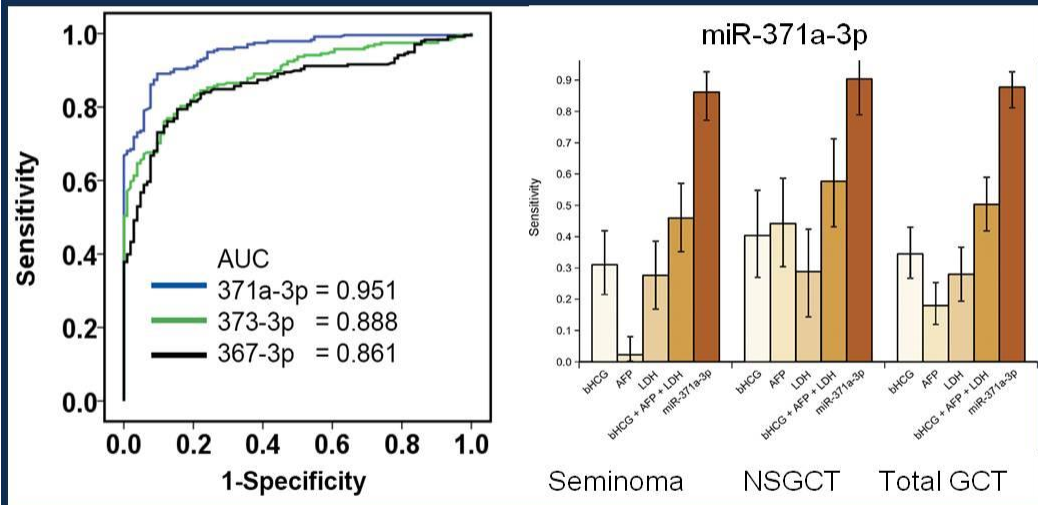
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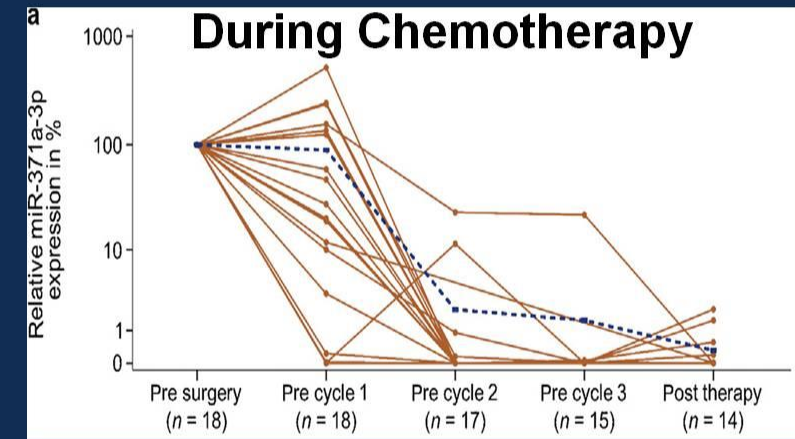


# miRNAs in Testicular Cancer

## Diagnostic Properties



## Prognostic Properties



Van Agthoven and Looijenga. Accurate primary germ cell cancer diagnosis using serum based miRNA detection (ampTSMiR test). *Oncotarget*. 2017 July 27; 8 (35):58037-58049  
 Dieckmann KP et al. Serum levels of MicroRNA miR-371a-3p: A sensitive and Specific New Biomarker for Germ Cell Tumours. *Eur Urol*. 2017 Feb;71 (2):213-220

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# Hypothesis

*Serum miRNAs are predictive markers for viable disease post-chemotherapy*

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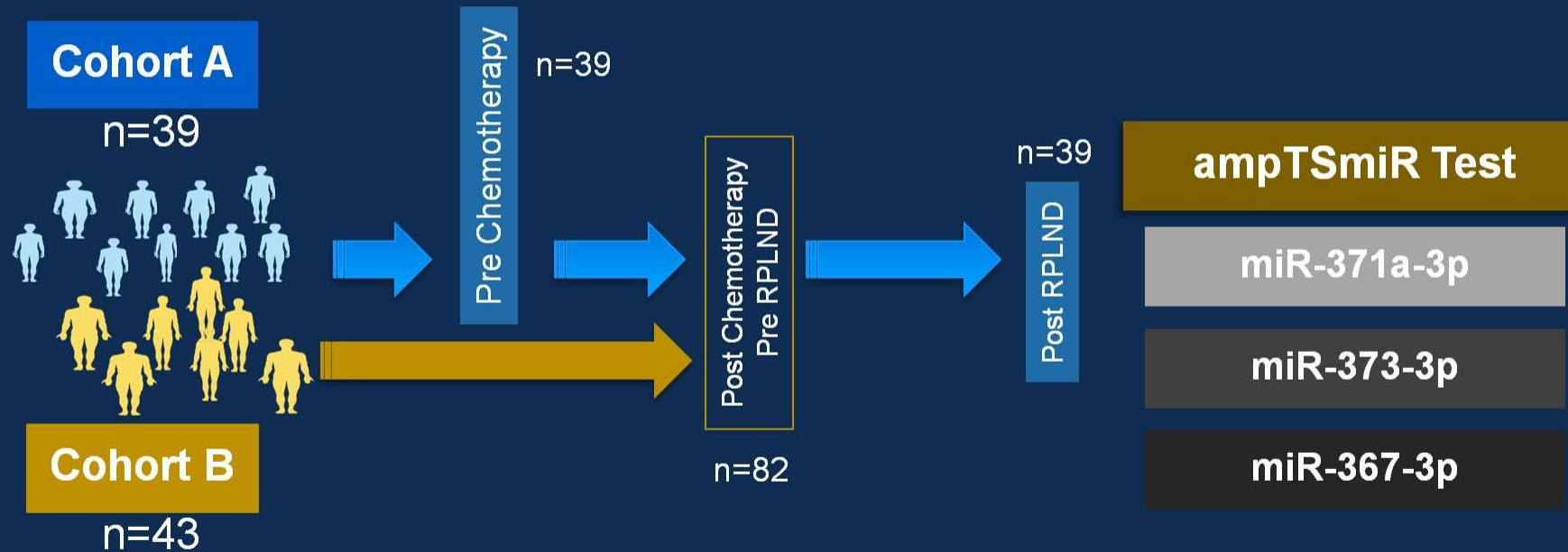
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# Patients and Methods

NSGCT patients submitted to orchiectomy, chemotherapy and pcRPLND



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# Patients and Methods

## Post Chemotherapy Lesion Histology

### Cohort A and B



n=82



**Necrosis/Fibrosis**

36 (43.9%)

Teratoma

34 (41.5%)

**Viable GCT**

12 (14.6%)

