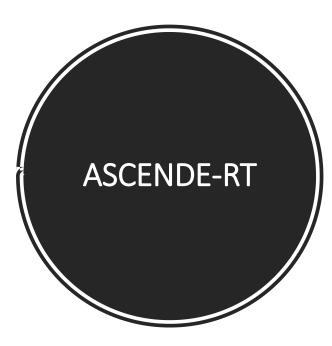
Survival Analysis Following LDR Brachytherapy Boost for Prostate Cancer at the Royal Surrey Hospital: A Comparison with the ASCENDE-RT Trial

> MOHAMED METAWE, MBBS, MSC, FRCR SPECIALTY DOCTOR & LOCUM CONSULTANT ONCOLOGIST – ROYAL SURREY HOSPITAL

Conflicts of Interest

• BXTA provided sponsorship to attend this conference





International Journal of Radiation Oncology*Biology*Physics Volume 115, Issue 5, 1 April 2023, Pages 1061-1070



CLINICAL INVESTIGATION

An Updated Analysis of the Survival Endpoints of ASCENDE-RT

Justin Oh MD * [†], Scott Tyldesley MD * [†] , Michael McKenzie MD * [†], <u>Ross Halperin MD</u> [§], Graeme Duncan MD * [†], Gerard Morton MB ^{||}, Mira Keyes MD * [†], Jeremy Hamm MSc [¶], W. James Morris MD * [†]



