

# Long-term results of dose escalation (80 vs 70 Gy) combined with long-term androgen deprivation in high-risk prostate cancers: GETUG-AFU 18 randomized trial

Presented at BMUC 2024 by Alastair Lamb

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for the French Genito-Urinary Tumors Study Group (GETUG).

# Do you still use normofractionation in your center for treating primary high risk PCa?

- Yes, always
- Yes, in certain cases.
- No

# Conflict of interest statement

We have no relationships to disclose

- Sponsor: R&D Unicancer, Paris
- Funders: French national Ligue against cancer + INCA

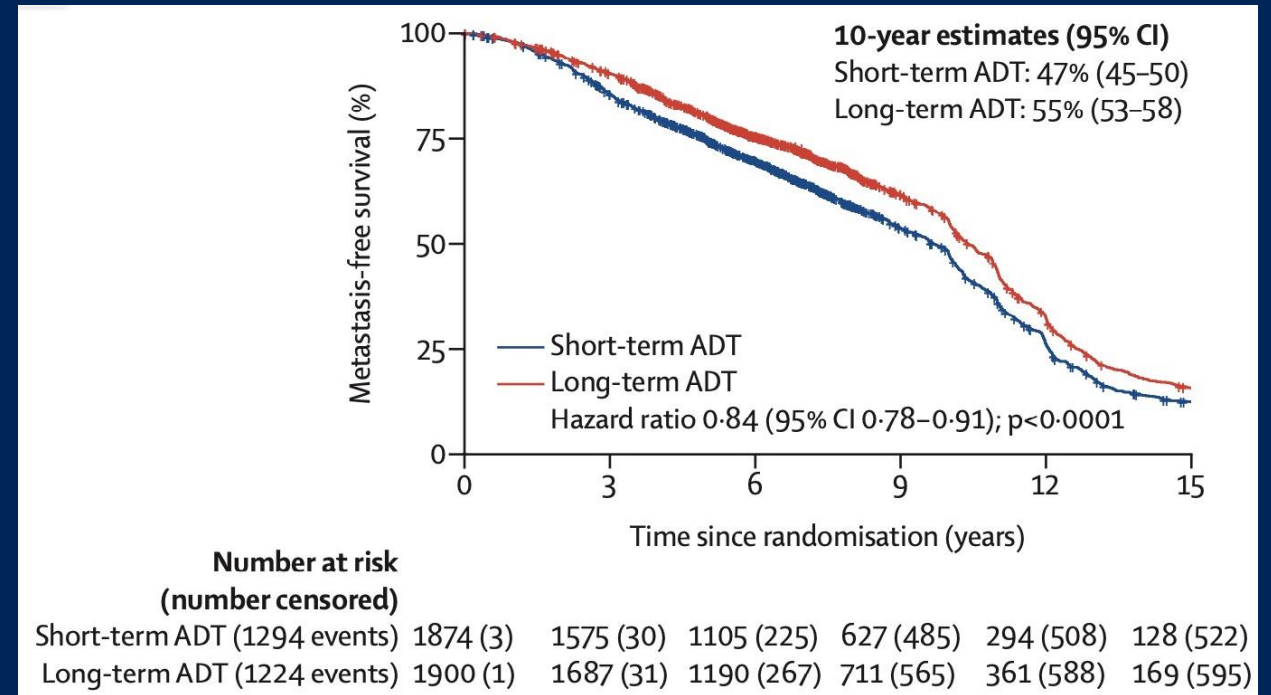
# Dose escalation in prostate cancer

Trial	Follow-up (yrs)	Risk groups (%)			ADT	Biochemical control (%)	
		Low	Interm	High		Low dose	High dose
MD Anderson	15	20.5	46.5	33	No	<u>70 Gy:</u> 81.1	<u>78 Gy:</u> 88
MRC RT01	10	19	37	44	SADT 100%	<u>64 Gy:</u> 43%	<u>74 Gy:</u> 55%
Dutch trial	9	18	27	55	SADT #10% LADT #11%	<u>68 Gy:</u> 43%	<u>78 Gy:</u> 49%
Proton ROG 95-09	10	58	36.5	4.5	No	<u>70 Gy:</u> 68%	<u>79 Gy:</u> 84%
RTOG 0126	8	-	100	-	No	<u>70.2 Gy:</u> 65%	<u>79.2 Gy:</u> 80%
GETUG 06	5		NA		No	<u>70 Gy:</u> 68%	<u>80 Gy:</u> 76.5%