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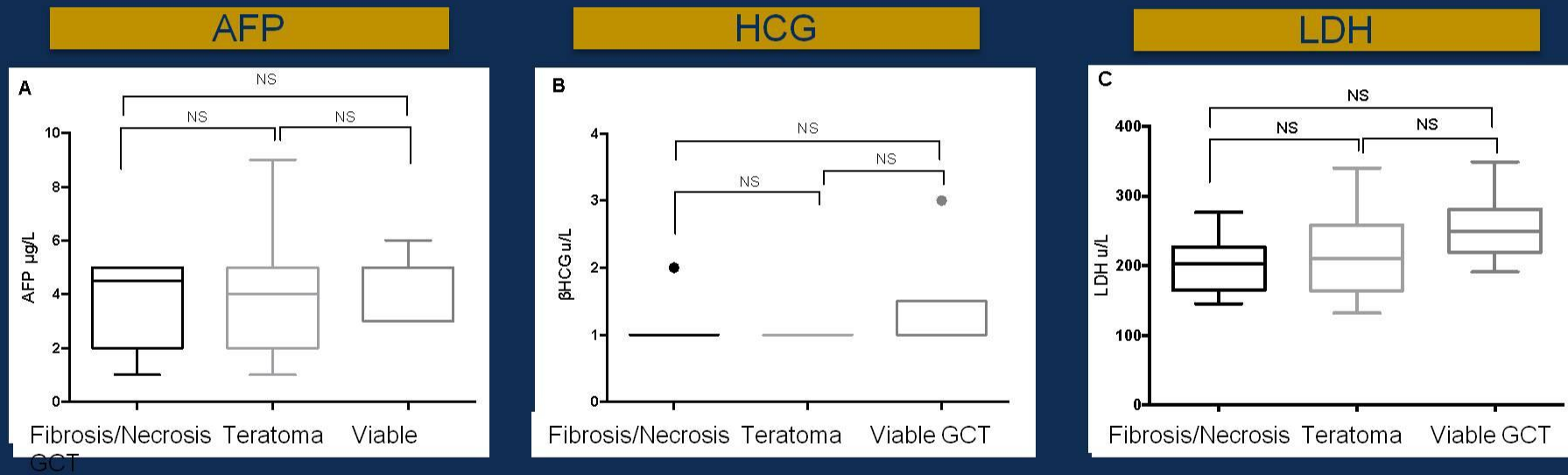
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# Results

Classical tumor markers do not predict post-chemotherapy residual masses histology



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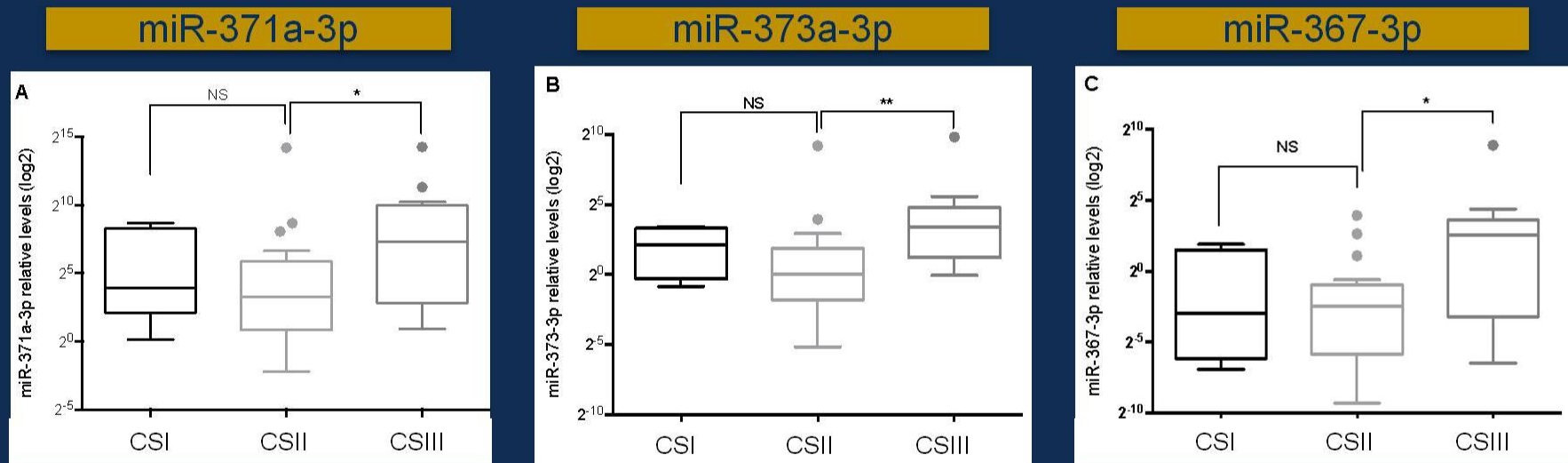
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# Results

Pre-chemotherapy serum miRNA levels are associated with clinical stage



(Cohort A. n=39. A. \*,  $p=0.046$ ; B. \*\*,  $p=0.003$ ; C. \*,  $p=0.038$ )

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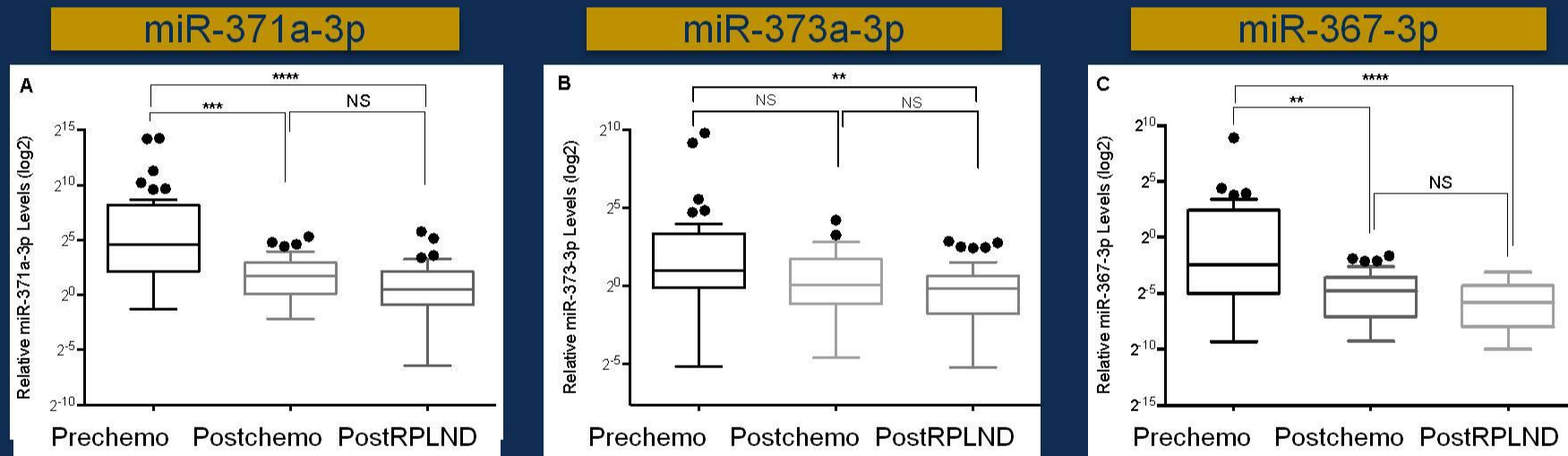
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# Results

Serum miRNA levels are associated with treatment response



(Cohort A. n=39. A. miR-371, \*\*\*\*,  $p < 0.0001$ , \*\*\*,  $p = 0.0006$ ; B. miR-373, \*\*,  $p = 0.0025$ ; C. miR-367, \*\*\*\*,  $p < 0.0001$ , \*\*,  $p = 0.005$ ).

