

Appendix 1. Mortality figures and crude, propensity score adjusted, and traditionally adjusted subdistribution hazard ratios for radiotherapy versus radical prostatectomy for prostate cancer- and other cause- mortality, stratified by year of diagnosis and risk group

	No. of events/Total no. (%)		Crude	p-value	Propensity-score	p-value	Traditional covariate	p-value
	RT	RP	sHR (95% CI) RT vs RP		adjusted sHR (95% CI) RT vs RP		adjusted sHR (95% CI) RT vs RP	
1996-1999								
Risk group 1								
Prostate cancer mortality	18/259 (6.9%)	19/716 (2.7%)	2.81 (1.47 to 5.39)	0.002	3.44 (1.72 to 6.87)	<0.001	NA	
Other cause mortality	39/259 (15.1%)	101/716 (14.1%)	1.11 (0.77 to 1.61)	0.566	0.81 (0.54 to 1.23)	0.332	0.80 (0.53 to 1.21)	0.294
Risk group 2								
Prostate cancer mortality	53/426 (12.4%)	52/711 (7.3%)	1.78 (1.22 to 2.62)	0.003	1.80 (1.22 to 2.65)	0.003	1.74 (1.15 to 2.64)	0.009
Other cause mortality	108/426 (25.4%)	100/711 (14.1%)	1.99 (1.52 to 2.62)	<0.001	1.75 (1.30 to 2.35)	<0.001	1.54 (1.10 to 2.15)	0.012
Risk group 3								
Prostate cancer mortality	181/792 (22.9%)	43/347 (12.4%)	1.98 (1.42 to 2.75)	<0.001	2.09 (1.46 to 3.00)	<0.001	2.10 (1.40 to 3.14)	<0.001
Other cause mortality	176/792 (22.2%)	59/347 (17.0%)	1.36 (1.01 to 1.82)	0.042	1.23 (0.89 to 1.70)	0.209	NA	
Non-metastatic (risk groups 1 to 3)								
Prostate cancer mortality	252/1477 (17.1%)	114/1774 (6.4%)	2.87 (2.30 to 3.57)	<0.001	2.08 (1.60 to 2.70)	<0.001	2.05 (1.57 to 2.67)	<0.001
Other cause mortality	323/1477 (21.9%)	260/1774 (14.7%)	1.58 (1.34 to 1.86)	<0.001	1.17 (0.96 to 1.44)	0.116	1.16 (0.95 to 1.41)	0.144
Risk group 4								