# Long-term ADT (LADT) is a standard of care in high risk prostate cancer

- EORTC
- RTOG
- **LADT > SADT**

- Meta-analysis MARCAP:  
**LADT > SADT**



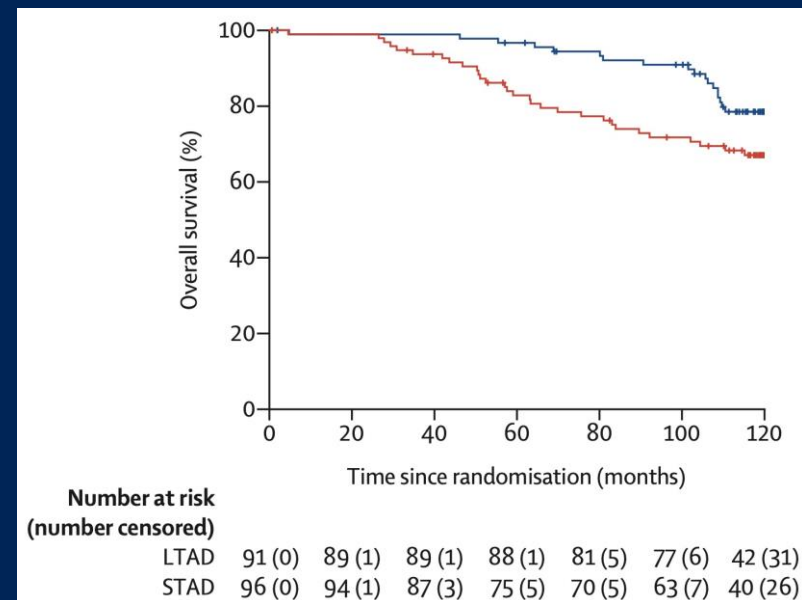
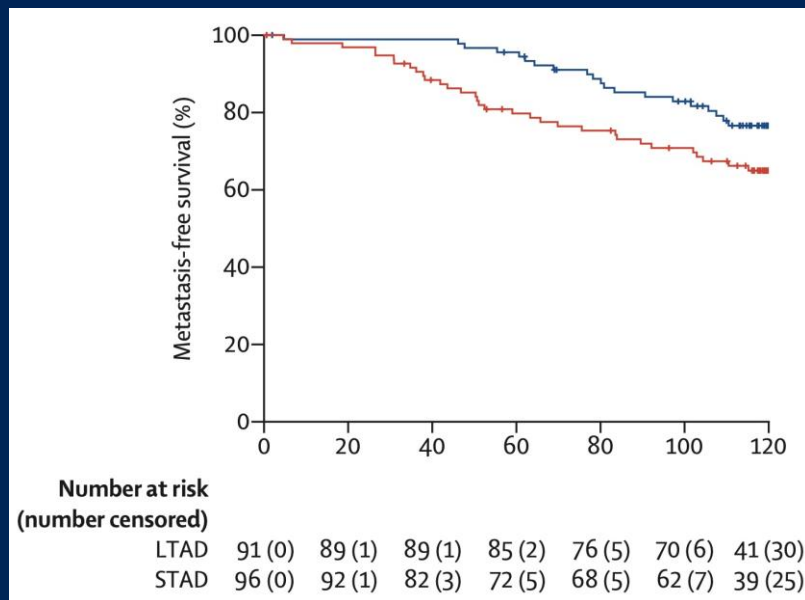
*Bolla, NEJM, 2009, 360: 2516-2527*

*Lawton, IJROBP, 2017, 98: 296-303*

*Kishan, Lancet Oncol 2022; 23: 304-16*

# LDAT seems to be required even in case of high dose RT

- Spanish Trial: Dose RT  $\geq 76$  Gy
- SADT (4 months) vs LADT (28 months)
- High-risk patients sub-group



