

Title	The burden of healthcare costs associated with prostate cancer in Ireland
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Supplementary Table I: Unit and Total Costs for the PCa patient pathways

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	Unit Cost (2010 €)	SOURCE
DETECTION AND DIAGNOSIS		
PSA-BASED DETECTION		
GP visit with PSA test and counselling	€ 48.51	Drummond et al 2015
PSA test	€ 7.22	Drummond et al 2013
TOTAL COST OF A PSA-BASED SCREEN	€ 55.73	
POSITIVE PSA TEST- CONFIRMATORY BIOPSY		
Outpatient consultation - first consultation	€ 139.00	HSE Casemix (2012)
TRUS guided biopsy	€ 272.00	HSE Casemix (2012)
Biopsy complications - hospitalisation	€ 1,503.00	HSE Casemix (2012)
Risk of biopsy complications	1.4%	Hummel et al (2013)
TOTAL COST OF BIOPSY- POST PSA	€ 432.04	
POSITIVE BIOPSY- DISEASE STAGING		
Outpatient consultation - 2nd consultation	€ 139.00	HSE Casemix (2012)
Diagnostic tests (blood and urine)	€ 64.78	Leal 2010
Imaging (MRI scan)	€ 232.60	UCHG Micro-costing study (unpublished)
Number of MRI scans	30%	NCRI Patient level survey data (unpublished)
Bone scan	€ 114.61	UCHG Micro-costing study (unpublished)
Number of bone scans	30%	NCRI Patient level survey data (unpublished)
Repeat biopsy	€ 272.00	HSE Casemix (2012)
Proportion of repeat biopsies per patient	25%	NCRI Patient level survey data (unpublished)
TOTAL COST OF POSITIVE BIOPSY (STAGING)	€ 375.94	
TREATMENT		
ACTIVE MONITORING (AS/WW)		
GP Visit (4 annually)	€ 194.04	Drummond et al 2015
Outpatient consultation (1 annually)	€ 139.00	HSE Casemix (2012)
PSA test (4 annually)	€ 28.88	Drummond et al 2013
Biopsy (1 annually)	€ 272.00	HSE Casemix (2012)
Biopsy complications - hospitalisation	€ 1,503.00	HSE Casemix (2012)
Risk of biopsy complications	1.4%	Hummel et al 2013
ANNUAL COST OF ACTIVE MONITORING	€ 654.96	
RADICAL PROSTATECTOMY		
Radical prostatectomy	€ 6,398.96	HSE Casemix (2012)
Urology Outpatient Appointment (initial)	€ 139.00	HSE Casemix (2012)
Urology Outpatient Appointment (follow up) (2 annually)	€ 278.00	HSE Casemix (2012)
Diagnostic tests (blood and urine) (2 annually)	€ 129.56	Leal 2010
Imaging (MRI scan)	€ 232.60	UCHG Micro-costing study (unpublished)
GP Visit (3 annually)	€ 145.53	Drummond et al 2015