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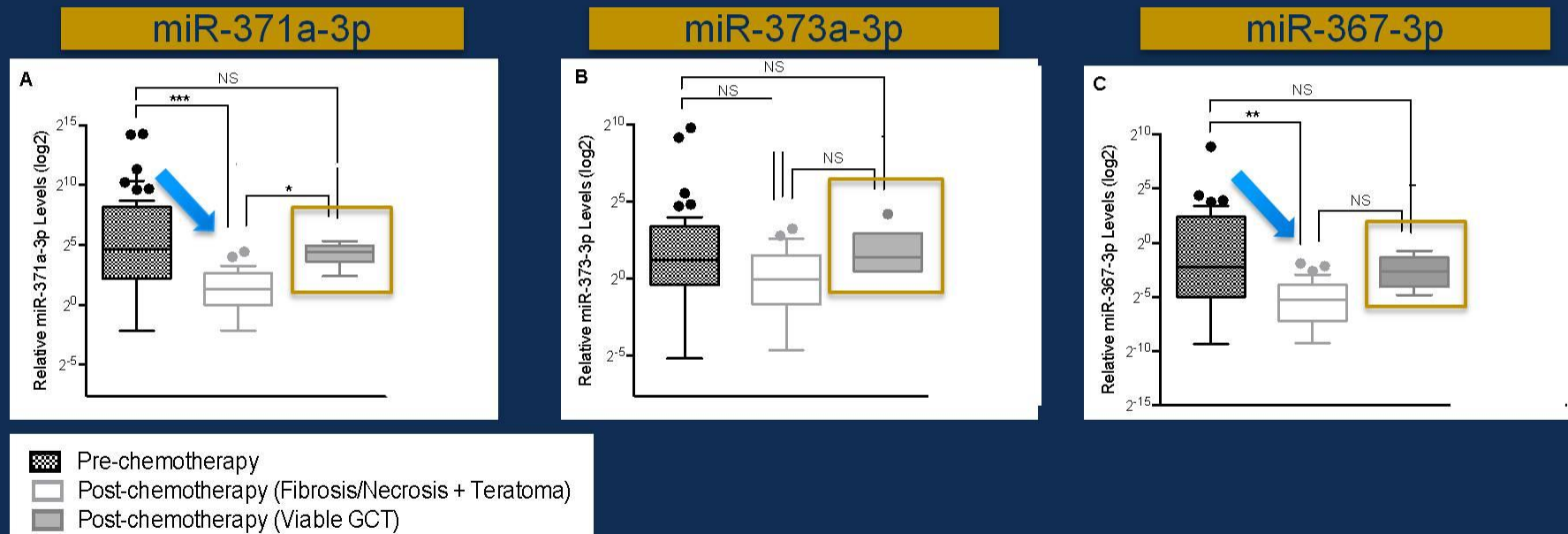
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# Results

Serum miRNA levels are higher in the presence of viable GCT post-chemotherapy



(Cohort A. n=39. A.  $***, p=0.0002$ ,  $**$ ,  $p=0.004$ ; B.  $*$ ,  $p=0.037$ ; C.  $**$ ,  $p=0.011$ ,  $*$ ,  $p=0.024$ )

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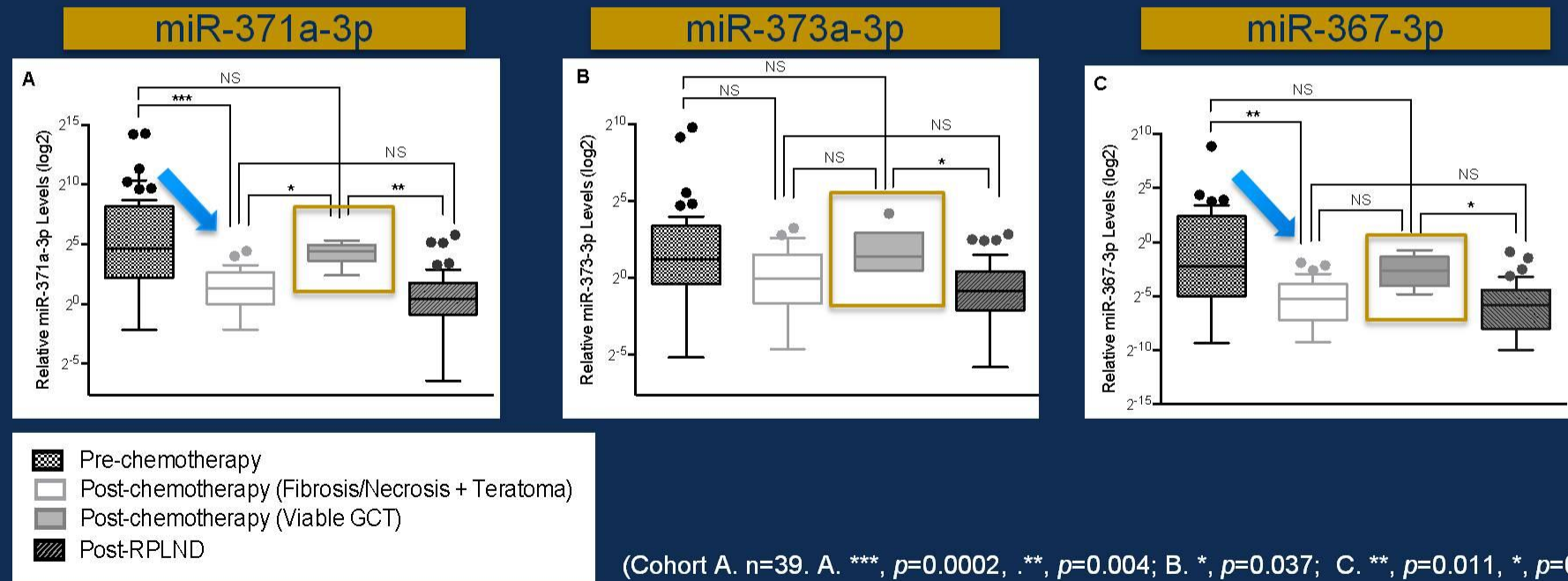
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# Results