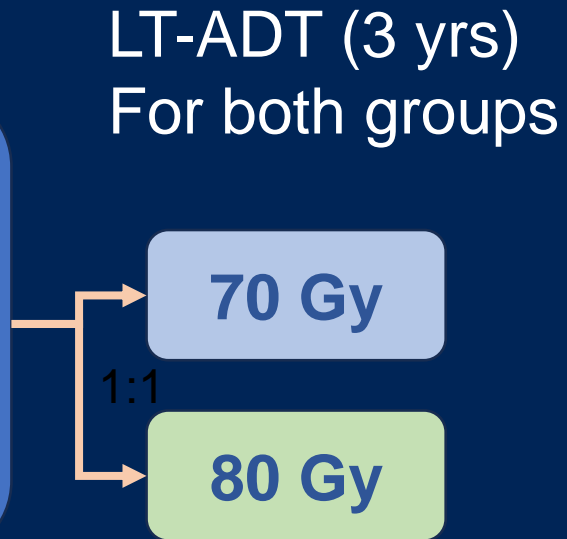
*Zapatero,  
Lancet Oncol  
2022; 23: 671–81*

# GETUG 18 trial

Does high-dose RT (80 Gy) improve outcomes compared to standard dose (70 Gy) in case of Long-term ADT ?

# GETUG 18 trial: design

- High-risk PC:  
One of these 3 factors:
  - PSA  $\geq$  20 ng/ml
  - Gleason  $\geq$  8
  - cT3-T4
- PS 0-2



Primary end-point:  
**PFS**

- Secondary end-points:
- Cancer specific Survival
  - Overall survival
  - Toxicity

Stratification:

- Center
- Lymph node resection (yes/no)

PFS: Biochemical or clinical disease-free survival

Biochemical failure: nadir + 2 ng/ml  
(Phoenix definition)



# GETUG 18: Population

	70 Gy	80 Gy	All
Nbre pts	255	250	
Median Age	70.0 (52.0; 80.0)	71.0 (54.0; 80.0)	71.0 (52.0; 80.0)
PSA ≥ 20 ng/ml	91 (39.4)	78 (35.5)	169 (37.5)
ISUP 4-5	139 (54.5%)	129 (51.6%)	268 (53.1%)
cT3-T4	106 (44.4%)	103 (45.2%)	209 (44.8%)
One factor	159 (62.4%)	167 (66.8%)	326 (64.6%)
Two factors	65 (25.5%)	55 (22.0%)	120 (23.8%)
Three factors	16 (6.3%)	11 (4.4%)	27 (5.4%)
Lymph node dissection	41 (16.1%)	42 (16.8%)	83 (16.4%)

