# 30- Pathological outcomes in favourable vs unfavourable intermediate risk

prostate cancer

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## **OBJECTIVES**

We compared pathological outcomes of favourable intermediate risk (FIR) and unfavourable intermediate risk (UIR) prostate cancer.

### **METHODS**

We conducted a retrospective analysis in patients with intermediate risk PCa who underwent Laparoscopic Radical Prostatectomy (LRP).



We correlated FIR and UIR with endpoints;

We stratified patients according to number of unfavourable intermediate risk factors (UIRF);

## RESULTS

From our database we identified 177 intermediate risk patients. Baseline characteristics of the patients are described in table 1. UIR patients presented higher PSA, PSAD, higher positive core percentage and more extended lymphonode dissection template. UIR patients had increased risk of pathological upstaging and downgrading, worse pathological grading and worse adverse pathological outcomes (table 2). When stratified by number of UIRF, patients with more than one UIRF had higher risk of upstaging, upgrading and adverse pathology than patients with no UIRF (table 3).

Table 1. Base	eline chara	acteristics	Table 2. Pathological outcomes						
		FIR	UIR	p value			FIR	UIR	p value
pts	n (%)	56 (31.6)	121 (68.4)			T2a	19.6	2.5	
Age	У	66.0 ±5.9	66.3 ±5.7	0.73	Pathological	T2b	7.1	7.4	0.001
BMI	n (SD)	27.6 ±3.2	26.7 ±3.6	0.21	Stage	120	62.5	52.1	
PSA	ng/ml	7.7 ±3.4	10.2 ±6.1	0.06		T2h	10.7	27.5	
PSA	0.1-10.0	85.7	62.8	0.000		130	0	10.7	
	10.1-20.0	14.3	37.2	0.002	F.0.F	% (n)	10.7	38.0	<0.001
Prostate volume	cc (SD)	56.2 ±20.4	52.8 ±19.3	0.32	ECE				
PSAD	ng/ml/cc	0.16 ±0.98	0.21 ±0.14	0.01		3+3	3.6	2.5	
Glason bx	3+4	100	28.9	<0.001		3+4	67.9	32.2	
	4+3	0	71.1		Pathological	4+3	25.0	47.9	<0.001
Clinical stage	T1c	55.4	42.2		Gleason	4+4	3.6	13.2	
	T2a	23.2	15.7	0.053		>8	0	4.1	
	T2b	21.4	38.8	0.055		0/	20.0	26.4	0.0
	T2c	0	3.3		Upgrading	%	28.6	26.4	0.9
% +ve cores	0.1-50 %	100	56.2	<0.001	Downgrading	%	3.6	18.2	0.01
group	50.1-100%	0	43.8	~0.001	DSM	0/	12 5	20.7	0.21
LAD template	Extended	98.2	85.9	0.003	P JIVI	/0	12.5	20.7	0.21
	Superext.	1.8	14.1	0.003	Nodal mets	%	0	5.8	0.13
N° of removed nodes	n (SD)	17.4 ±9.9	20.1 ±9.3	0.09	Adverse disease	%	12.5	50.4	<0.001

## Table 3. Pathological outcomes stratified by number of intermediate risk factors

		Incidence %		p value			
	Group 1 FIR -0 UIRF	Group 2 FIR – 1 UIRF	Group 3 UIR - >1 UIRF	Group 2 vs 1	Group 3 vs 1	Group 3 vs 2	
ECE	5.6	20.0	34.3	0.09	0.002	0.26	
Upgrading	19.4	45.0	42.9 <b>0.04</b>		0.03	0.88	
Downgrading	7.1	0	0	0.25	0.12	-	
PSM	11.1	15.0	5.7	0.67	0.41	0.25	
Nodal mets	0	0	8.6	-	0.20	0.34	
Adverse disease	8.3	20.0	40.0	0.21	0.002	0.13	

## CONCLUSIONS

In our experience patients with UIR prostate cancer have increased risk of ECE, downgrading and adverse pathological outcomes than patients with FIR prostate cancer. Therefore, number of unfavourable risk factors seems to correlate with risk of extracapsular extension, upgrading and adverse pathological findings.