

**Supplementary Table 1.** Baseline demographic and clinical characteristics according to prostate cancer diagnosis by age group

Variables	60-69			70-79			≥ 80		
	Non-PC (n=1,076,189)	PC (n=15,251)	p-value	Non-PC (n=489,609)	PC (n=9,875)	p-value	Non-PC (n=73,370)	PC (n=1,021)	p-value
Age (y)	63.9±2.9	64.6±2.8	<0.001	74.9±4.1	74.8±4.0	<0.001	82.8±3.1	82.1±2.9	<0.001
Alcohol consumption			<0.001			0.010			0.550
Non-high risk	888,741 (82.6)	12,817 (84.0)		433,982 (88.6)	8,835 (89.5)		69,095 (94.2)	957 (93.7)	
High risk	187,448 (17.4)	2,434 (16.0)		55,627 (11.4)	1,040 (10.5)		4,275 (5.8)	64 (6.3)	
Drinking days (wk)	1.6±2.1	1.6±2.0	<0.001	1.5±2.2	1.5±2.2	0.059	1.2±2.2	1.3±2.3	0.299
Daily drinking volume (cup)	4.9±4.1	4.8±4.0	<0.001	3.9±3.7	3.8±3.6	0.117	3.0±3.1	3.0±3.2	0.932
Smoking status			<0.001			<0.001			0.003
Non-smoker	403,153 (37.6)	6,065 (40.0)		222,398 (45.6)	4,619 (47.0)		38,739 (53.0)	554 (54.5)	
Ex-smoker	350,082 (32.7)	5,306 (35.0)		149,890 (30.7)	3,205 (32.6)		21,883 (29.9)	329 (32.4)	
Current smoker	318,583 (29.7)	3,810 (25.1)		115,524 (23.7)	2,011 (20.4)		12,491 (17.1)	134 (13.2)	
Smoking volume	16.6±7.7	16.5±7.4	0.382	13.6±7.3	13.8±7.4	0.338	10.8±7.0	11.3±7.9	0.504
Exercise (time)			<0.001			<0.001			<0.001
No	602,525 (56.6)	8,245 (54.6)		308,823 (63.8)	5,855 (59.9)		53,265 (73.4)	681 (67.4)	
1-2	186,538 (17.5)	2,735 (18.1)		64,353 (13.3)	1,391 (14.2)		8,292 (11.4)	137 (13.6)	
3-4	137,301 (12.9)	2,129 (14.1)		46,344 (9.6)	1,010 (10.3)		4,595 (6.3)	81 (8.0)	
≥ 5	138,972 (13.0)	1,988 (13.2)		64,857 (13.4)	1,511 (15.5)		6,461 (8.9)	112 (11.1)	
Hypertension			<0.001			<0.001			0.511
No	434,234 (55.4)	5,726 (50.9)		185,619 (48.7)	3,459 (44.5)		26,199 (46.5)	364 (45.3)	
Yes	349,644 (44.6)	5,524 (49.1)		195,628 (51.3)	4,314 (55.5)		30,148 (53.5)	439 (54.7)	
Diabetes			0.002			<0.001			0.257
No	638,559 (81.7)	9,278 (82.9)		306,796 (80.7)	6,401 (82.9)		47,606 (84.8)	688 (86.2)	
Yes	142,676 (18.3)	1,916 (17.1)		73,193 (19.3)	1,325 (17.1)		8,557 (15.2)	110 (13.8)	
Dyslipidemia			<0.001			<0.001			0.001
No	733,130 (93.9)	10,305 (92.1)		363,856 (95.9)	7,333 (95.0)		54,752 (97.6)	763 (95.7)	
Yes	47,394 (6.1)	879 (7.9)		15,646 (4.1)	384 (5.0)		1,366 (2.4)	34 (4.3)	
BMI (Mean ± SD)	24.0±2.8	24.3±2.7	<0.001	23.3±3.0	23.7±2.8	<0.001	22.3±3.0	23.0±2.9	<0.001
BMI (kg/m <sup>2</sup> )			<0.001			<0.001			<0.001
< 18.5	25,264 (2.3)	234 (1.5)		23,493 (4.8)	290 (2.9)		7,406 (10.1)	59 (5.8)	
18.5-24.9	662,410 (61.6)	9,075 (59.5)		326,880 (66.8)	6,378 (64.6)		52,054 (71.2)	714 (69.9)	
25.0-29.9	364,650 (33.9)	5,589 (36.7)		131,420 (26.9)	3,032 (30.7)		13,045 (17.8)	233 (22.8)	
≥ 30.0	23,472 (2.2)	347 (2.3)		7,435 (1.5)	170 (1.7)		607 (0.8)	15 (1.5)	
SBP (mmHg)	128.9±15.6	128.8±15.2	0.355	130.6±16.3	130.6±15.6	0.973	131.0±17.1	131.9±15.6	0.099
DBP (mmHg)	79.0±10.0	78.9±9.8	0.118	78.2±10.1	78.2±10.0	0.980	77.7±10.5	78.1±10.4	0.174
Fasting glucose (mg/dL)	105.8±29.8	104.3±25.7	<0.001	104.6±28.6	103.7±24.5	<0.001	103.2±27.8	102.3±24.5	0.245
Total cholesterol (mg/dL)	192.8±42.9	192.7±36.5	0.659	188.1±42.9	189.2±37.1	0.003	184.4±45.4	186.4±36.0	0.076
Waist circumference	85.1±8.2	85.9±12.4	<0.001	84.6±9.0	85.5±8.0	<0.001	83.0±9.1	84.4±8.2	<0.001
Triglyceride (mg/dL)	148.2±113.9	144.7±100.4	<0.001	136.9±94.5	136.7±88.9	0.873	123.0±78.1	124.1±99.2	0.711
HDL (mg/dL)	53.5±33.7	53.1±29.2	0.105	53.3±39.2	52.7±27.0	0.022	53.1±36.9	52.7±23.9	0.655
LDL (mg/dL)	113.4±73.8	114.1±94.8	0.369	111.0±70.5	111.3±45.8	0.424	110.0±67.2	109.5±33.6	0.682

PC, prostate cancer; BMI, body mass index; SBP, systolic blood pressure; DBP, diastolic blood pressure; HDL, high density lipoprotein; LDL, low density lipoprotein; SD, standard deviation.