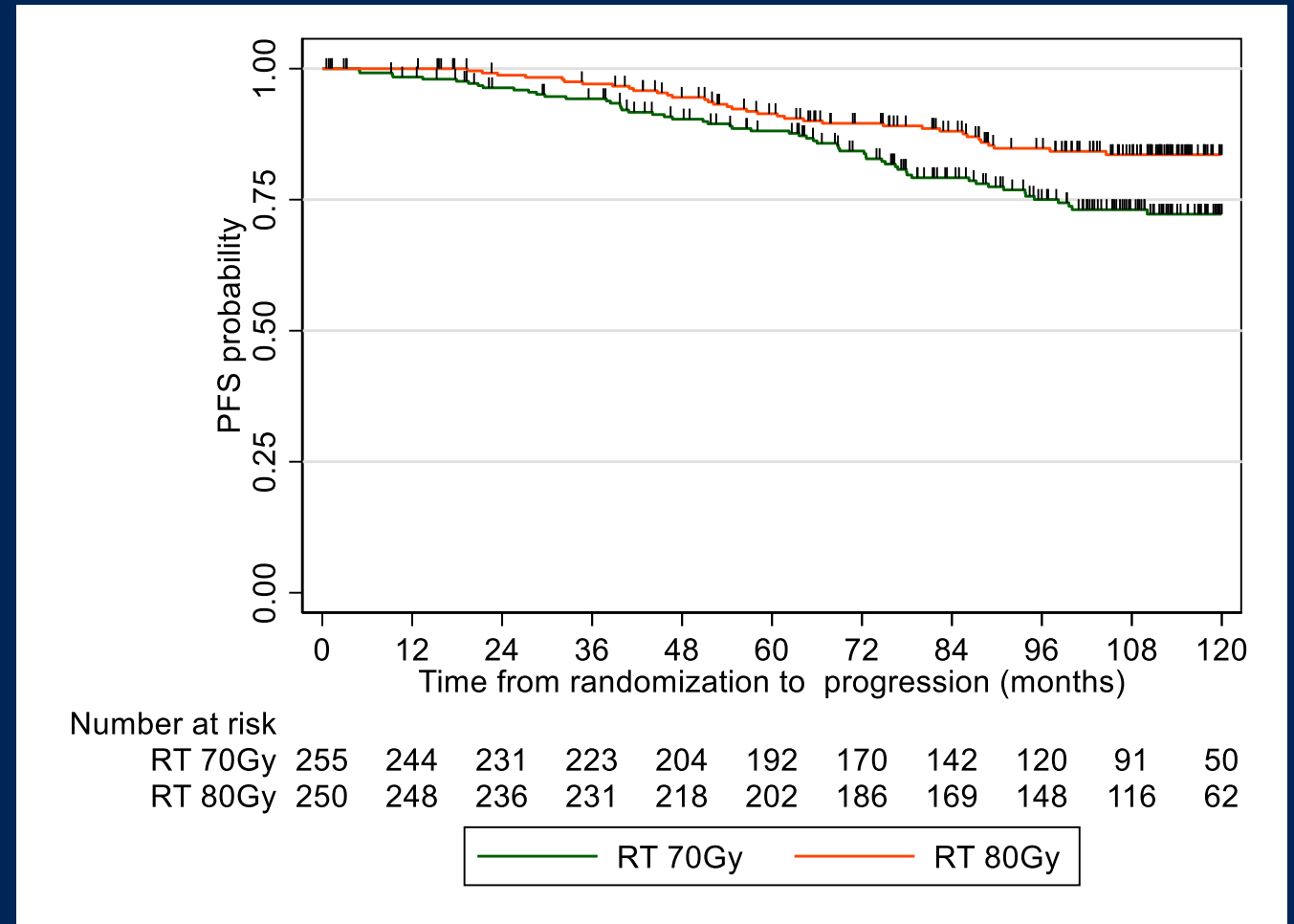
# GETUG 18: Treatments

- Median duration for ADT: 33.4 months
- Radiotherapy: not performed: 6 (1.2%)
- Pelvic lymph node RT: 82.9%
  - Not done if negative pelvic lymph node dissection
- Type of Radiotherapy:

	Arm 70 Gy	Arm 80 Gy	All
IMRT <i>P</i> = <0.001	146 (58.6%)	200 (80.6%)	346 (69.6%)