Prostate cancer mortality	52/178 (29.2%)	10/34 (29.4%)	0.98 (0.50 to 1.93)	0.950	0.70 (0.33 to 1.53)	0.373	NA	
Other cause mortality	38/178 (21.3%)	7/34 (20.6%)	1.05 (0.48 to 2.31)	0.903	0.91 (0.40 to 2.08)	0.822	NA	
2000-2004								
Risk group 1								
Prostate cancer mortality	11/1336 (0.8%)	19/3963 (0.5%)	1.58 (0.75 to 3.34)	0.228	1.41 (0.66 to 3.02)	0.375	1.46 (0.68 to 3.14)	0.334
Other cause mortality	141/1336 (10.6%)	226/3963 (5.7%)	1.81 (1.47 to 2.23)	<0.001	1.42 (1.12 to 1.79)	0.003	1.42 (1.12 to 1.80)	0.003
Risk group 2								
Prostate cancer mortality	77/1506 (5.1%)	63/2658 (2.4%)	2.05 (1.47 to 2.86)	<0.001	1.92 (1.31 to 2.82)	<0.001	1.96 (1.34 to 2.87)	<0.001
Other cause mortality	205/1506 (13.6%)	182/2658 (6.8%)	1.93 (1.58 to 2.36)	<0.001	1.43 (1.15 to 1.78)	0.001	1.42 (1.13 to 1.77)	0.002
Risk group 3								
Prostate cancer mortality	181/1999 (9.1%)	58/850 (6.8%)	1.32 (0.98 to 1.77)	0.062	1.12 (0.80 to 1.55)	0.513	1.18 (0.84 to 1.66)	0.343
Other cause mortality	233/1999 (11.7%)	62/850 (7.3%)	1.60 (1.21 to 2.12)	<0.001	1.39 (1.00 to 1.92)	0.049	1.38 (0.99 to 1.91)	0.059
Non-metastatic (risk groups 1 to 3)								
Prostate cancer mortality	269/4841 (5.6%)	140/7471 (1.9%)	2.88 (2.35 to 3.53)	<0.001	1.50 (1.17 to 1.93)	0.001	1.50 (1.17 to 1.92)	0.001
Other cause mortality	579/4841 (12.0%)	470/7471 (6.3%)	1.86 (1.65 to 2.10)	<0.001	1.46 (1.26 to 1.69)	<0.001	1.40 (1.22 to 1.62)	<0.001
Risk group 4								
Prostate cancer mortality	37/235 (15.7%)	19/143 (13.3%)	1.21 (0.70 to 2.09)	0.502	1.30 (0.69 to 2.47)	0.414	1.07 (0.53 to 2.18)	0.844
Other cause mortality	20/235 (8.5%)	23/143 (16.1%)	0.49 (0.27 to 0.88)	0.017	0.69 (0.34 to 1.43)	0.319	0.36 (0.12 to 1.11)	0.075
2005-2009								
Risk group 1								
Prostate cancer mortality	3/1444 (0.2%)	6/5324 (0.1%)	1.89 (0.47 to 7.57)	0.367	2.33 (0.42 to 12.83)	0.332	NA	
Other cause mortality	43/1444 (3.0%)	85/5324 (1.6%)	1.92 (1.33 to 2.78)	<0.001	1.15 (0.75 to 1.76)	0.526	1.08 (0.69 to 1.68)	0.734
Risk group 2								
Prostate cancer mortality	12/2098 (0.6%)	16/4756 (0.3%)	1.77 (0.84 to 3.74)	0.132	1.61 (0.70 to 3.70)	0.265	1.66 (0.71 to 3.87)	0.239
Other cause mortality	63/2098 (3.0%)	83/4756 (1.7%)	1.80 (1.29 to 2.49)	<0.001	1.15 (0.81 to 1.64)	0.423	1.19 (0.83 to 1.70)	0.350
Risk group 3								
Prostate cancer mortality	56/2249 (2.5%)	17/1412 (1.2%)	2.18 (1.27 to 3.76)	0.005	1.95 (1.05 to 3.62)	0.034	2.16 (1.14 to 4.08)	0.018
Other cause mortality	49/2249 (2.2%)	33/1412 (2.3%)	0.97 (0.62 to 1.50)	0.877	0.82 (0.46 to 1.46)	0.500	0.83 (0.46 to 1.49)	0.534

Non-metastatic (risk groups 1 to 3)								
Prostate cancer mortality	71/5791 (1.2%)	39/11492 (0.3%)	3.85 (2.60 to 5.70)	<0.001	1.93 (1.21 to 3.10)	0.006	1.90 (1.17 to 3.09)	0.009
Other cause mortality	155/5791 (2.7%)	201/11492 (1.7%)	1.62 (1.31 to 1.99)	<0.001	1.08 (0.83 to 1.41)	0.573	1.06 (0.82 to 1.36)	0.675
Risk group 4								
Prostate cancer mortality	13/404 (3.2%)	14/212 (6.6%)	0.67 (0.31 to 1.44)	0.305	0.57 (0.25 to 1.32)	0.189	NA	
Other cause mortality	7/404 (1.7%)	10/212 (4.7%)	0.43 (0.15 to 1.18)	0.100	1.01 (0.31 to 3.24)	0.990	NA	

List of abbreviations: RP–Radical prostatectomy, RT–Radiotherapy, sHR–Subdistribution hazard ratio, CI–Confidence interval.