Serum miRNA levels are higher in the presence of viable GCT post-chemotherapy



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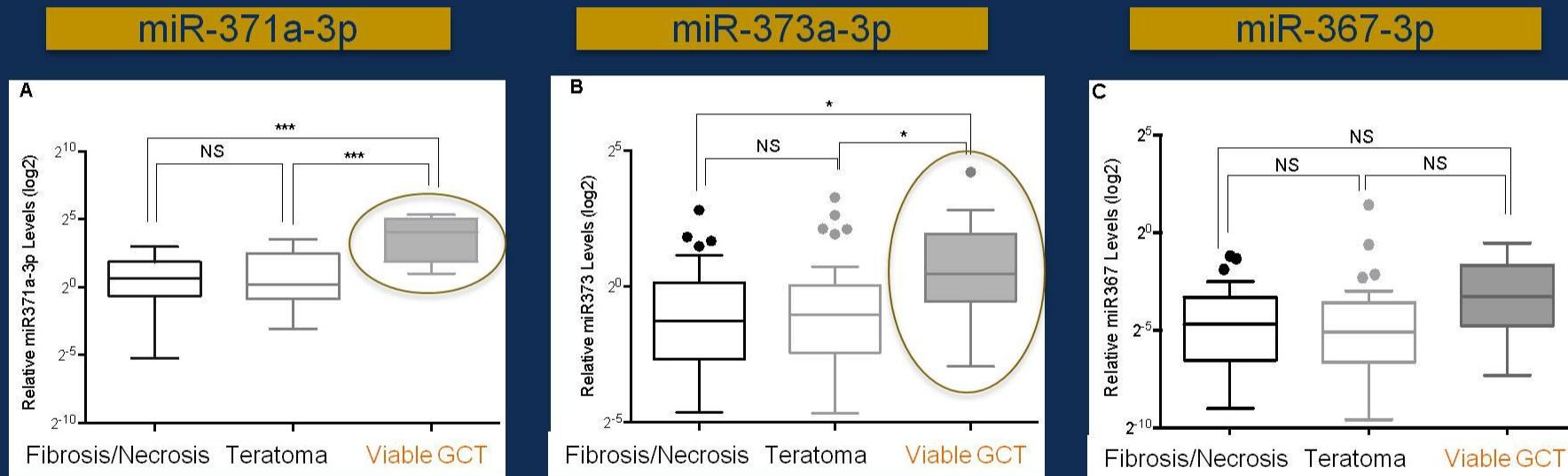
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# Results

Serum miRNA levels are higher in the presence of viable GCT post-chemotherapy



(Cohort A. n=82. A. \*\*\*,  $p=0.002$ ; B. \*,  $p=0.032$ )

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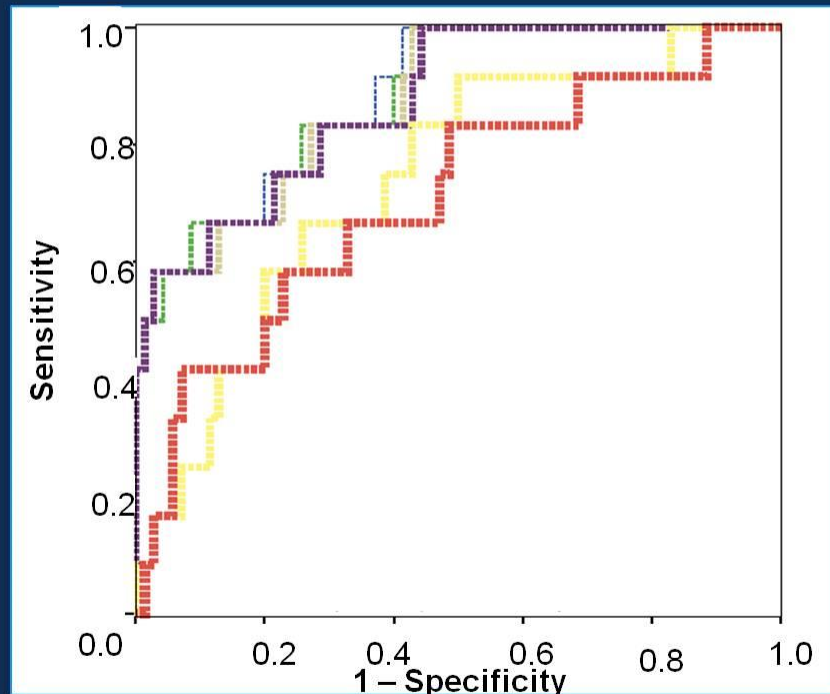
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# Results

Serum miRNA accurately predict presence of viable GCT post-chemotherapy



Viable GCT vs. Fibrosis/Necrosis + Teratoma  
(n=82, post-chemotherapy)

- miR-371a-3p/miR-373-3p (AUC 0.885; 95% CI 0.79-0.98)
- miR-371a-3p/miR-373-3p/miR-367 (AUC 0.880; 95% CI 0.79-0.99)
- miR-371a-3p (AUC 0.874; 95% CI 0.77-0.97)
- miR-371a-3p/miR-367 (AUC 0.873; 95% CI 0.78-0.98)
- miR-373-3p (AUC 0.738; 95% CI 0.59-0.88)
- miR-367 (AUC 0.707; 95% CI 0.54-0.87)

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# Results

Serum miR-371a-3p levels post-chemotherapy might support treatment decision in patients with residual retroperitoneal masses  $\leq 3$  cm

Residual  
Retroperitoneal  
Masses  $\leq 3$  cm



miR-371a-3p Levels	Teratoma (n = 13)	Necrosis & Fibrosis (n = 20)
Negative (n=18)	0	10
Positive (n=21)	6	10

**Viable GCT (n = 6)**

miR-371a-3p cut-off level 2.0 (Sensitivity 100%, Specificity 54%; NPV 100%,  $p=0.02$ )

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# Conclusions/Take-Home Points

- Serum miRNA are associated with *clinical stage and treatment response*
- miR-371a-3p, as a *single serum marker*, accurately *predicts viable disease post-chemotherapy*
- In a sub-group of patients with retroperitoneal lesions measuring  $\leq 3$  cm, *miR-371a-3p profile might support treatment decision*
- *Promising* but *future studies are needed* to confirm our findings

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# Limitations

- *Small cohort* of patients
- *Heterogeneous* population
- *Inability to distinguish teratoma* from necrosis & fibrosis
- Difficult to establish *correlation* with other studies using serum miRNAs (different assays and different population of testicular cancer patients)
- *Multi-institutional studies* with *standard miRNA quantification* assays are *needed* to establish miRNAs as clinical biomarkers

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# Sentinel Node Biopsy in Clinical Stage I Testicular Cancer