COST OF RADICAL PROSTATECTOMY- YEAR 1	€ 7,323.65	
YEAR 2 & 3 CARE POST- RP		
Urology Outpatient Appointment (follow up) (2 annually)	€ 278.00	HSE Casemix (2012)
Diagnostic tests (blood and urine) (2 annually)	€ 129.56	Leal 2010
GP Visit (2 annually)	€ 97.02	Drummond et al 2015
COST OF RADICAL PROSTATECTOMY- YEAR 2/3	€ 504.58	
YEAR 4 CARE POST- RP		
Urology Outpatient Appointment (follow up) (1 annually)	€ 139.00	HSE Casemix (2012)
Diagnostic tests (blood and urine) (1 annually)	€ 64.78	Leal 2010
GP Visit (1 annually)	€ 48.51	Drummond et al 2015
COST OF RADICAL PROSTATECTOMY- YEAR 4	€ 252.29	
RADIOTHERAPY (IMRT)		
Radiotherapy	€ 5,057.93	UCHG Micro-costing study (unpublished)
Oncology Outpatient Appointment (initial)	€ 139.00	HSE Casemix (2012)
Oncology Outpatient Appointment (follow up) (3 annually)	€ 417.00	HSE Casemix (2012)
Diagnostic tests (blood and urine) (2 annually)	€ 129.56	Leal 2010
Imaging (MRI scan)	€ 232.60	UCHG Micro-costing study (unpublished)
GP Visit (3 annually)	€ 145.53	Drummond et al 2015
COST OF RADIOTHERAPY- YEAR 1	€ 6,121.62	
RADIOTHERAPY (BRACHYTHERAPY)		LIQUOME C
Brachytherapy	€ 4073.92	UCHG Micro-costing study (unpublished)
Oncology Outpatient Appointment (follow up) (3 annually)	€ 417.00	HSE Casemix (2012)
Diagnostic tests (blood and urine) (2 annually)	€ 129.56	Leal 2010
Imaging (MRI scan)	€ 232.60	UCHG Micro-costing study (unpublished)
GP Visit (3 annually)	€ 145.53	Drummond et al 2015
COST OF BRACHYTHERAPY- YEAR 1	€ 4,998.61	
YEAR 2 & 3 CARE POST- RT/ BRACHY		
Urology Outpatient Appointment (follow up) (2 annually)	€ 278.00	HSE Casemix (2012)
Diagnostic tests (blood and urine) (2 annually)	€ 129.56	Leal 2010
GP Visit (2 annually)	€ 97.02	Drummond et al 2015
COST OF RADIOTHERAPY/ BRACHY YEAR 2/3	€ 504.58	
YEAR 4 CARE POST- RT/ BRACHY		
Urology Outpatient Appointment (follow up) (1 annually)	€ 139.00	HSE Casemix (2012)
Diagnostic tests (blood and urine) (1 annually)	€ 64.78	Leal 2010
GP Visit (1 annually)	€ 48.51	Drummond et al 2015
COST OF RADIOTHERAPY/ BRACHY	€ 252.29	

YEAR 4		
SURGERY- TRANSURETHRAL RESECTION OF THE PROSTATE		
Surgery- TURP	€ 4,868.00	HSE Casemix (2012)
GP Visit (2 annually)	€ 97.02	Drummond et al 2015
Bicalutamide 50 mg 3 days before and for 3 weeks	€ 103.95	HSE Community Pharmacist- personal communication
Urology Outpatient Appointment (2 annually)	€ 278.00	HSE Casemix (2012)
Diagnostic tests (blood and urine) (2 annually)	€ 129.56	Leal 2010
Imaging (MRI scan)	€ 232.60	UCHG Micro-costing study (unpublished)
COST OF TURP	€ 5,709.13	
HORMONE TREATMENT – YEAR 1		
Bicalutamide 50 mg 3 days before and for 3 weeks	€ 103.95	HSE Community Pharmacist- personal communication
Goserelin 3.6mg every 28 days	€ 1,914.00	HSE Community Pharmacist- personal communication
Goserelin implant 10.8mg every 12 weeks	€ 1,727.56	HSE Community Pharmacist- personal communication
Oncology Outpatient Appointment (initial)	€ 139.00	HSE Casemix (2012)
Oncology Outpatient Appointment (follow up) (2 annually)	€ 278.00	HSE Casemix (2012)
Diagnostic tests (blood and urine) (2 annually)	€ 129.56	Leal 2010
Imaging (MRI scan)	€ 232.60	UCHG Micro-costing study (unpublished)
GP Visit (3 annually)	€ 145.53	Drummond et al 2015
COST OF HORMONE TREATMENT- YEAR 1	€ 4,670.20	
HORMONE TREATMENT – YEAR 2-4		
Medication (3.6mg) [Goserelin]	€ 1,914.00	HSE Community Pharmacist- personal communication
Medication (10.8mg) [Goserelin]	€ 1,727.56	HSE Community Pharmacist- personal communication
Oncology Outpatient Appointment (follow up) (2 annually)	€ 278.00	HSE Casemix (2012)
Diagnostic tests (blood and urine) (2 annually)	€ 129.56	Leal 2010
GP Visit (2 annually)	€ 97.02	Drummond et al 2015
COST OF HORMONE TREATMENT- YEAR 2-4	€ 4,146.14	
CHEMOTHERAPY		
Docetaxel + prednisolone (3-weekly)	€ 11,277.82	Collins et al 2007
COST OF CHEMOTHERAPY - ANNUAL	€ 11,277.82	
PALLIATIVE/ TERMINAL CARE		
COST OF PALLIATIVE TERMINAL CARE IN PROSTATE CANCER	€ 6,958.17	Bourke et al 2014
TREATMENT COMPLICATIONS		
RP -COMPLICATIONS IN THE 1ST YEAR		
Requiring medical treatment	2.6%	British Association of Urological Surgeons (BAUS)- Report 2010
Requiring surgical treatment	1.0%	BAUS Report 2010

