

Supplementary material

Table s1: Adjusted MRRs^a and 95% CI for prostate cancer mortality in association with plasma PFOA and PFOS concentrations. Interaction with prognostic factors. Linear estimates per inter-quartile range.

	N cases/deceased	PFOA		PFOS	
Gleason score					
<7	248/79	0.96 (0.74-1.23)	0.34	0.85 (0.65-1.11)	0.50
≥7	270/170	1.10 (0.97-1.25)		1.02 (0.85-1.24)	
Missing	170/107	0.91 (0.70-1.18)		0.90 (0.69-1.19)	
T-stage					
1	144/46	1.02 (0.70-1.48)	0.25	1.03 (0.71-1.50)	0.61
2	135/47	1.11 (0.79-1.57)		0.84 (0.56-1.27)	
≥3	161/108	1.17 (0.93-1.47)		1.01 (0.80-1.27)	
Missing	248/155	0.91 (0.77-1.08)		0.85 (0.70-1.03)	
N-stage					
No lymph-node involvement	227/72	1.12 (0.86-1.45)	0.25	0.96 (0.69-1.33)	0.17
Lymph-node involvement	47/41	1.26 (0.90-1.73)		1.27 (0.90-1.80)	
Missing	414/243	0.97 (0.84-1.12)		0.88 (0.76-1.03)	
M-stage					
No metastases	356/152	0.97 (0.80-1.18)	0.22	0.99 (0.80-1.24)	0.63
Metastases	120/107	1.10 (0.98-1.23)		0.87 (0.70-1.09)	
Missing	212/97	0.89 (0.70-1.12)		0.87 (0.68-1.10)	
Primary initiated treatment					
None or conservative	105/46	0.83 (0.54-1.28)	0.42	0.95 (0.62-1.45)	0.36
Intended curative	287/80	0.89 (0.68-1.16)		0.79 (0.59-1.06)	
Palliative	222/190	1.09 (0.96-1.23)		1.05 (0.87-1.27)	
Missing	74/40	1.04 (0.77-1.41)		1.13 (0.78-1.62)	

Table s2: Sensitivity analysis: Adjusted MRRs and 95% CI in association with plasma PFOA and PFOS levels in bladder cancer cases, excluding cases diagnosed within two years after cohort entry.
Linear estimates per inter-quartile range (IQR) and categorical estimates above/below median.

	N cases/N deceased	MRR (95% CI) ^a	MRR (95% CI) ^b
PFOA			
Per IQR (3.55)	269/129	0.66 (0.52-0.83)	0.72 (0.57-0.91)
<i>Below median</i>	110/64	1.00 (ref.)	1.00 (ref.)
<i>Above median</i>	169/55	0.57 (0.40-0.81)	0.64 (0.44-0.62)
PFOS			
Per IQR (17.7)	269/129	0.60 (0.46-0.78)	0.71 (0.53-0.5)
<i>Below median</i>	160/65	1.00 (ref.)	1.00 (ref.)
<i>Above median</i>	109/64	0.53 (0.38-0.76)	0.68 (0.46-1.020)

^aAdjusted for calendar-year of diagnosis, and stratified by age at diagnosis in 5-year age-groups and sex (for bladder cancer only)

^bAdjusted for calendar-year of diagnosis, smoking status (never/former/current/missing), alcohol consumption (g/day, among drinkers), abstainer (yes/no), waist circumference (cm), leisure-time sports (yes/no/missing), education (low/medium/high/missing), area-level socio-economic status (low/medium/high/missing), and stratified by age at diagnosis in 5-year age-groups and sex (for bladder cancer only)