Joost Blok, MD

Physician-researcher / PhD Candidate

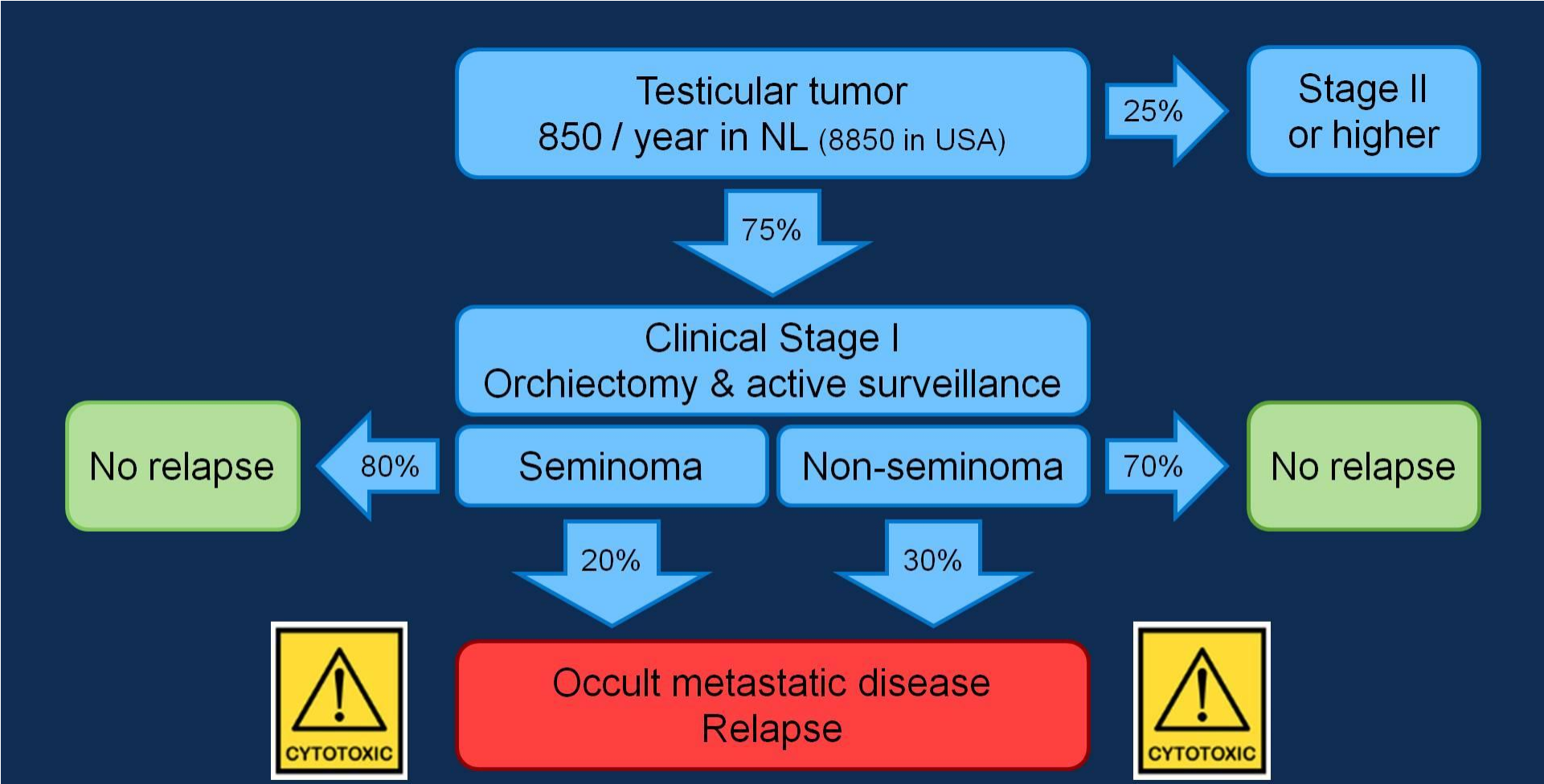


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# Sentinel Lymph Node Biopsy

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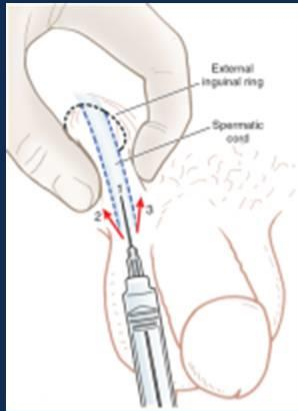
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1.  
**Funicular block**



2.  
**Intratesticular injection  
radiopharmaceutical**



3.  
**Lymphoscintigraphy  
SPECT/CT**



4.  
**Laparoscopic resection SN**



**Gamma probe**

5.  
**Radical orchiectomy**

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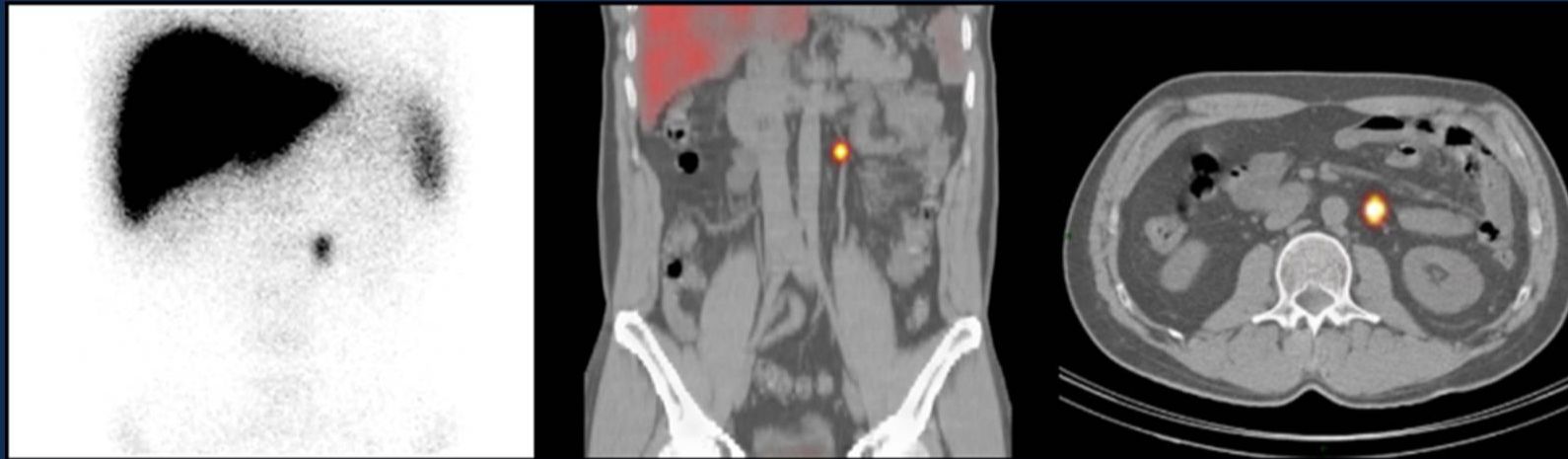
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# Lymphoscintigraphy & SPECT/CT