Comparison with ASCENDE-RT



Comparison between 2-stage and 4D

Methods

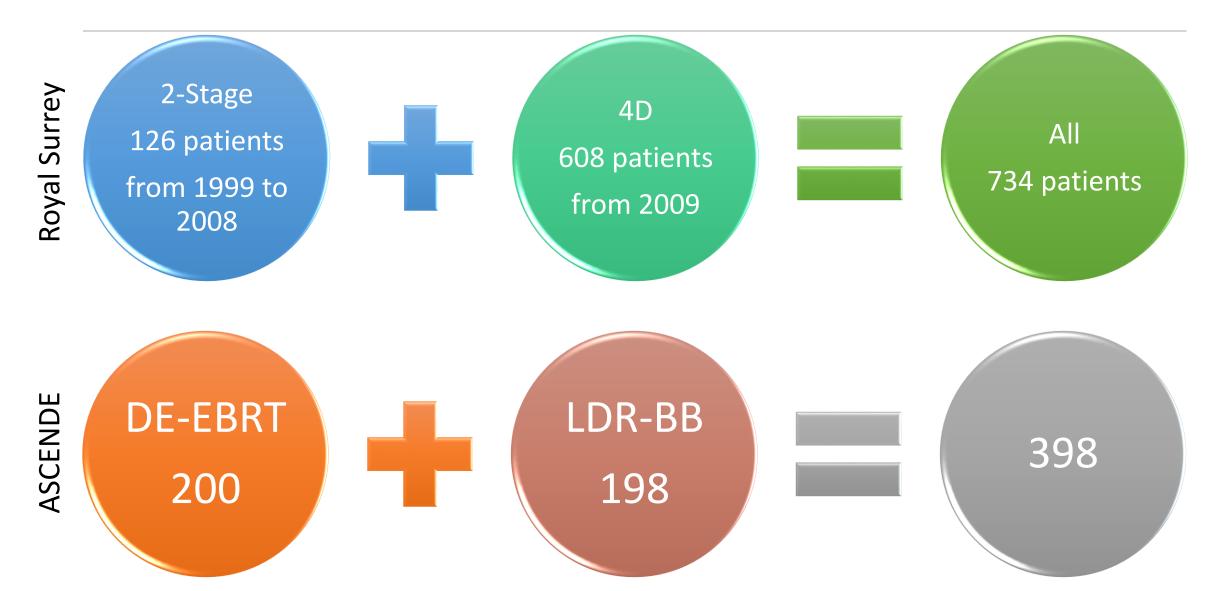


DATABASE

NHS SPINE SEARCH

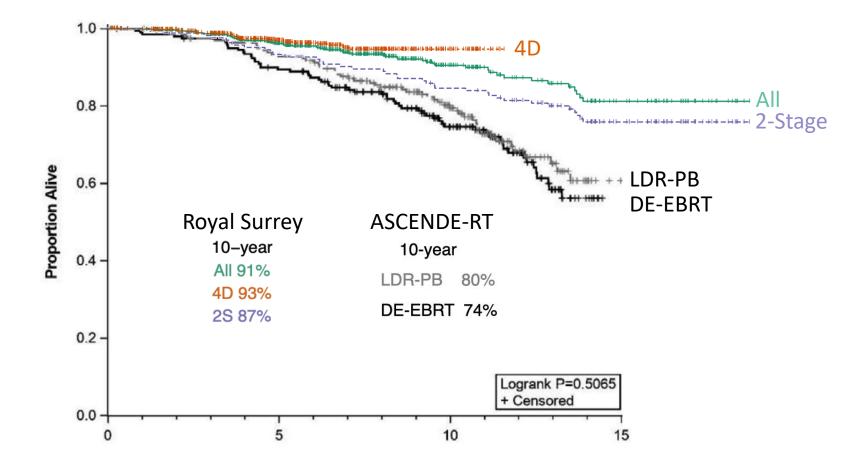
Results

Demography

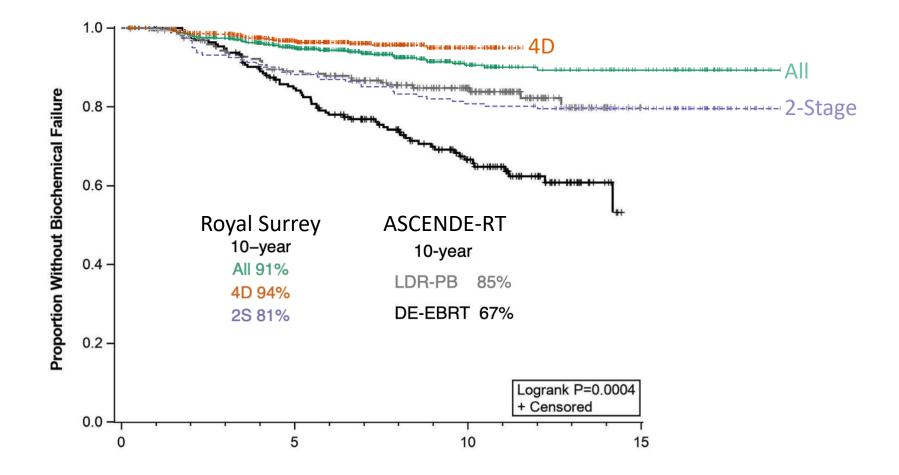


	4D	2-STAGE	ASCENDE'S LDR-BB ARM
Median age (years)	68	63	67
Median follow-up (years)	7	18	10
PSA			
≤10	49%	34%	49%
10-20	34%	55%	33.3%
≥20	17%	11%	17.7%
GS			
6	5%	24%	6.1%
7	63%	59%	52.5%
8-10	32%	17%	41.4%
Risk Category			
Intermediate	40%	42%	30%
High	60%	58%	70%

