

**Supplementary material**

**Table S1. A copy of the questionnaire translated from Swedish.**

After the biopsy, did you notice (circle your answer)

1. Fever above 38°C?                      YES      NO
2. Increased problems with discharge of urine      YES      NO  
urgency, burning sensation of pain?

The following question are only to be completed if you answered YES to question 1 or 2.

3. Did you see a doctor for these symptoms?      YES      NO
4. Did you receive antibiotics for your symptoms?      YES      NO
5. What antibiotics?.....  
For how many days?.....

6. Were you admitted to a hospital?                      YES      NO

if YES, where?.....and when?.....

**Table S2.** Logistic regression model of the primary outcome.

	Bivariate		Multivariate		
	Outcome	OR (95% CI)	<i>p</i>	OR (95% CI)	<i>p</i>
<b>Age</b>	-	0.99 (0.97-1.01)	.16	0.99 (0.97-1.01)	.19
<b>Time Period</b>					
2003-2007	33/2218 (1.5%)	1		1	
2008-2012	51/2798 (1.8%)	1.23 (0.80-1.93)	.36	1.20 (0.74 – 1.98)	.47
2013-2017	103/3957 (2.6%)	1.77 (1.21-2.67)	<b>.005</b>	1.78 (1.14 – 2.87)	<b>.01</b>
<b>PSA</b>					
< 3	10/494 (2.1%)	0.84 (0.41-1.54)	.61	1.02 (0.47 – 1.94)	.95
3-10	111/5258 (2.0%)	1		1	
10-20	37/1817 (2.0%)	0.97 (0.65 – 1.41)	.88	1.03 (0.69 – 1.52)	.88
>20	29/1387 (2.1%)	0.95 (0.60 – 1.43)	.81	1.32 (0.80 – 2.11)	.26
<b>Volume</b>					
0-40	77/4355 (1.8%)	1		1	
40-100	95/4143 (2.3%)	1.30 (0.96-1.77)	.09	1.28 (0.94 – 1.77)	.12
≥100	10/298 (3.4%)	1.93 (0.93-3.59)	.054	1.88 (0.88 – 3.64)	.08
<b>Biopsy cores</b>					
0-6	25/1825 (1.4%)	1		1	
7-10	117/5444 (2.2%)	1.58 (1.04 – 2.50)	<b>.04</b>	1.48 (0.91 – 2.51)	.13
≥11	44/1696 (2.6%)	1.92 (1.18 – 3.19)	<b>.01</b>	1.51 (0.85 – 2.72)	.17
<b>Prophylaxis</b>					
Standard	148/7141(2.1%)	1		1	
Prolonged/other	38/1795 (2.1%)	1.02 (0.70 – 1.45)	.91	0.91(0.62 – 1.32)	.64
<b>Repeated biopsy</b>					
first	142/6507 (2.2%)	1		1	
repeated	45/2466 (1.8%)	0.83 (0.59 – 1.16)	.29	0.74 (0.51 – 1.04)	.09
<b>PSA density</b>					
<0.10	35/1347 (2.6%)	ref		NA	
0.10 – 0.15	46/1845 (2.5%)	0.96 (0.62 – 1.50)	0.85	NA	
> 0.15	101/5595 (1.8%)	0.69 (0.47 – 1.03)	0.06	NA	

**Table S3.** Results of the questionnaires during the study period 2003–2017.

	<i>no infection, n = 8786</i>	<i>infection, n = 187</i>
Questionnaires submitted	4786 (55%)	109 (58%)
Side effect reported*	887 (17%)	102 (94%)
Fever*	114 (2%)	88 (81%)
Urinary urgency*	413 (8%)	64 (55%)
Saw a doctor within 2 weeks*	142 (3%)	89 (76%)
Prescribed additional antibiotics*	122 (2%)	82 (70%)

\* The denominator for percentage is submitted questionnaires

**Table S4.** Subgroup analysis of the final period 2013-2017 divided into two terms.

	<b>2013-2014</b>	<b>2015-2017</b>
<b>Biopsies performed, n</b>	1696	2261
<b>Blood culture taken (%)</b>	55 (3)	65 (3)
- Positive blood	29 (2)	26 (1)
<b>Urine culture taken (%)</b>	57 (3)	83 (4)
- Positive urine	18 (1,0)	30 (1,3)
<b>Age, median years (range)</b>	67 (28-96)	67 (31-95)
<b>Prophylaxis, n (%)</b>		
Single dose ciprofloxacin	1354 (80)	1597 (71)
Extended course of ciprofloxacin	313 (19)	629 (28)
Other type of antibiotic	29 (2)	35 (2)
Missing, n	-	-
<b>Positive nitrite, n (%)</b>	33 (1)	32 (1)
Missing, n	-	-
<b>PSA level, median µg/l (range)</b>	7.70 (0.11-23666)	7.1 (0.1-17000)
Missing, n	-	2
<b>Volume of prostate, median ml (range)</b>	39 (1-300)	42 (1-999)
Missing, n	30	43
<b>T-Stage, n (%)</b>		
T0/T1	1198 (71)	1453 (64)
T2-T4	498 (29.4)	808 (36)
Missing, n	-	-
<b>Biopsies cores taken, median (range)</b>	10 (1-18)	10 (1-22)
Missing, n	-	1

**Figure S1.** Annual trends for total number of biopsies, covariates and the primary outcome (blood and/or urine positivity rate). *p* values are from Mann-Kendall tests for continuous variables and from Cochran-Armitage tests for proportions.