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# Results

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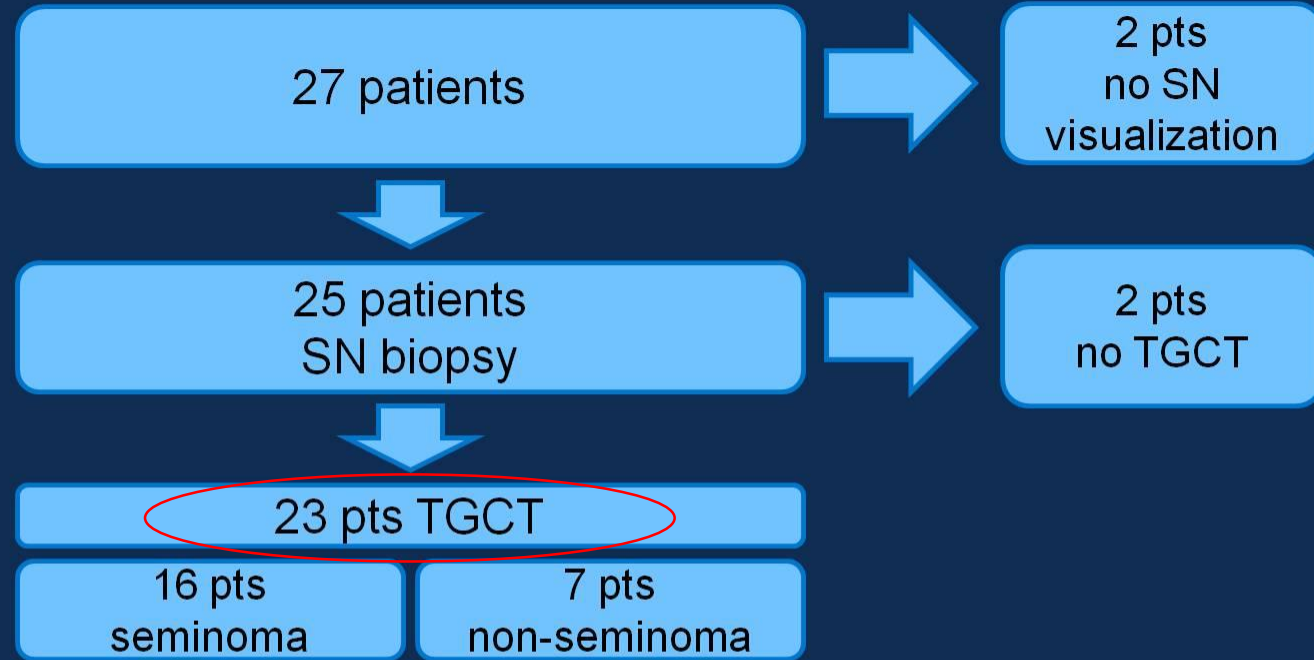
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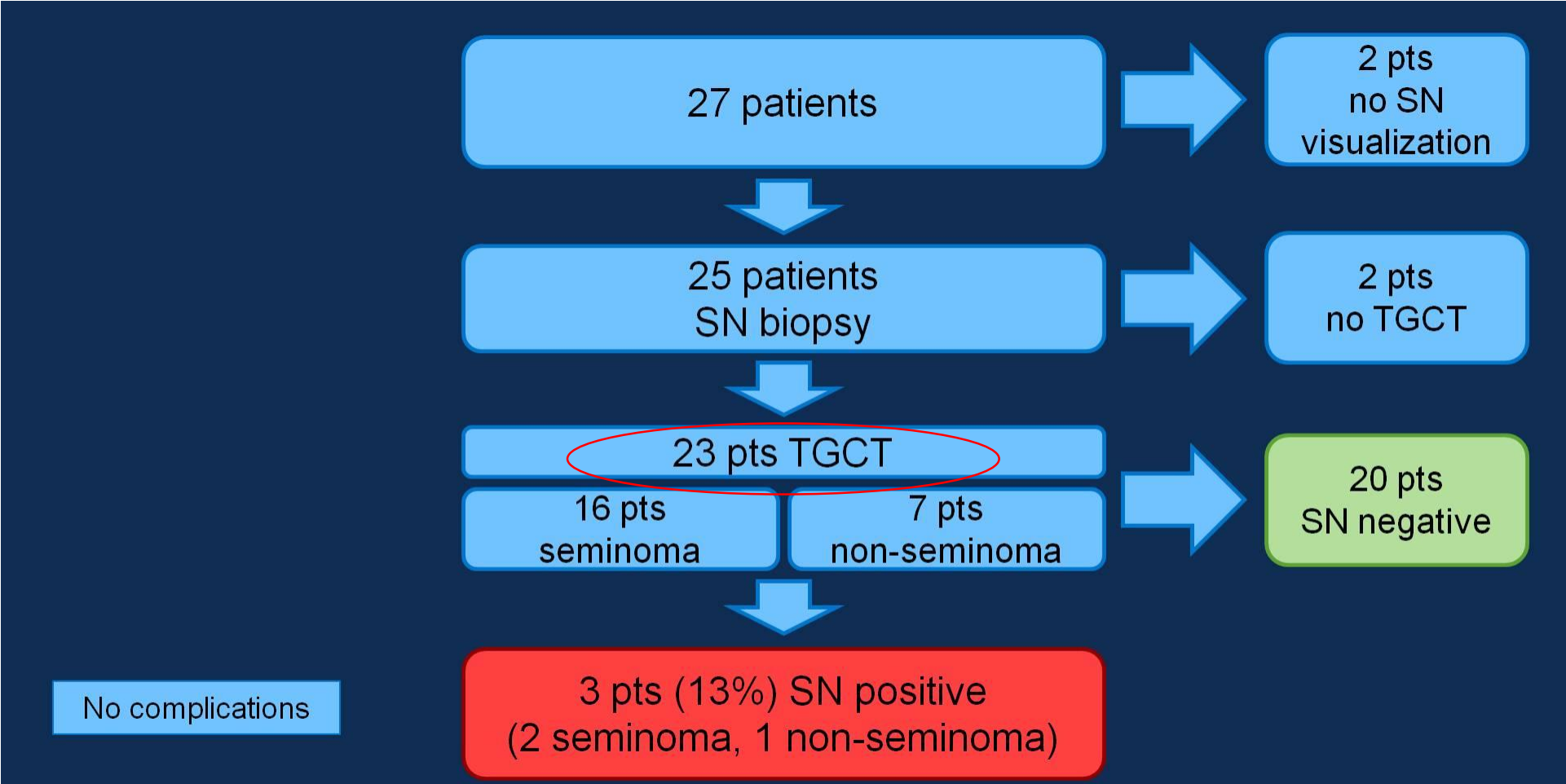
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# Follow-up results

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3 patients  
SN positive

20 patients  
SN negative

Adjuvant chemotherapy

BEP x4

CEB x4

Carbo  
x2

Median follow-up  
63.9 mos. (29.0 – 143.4)

No relapse

No relapse

# Take-home messages

- SN makes early identification of patients with occult metastatic disease possible
- Negative SN → no relapse (n=20)

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# Adjusted treatment?

- SN negative: less intensive follow-up
- SN positive: less toxic treatment, at an early stage

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# However...

- Additional invasive procedure
  - Additional risk of complications
- ‘Unnecessary’ in some patients

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# SENATOR Study

- SEntinal lymph Node procedure in testicular A germ cell TumOuR
- 76 patients
- Netherlands Cancer Institute and University Medical Center Utrecht
- Aim: investigate whether SN negative patients will experience relapse

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# Long-term sexual functioning in germ-cell tumor survivors

Chovanec M, Vasilkova L, Setteyova L, Obertova J, Palacka P, Rejlekova K, Sycova-Mila Z, Kalavska K, Svetlovska D, Mladosevicova B, Mardiak J, Mego M

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# Background

- Germ-cell tumors (GCTs) – curative Tx
- Late toxic treatment sequelae <sup>1,2</sup>
- Issues in quality of life
- Self reported outcomes – important in cancer care <sup>3</sup>

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<sup>1</sup> Haugnes HS et al. J Clin Oncol 2012, 30: 3752–3763