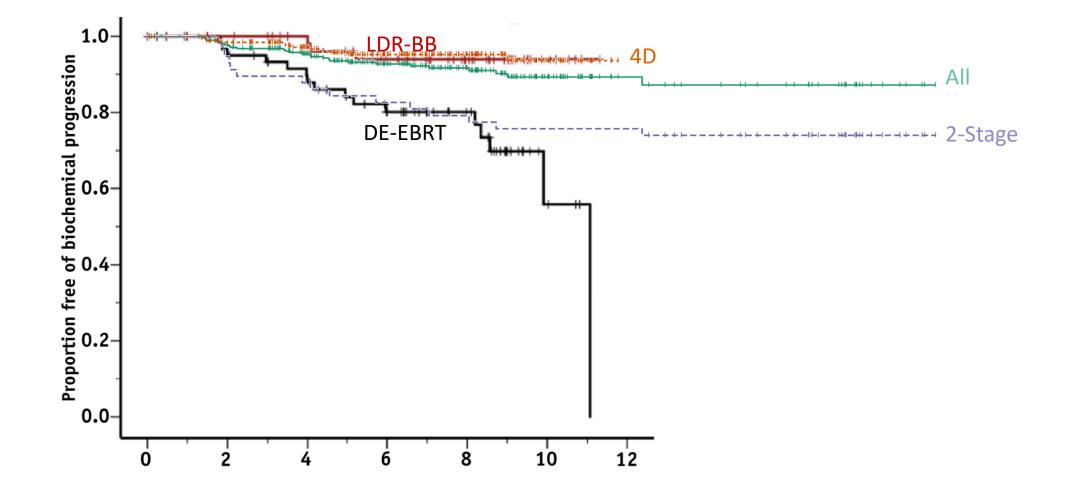
Overall Survival



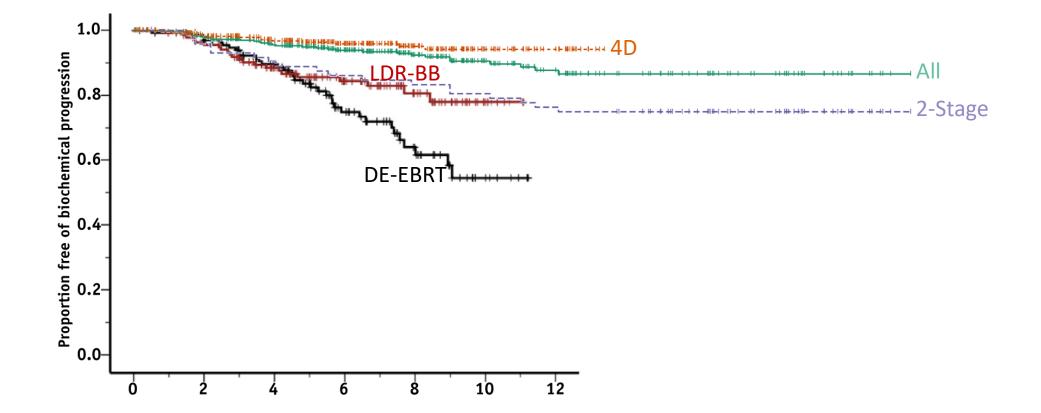
Relapse-free Survival



Intermediate Risk



High Risk



What about morbidity & QoL?



Clinical Investigation

ASCENDE-RT: An Analysis of Treatment-Related Morbidity for a Randomized Trial Comparing a Low-Dose-Rate Brachytherapy Boost with a Dose-Escalated External Beam Boost for High- and Intermediate-Risk Prostate Cancer

Sree Rodda, MBBS, MRCP, FRCR,* Scott Tyldesley, MD, FRCPC,*^{,†} W. James Morris, MD, FRCPC,*^{,†} Mira Keyes, MD, FRCPC,*^{,†} **Clinical Investigation**

CrossMark

ASCENDE-RT: An Analysis of Health-Related Quality of Life for a Randomized Trial Comparing Low-Dose-Rate Brachytherapy Boost With Dose-Escalated External Beam Boost for High- and Intermediate-Risk Prostate Cancer

Sree Rodda, MBBS, MRCP, FRCR,* W. James Morris, MD, FRCPC, *,[†] Jeremy Hamm, MSC,[‡] and Graeme Duncan, MB, ChB, FRCPC*,[†]

*BC Cancer Agency, Vancouver Centre, Vancouver, British Columbia, Canada; [†]Department of Surgery, University of British Columbia, Vancouver, British Columbia, Canada; [‡]Department of Population Oncology, BC Cancer Agency, Vancouver Centre, Vancouver, British Columbia, Canada