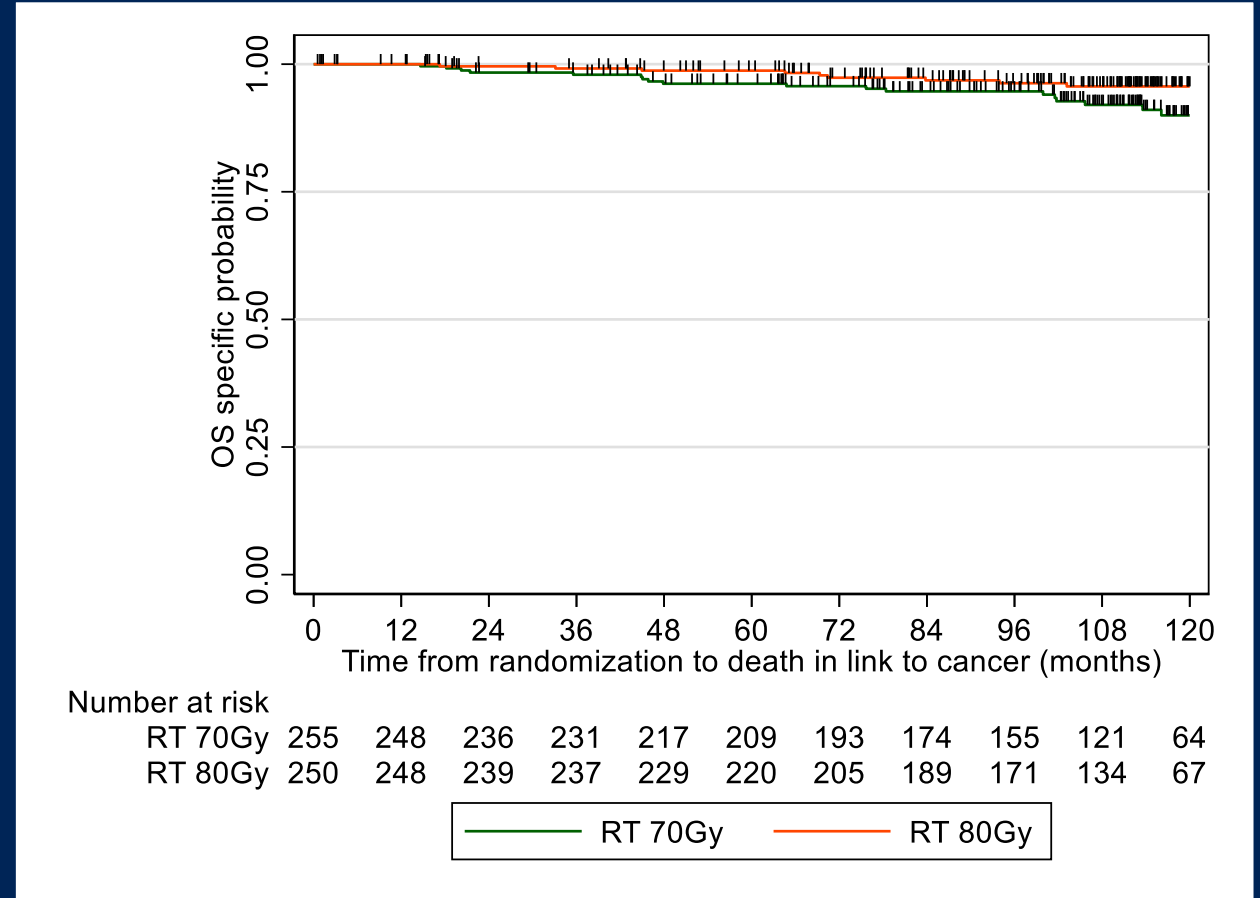
# GETUG 18: Results: PFS

- Median follow-up of 114.2 months,  
(95% CI) [112.5; 116.5]
- 5-year Progression-free survival rates,
  - Arm 80 Gy: 91.4 (87.0-94.4%)
  - Arm 70 Gy : 88.1 (83.2-91.6%)
- **10-year Progression-free survival rates**
  - **Arm 80 Gy: 83.6 (77.8-88.0%)**
  - **Arm 70 Gy: 72.2 (65.3-78.0%)**
- **HR=0.56 (0.40-0.76); p= 0.0005**  
**in favor of arm 80Gy**



# GETUG 18: Results: Cancer Specific survival

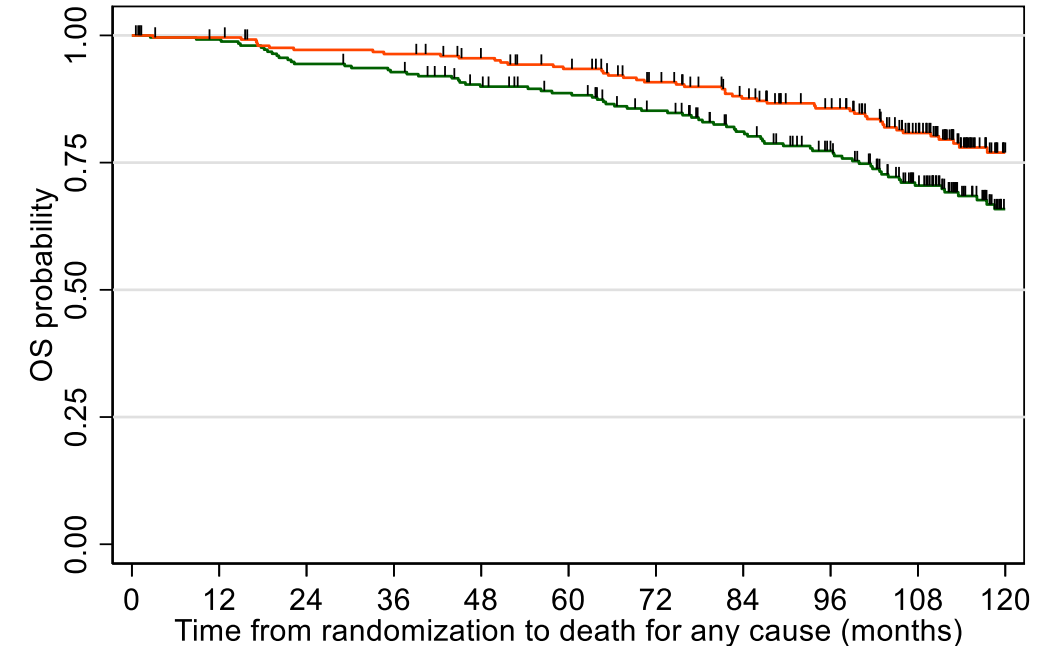
- Median follow-up of 114.2 months, (95% CI) [112.5; 116.5]
- 5-year cancer specific survival rates,
  - Arm 80 Gy: 98.7 (96.2-99.6%)
  - Arm 70 Gy: 96.6 (93.3-98.3%)
- **10-year Cancer specific survival rates**
  - **Arm 80 Gy: 95.6 (91.7-97.7%)**
  - **Arm 70 Gy: 90.0 (84.1-93.8%)**
- **HR= 0.48 (0.27-0.83) p=0.0090**  
in favor of arm 80 Gy