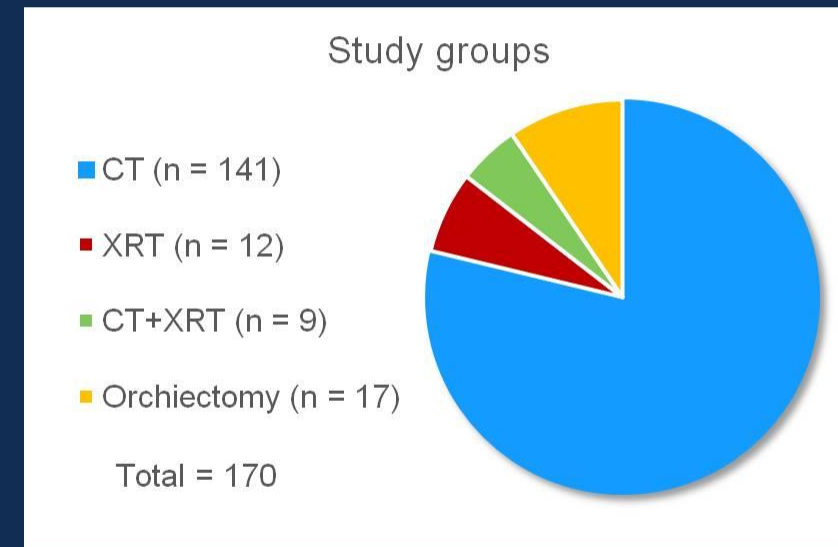
<sup>2</sup> Travis LB et al. J Natl Cancer Inst, 2010, 102: 1114–1130

<sup>3</sup> Basch EM et al. J Clin Oncol, 2017, 35 (suppl; abstr LBA2)

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# Study design and participants

- Prospective study
- GCT survivors > 5 years after Tx (n=170)
- Median follow up – 10 yrs
- PROMIS modified sexual function questionnaire



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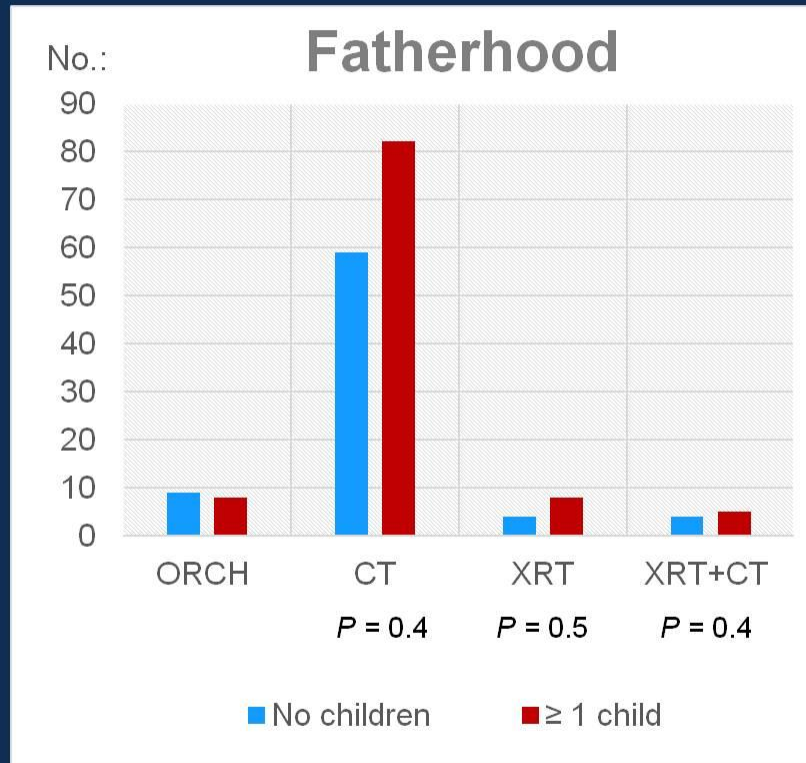
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# Education, job, marital status and fatherhood

- No differences between study groups
- All  $P > 0.05$



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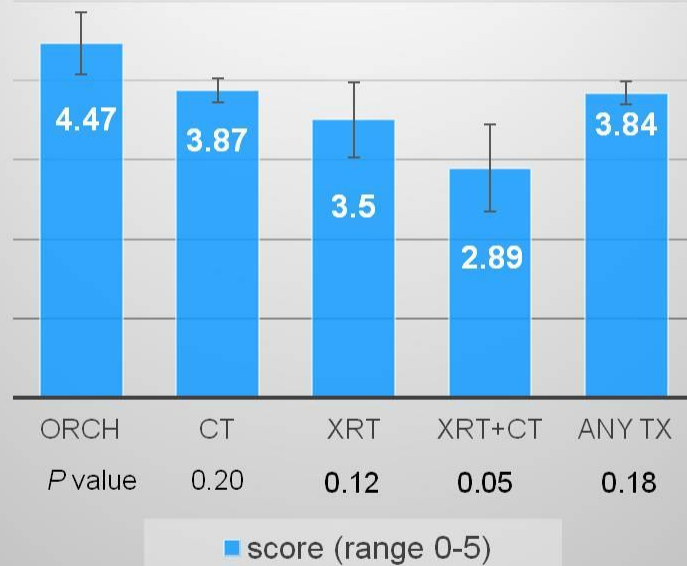
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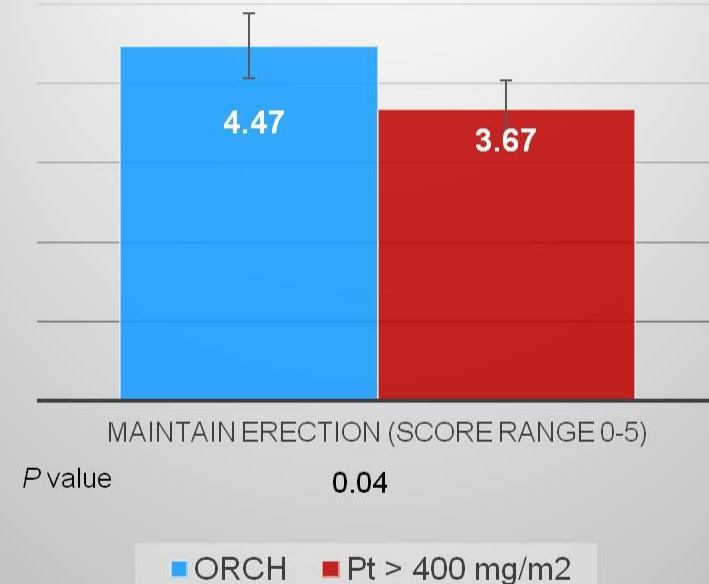