Cost medical treatment	€ 5,796.67	Collins et al 2007
Cost surgical treatment	€ 6,398.96	HSE Casemix (2012)
COST OF RP COMPLICATIONS- SHORT TERM	€ 212.99	
RP - COMPLICATIONS AFTER THE 1ST YEAR		
Urethral Stricture - short operation (excision)	3.4%	Leal 2010
Cost of excision	€ 3,765.00	HSE Casemix (2012)
Incontinence	13%	Leal 2010
Incontinence - pelvic floor muscle treatment	€ 315.61	Leal 2010
Impotence/ erectile dysfunction	45%	Leal 2010
Counselling (6 sessions)	€ 0.00	Offered free by charities
Drug - Sildenafil -25mg once a week - annual	€ 120.84	HSE PCRS Database
COST OF RP COMPLICATIONS- LONG TERM	€ 222.83	
TOTAL COST OF RP COMPLICATIONS	€ 435.82	
RT -COMPLICATIONS IN THE 1ST YEAR		
Incontinence	30%	Leal 2010
Incontinence - pelvic floor muscle treatment	€ 315.61	Leal 2010
COST OF RT COMPLICATIONS- SHORT TERM	€ 94.68	
RT - COMPLICATIONS AFTER THE 1ST YEAR		
Proctitis	6.6%	Leal 2010
Flexible sigmoidoscopy +colonoscopy, biopsy	€ 823.52	Hummel et al 2010
Laser therapy	€ 1,113.47	Hummel et al 2010
Enemas (2/day for 2weeks)	€ 708.45	Hummel et al 2010
Blood transfusion	€ 157.97	Hummel et al 2010
Incontinence - pelvic floor muscle treatment	13.6%	Leal 2010
pelvic floor muscle exercise treatment	€ 315.61	Leal 2010
Impotence/ erectile dysfunction	40.3%	Leal 2010
Counselling (6 sessions)	€ 0.00	Offered free by charities
Drug - Sildenafil -25mg once a week - 4 pack	€ 120.84	HSE PCRS Database
Urethral Stricture - short operation (TURP)	€ 3,765.00	HSE Casemix (2012)
Stricture Rate	3.4%	Leal 2010
COST OF RT COMPLICATIONS- LONG TERM	€ 404.66	
TOTAL COST OF RT COMPLICATIONS	€ 499.34	
HT -COMPLICATIONS IN THE 1ST YEAR		
Sexual dysfunction	71%	Aronson 1999
Cyproterone acetate 50mg/day - 56-pack (annual)	€ 587.21	HSE PCRS Database
Counselling (6 sessions) (free in Ireland)	€ 0.00	
Hot flashes	40%	Aronson 1999
DES 1mg/day for 2 weeks - 28 pack	€ 67.79	HSE PCRS Database
COST OF HT COMPLICATIONS- SHORT TERM	€ 444.69	
HT -COMPLICATIONS AFTER THE 1ST YEAR		

Fracture risk	22%	Taylor 2009
Fracture	€ 15,037.00	HSE Casemix 2012
CVD risk	4%	Aronson 1999
Acute or suspected non elective MI	€ 1,531.00	HSE Casemix (2012)
COST OF HT COMPLICATIONS- LONG TERM	€ 3,343.82	
TOTAL COST OF HT COMPLICATIONS	€ 3,788.51	