# GETUG 18: Results: Overall Survival

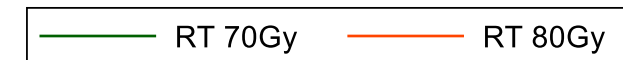
- Median follow-up of 114.2 months, (95% CI) [112.5; 116.5]
- 5-year overall survival rates,
  - Arm 80 Gy: 93.4 (89.5-95.9%)
  - Arm 70 Gy: 88.7 (84.0-92.0%)
- **10-year overall survival rates**
  - **Arm 80 Gy: 77.0 (70.2-82.4%)**
  - **Arm 70 Gy: 65.9 (58.7-72.1%)**

- **HR= 0.61 (0.44-0.85) p=0.0039**  
in favor of arm 80 Gy



Number at risk

RT 70Gy	255	248	236	231	217	209	193	174	155	121	64
RT 80Gy	250	248	239	237	229	220	205	189	171	134	67



# GETUG 18: Results: Late Toxicity

Safety population:

- Arm 80 Gy: n= 248
- Arm 70 Gy: n= 251

- Late Genito-Urinary toxicity  
(Renal and urinary disorders)

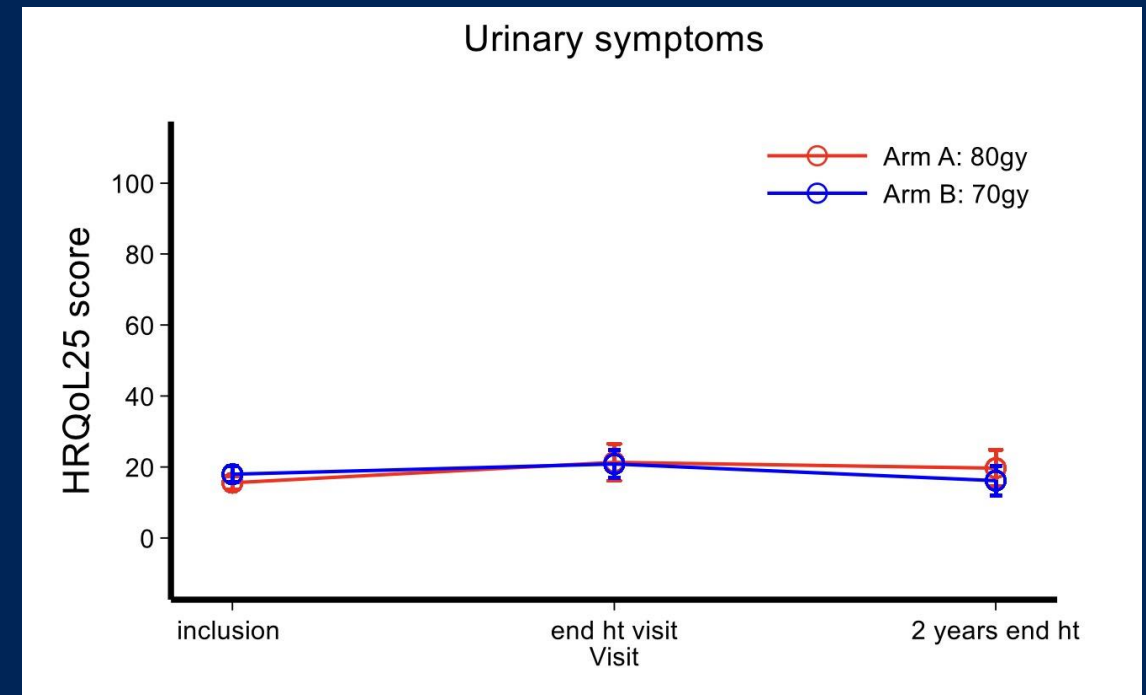
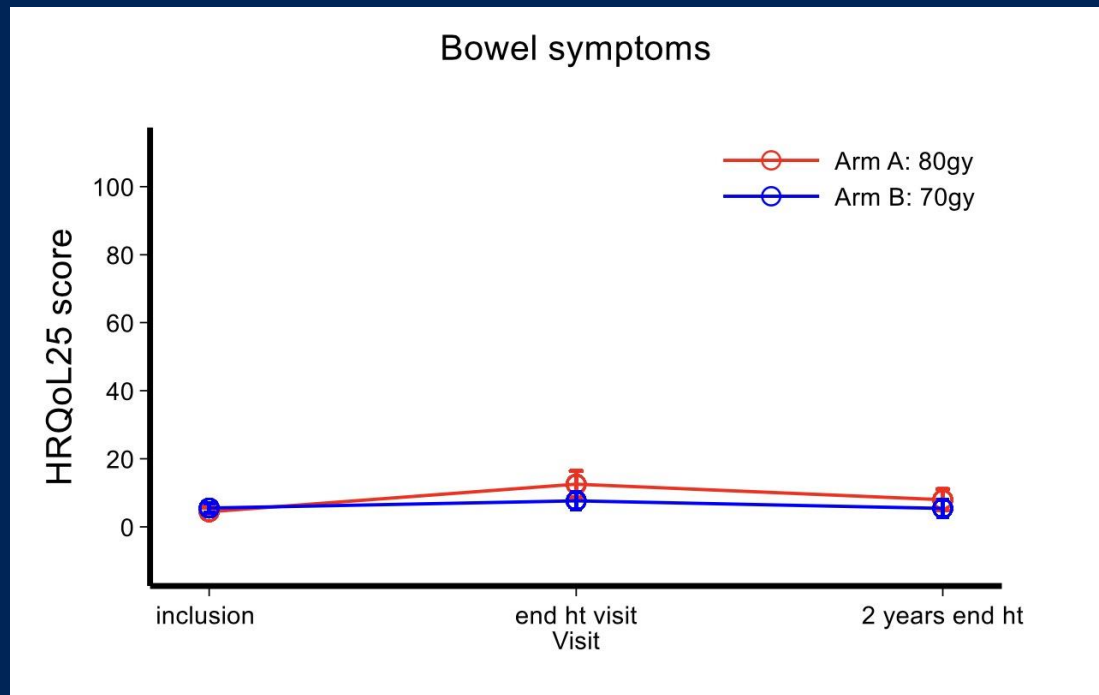
	70 Gy	80 Gy
Grade $\geq$ 2	19.9%	20.6%
Grade $\geq$ 3	3.2%	2.0%

- Late digestive Toxicity  
(gastro-intestinal disorders)

	70 Gy	80 Gy
Grade $\geq$ 2	8.8%	6.9%
Grade $\geq$ 3	1.6%	1.6%

# GETUG 18: Quality of life

- No differences between arms
  - for the QLQ-C30 questionnaire
  - for QLQ-PR25 questionnaire



# GETUG 18: Conclusion

- Even in case of Long-term ADT
- Higher dose (80 Gy) improves PFS, Cancer Specific Survival and Overall survival
- In high risk prostate cancer
- Without increasing toxicity
  
- IMRT is required to obtain these results

**High dose RT with LT-ADT:  
A new standard of care in high risk PC**



# Acknowledgements

- Patients and their families
- All investigators
- UNICANCER Teams
- Funders:
  - French national Ligue against cancer
  - INCA
  - ASTRA-ZENECA for their grant

# If you use hypofractionated radiotherapy, would you opt to increase the dose of your schedule based on the results of GETUG18?

- No
- Yes