GU Morbidity

	4D	25	ASCENDE (LDR-BB)
Stricture/Stenosis	29 (5%)	7 (6%)	16 (8%)
Pad usage			
≤2 pads	56 (9%)	11 (9%)	22 (12%)
>2 pads	16 (3%)	4 (3%)	9 (5%)



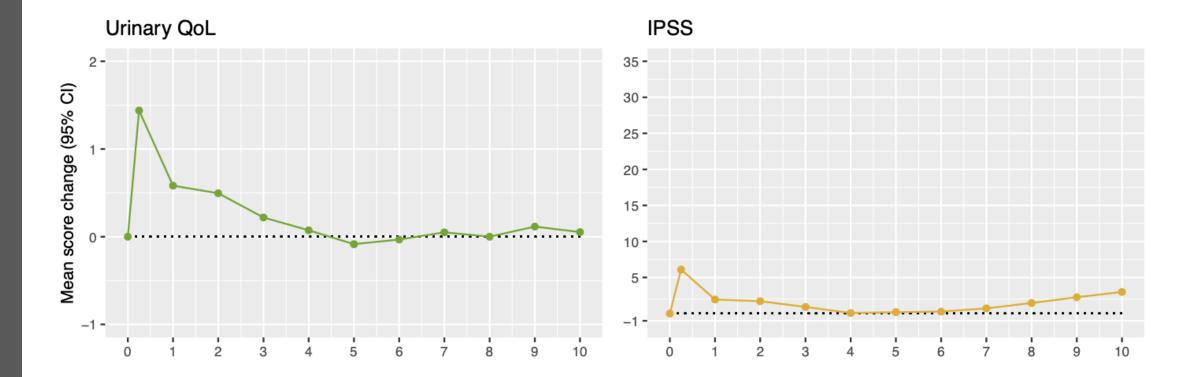
Patient Reported Outcome Measures (PROMs)

Male Health Inventory Questionnaire

These questions	are designe	ed to assess	s your ease	e of urination			
. Incomplete E	mptying O	ver the pas	t month, h	ow often have	e vou had a		
sensation of r							
		Less than	About half	More than	Almost	ality of Li	
	Itime in 5 h	alf the time	the time	half the time	always	r life with about th	
0	1	2	3	4	5	elighted	Plea
2. Frequency O	•				urinate		
again less tha							
	Less than I time in 5 ha	Less than If the time	About half the time	More than half the time	Almost always	0	Г
0	1	2	3	4	5		
. Intermittency							
stopped and s							
	Less than I time in 5 ha		About half the time	More than half the time	Almost		
					always		
0	1	2	3	4	5		
Urgency Over	the past m	onth, how	often have	you found it a	difficult to		
postpone urin	•						
			About half	More than	Almost		
1	time in 5 ha	If the time	the time	half the time	always		
0	1	2	3	4	5		
. Weak Stream		ist month, I	how often	have you had	a weak		
urinary stream							
		ess than . If the time	About half the time	More than half the time	Almost always		
· · · · ·							
0	1	2	3	4	5		
Straining Ove	r the past m	onth, how	often have	you had to p	ush or		
strain to begin	urination?						
			About half	More than	Almost		
¹	time in 5 ha	If the time	the time	half the time	always		
0	1	2	3	4	5		
Nocturia Ove	r the past m	onth, how	many time	s on average	did you get		
up each night							
None	1 time	2 times	3 times	4 times 5 tin	nes or more		
0	1	2	3	4	5		

Quality of Life due to Urinary Symptoms If you were to spend the rest of your life with your urinary condition just the way it is now, how would you feel about that?

Delighted	Pleased	Mostly satisfied	Mixed (Equally satisfied & dissatisfied)	Mostly dissatisfied	Unhappy	Terrible
0	1	2	3	4	5	6



Conclusions

Favorable survival outcomes of LDR-BB in line with ASCENDE-RT

4D seems to offer better outcomes compared to 2-Stage

Patient-reported urinary QoL was preserved long-term

Shank You!

Acknowledgement

- Santiago, our clinical scientist
- CNS Team, the backbone of our brachytherapy service!
- Patients