# Results

## Ability to achieve an erection



## Ability to maintain an erection



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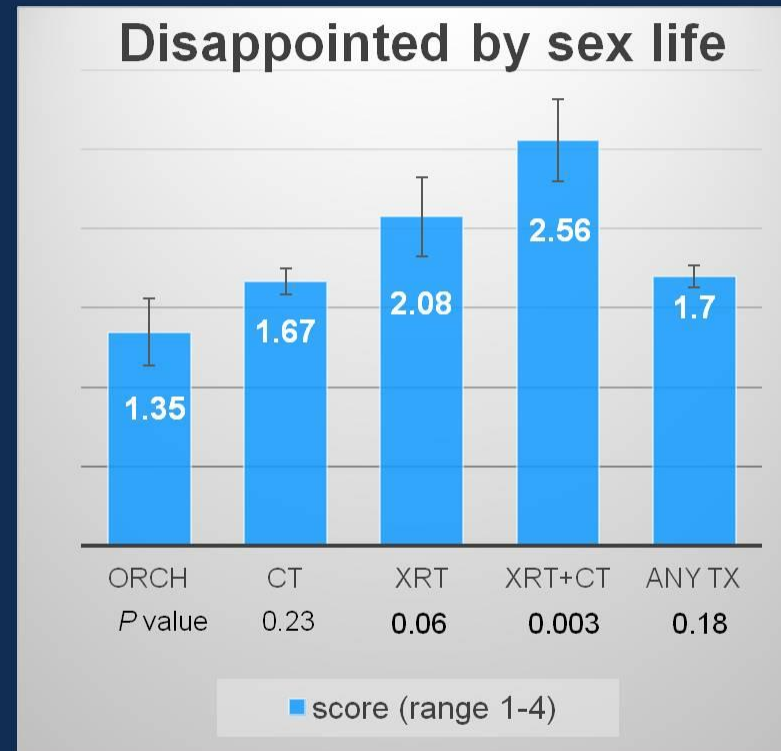
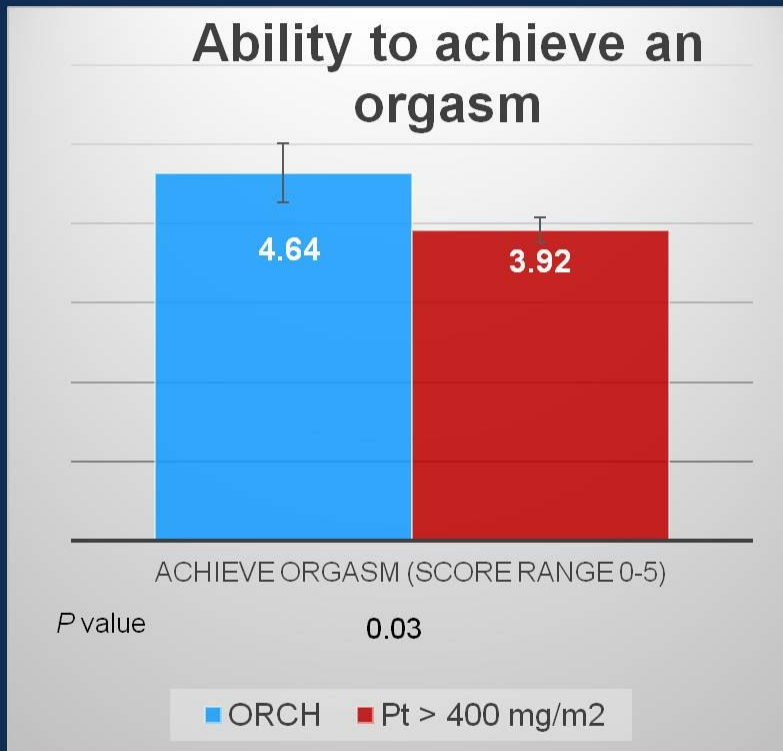
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# Results



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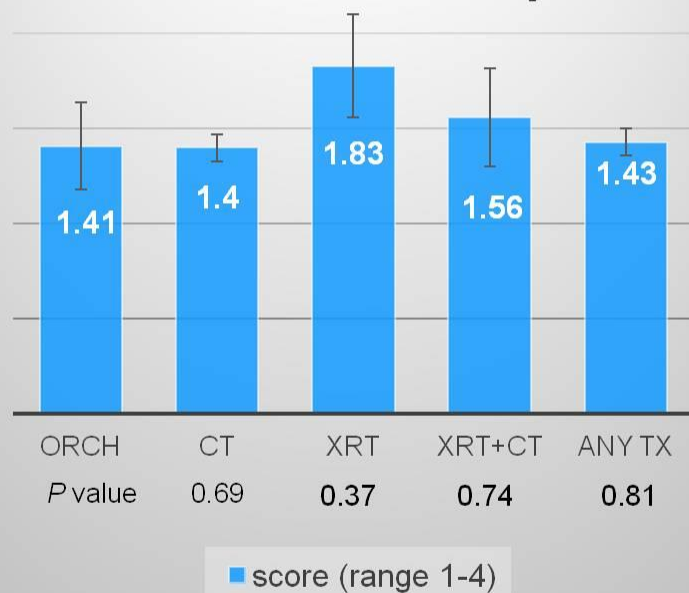
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# Results

## Anxiety from a sexual relationship



## Desire to be sexually active



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# Results

- Serious to severe impairment:
- 10 – 33 % of all survivors

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Variable	Testosterone (ng/mL)	N	Mean	SEM	Median	P value
Sexual desire	< 300	102	3.2	0.08	3	0.15
	> 300	22	2.9	0.19	3	
Attempts to initiate intercourse	< 300	102	2.4	0.15	2	0.41
	> 300	22	2.1	0.34	2	
Achieve erection	< 300	102	4.1	0.17	5	0.21
	> 300	22	3.5	0.36	5	
Maintain erection	< 300	102	4.0	0.16	5	<b>0.02</b>
	> 300	22	3.0	0.35	4	
Achieve orgasm	< 300	101	4.3	0.14	5	0.58
	> 300	21	4	0.31	5	
Disappointed with quality of sex life	< 300	101	1.7	0.09	1	0.88
	> 300	21	1.6	0.20	1	
Anxiety from sexual relationships	< 300	101	1.4	0.08	1	0.07
	> 300	21	1.8	0.18	1	

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# Limitations

- Small numbers in some groups
- XRT and XRT+CT: need validation in a large cohort

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# Conclusions

- Sexual functioning - serious issue in GCT srvs
- The highest risk
  - XRT
  - XRT+CT
  - cumulative Pt > 400 mg/m<sup>2</sup>
- Sexual impairment – independent of low testosterone levels

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SHERATON SÃO PAULO WTC HOTEL

PÓS ASCO GU 2018  
Testicular Câncer  
ANA PAULA GARCIA CARDOSO  
HOSPITAL ISRAELITA ALBERT EINSTEIN

## CONCLUSÃO

Estudos geradores de hipóteses, nenhum "practice changing":

1- Manejo de massas residuais pós quimioterapia

❖ Abstract 546- Serum miRNA to predict post-chemotherapy viable disease in testicular non-seminomatous germ cell tumor patients.

2- Biópsia de LN sentinela como ferramenta de seleção de pacientes ECI q vão receber tratamento adjuvante ou definir melhor o seguimento desses pacientes, inclusive sobre a frequência de exames de imagem que vão realizar

❖ Abstract 550- Sentinel node biopsy in clinical stage I testicular cancer;

3- Toxicidade a longo prazo – importância da disfunção sexual na qualidade de vida de pacientes sobreviventes ao tratamento de câncer de testículo

❖ Abstract 549- Long-term sexual functioning in germ-cell tumor survivors;





# IX Congresso Internacional de Uro-Oncologia

IV SIMPÓSIO MULTIPROFISSIONAL DE URO-ONCOLOGIA

1 a 3 de Março de 2018

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