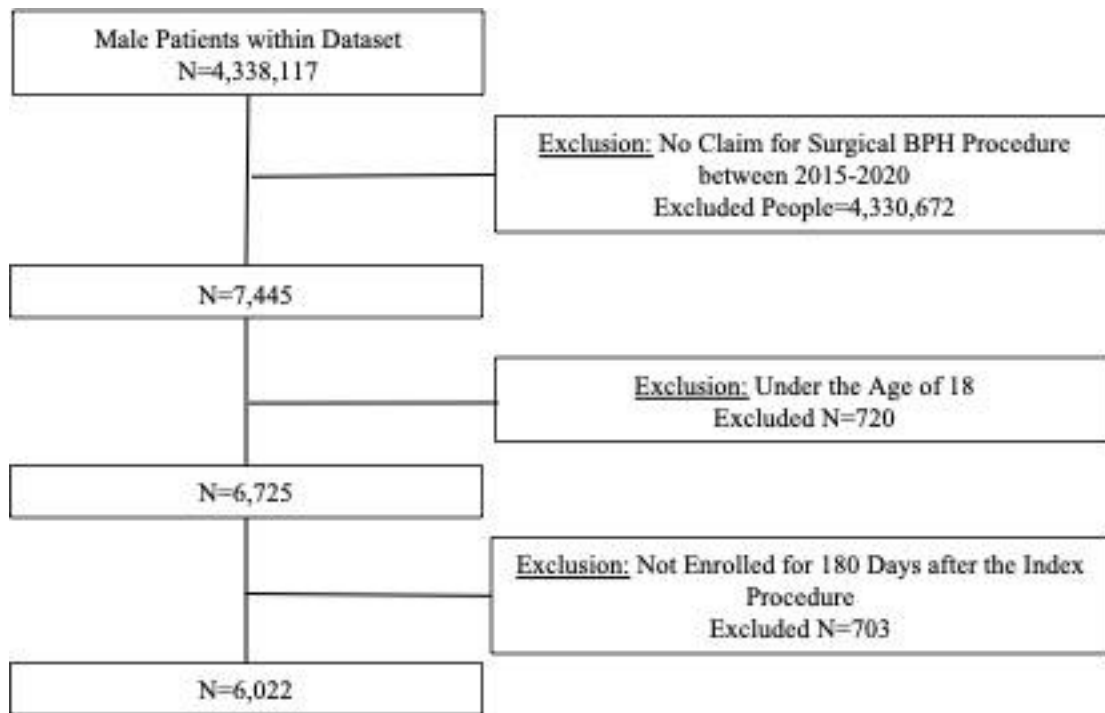
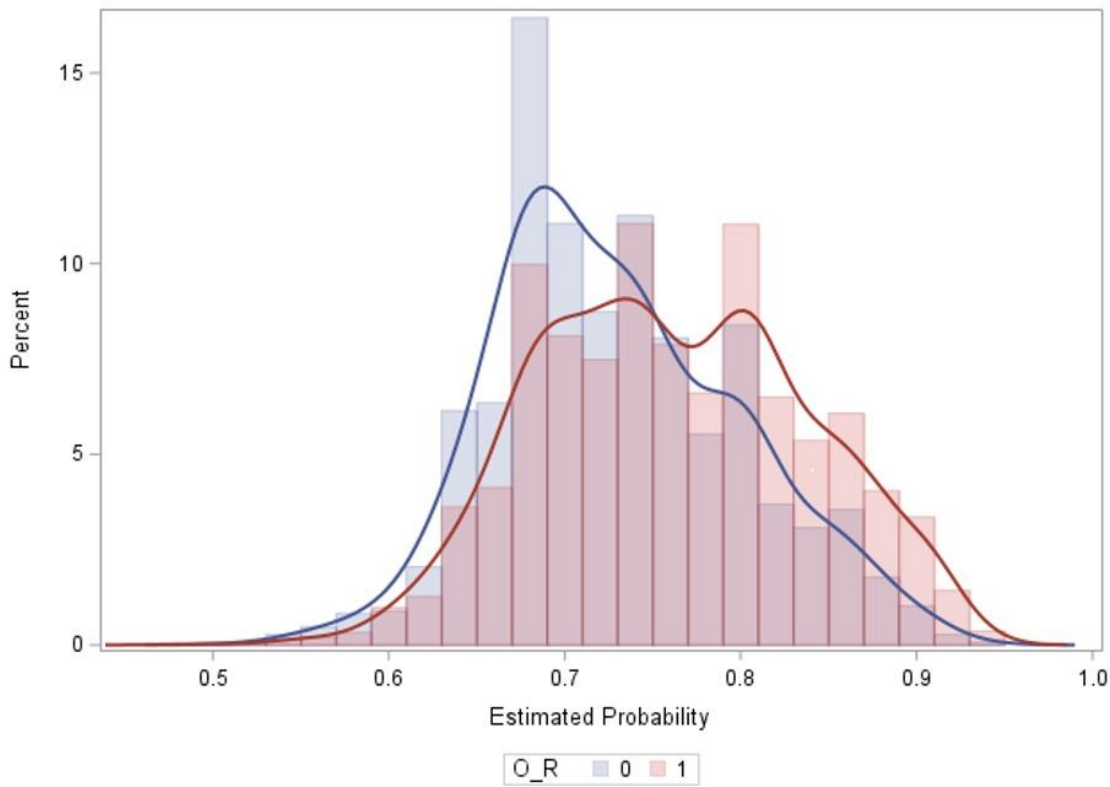


**APPENDIX**

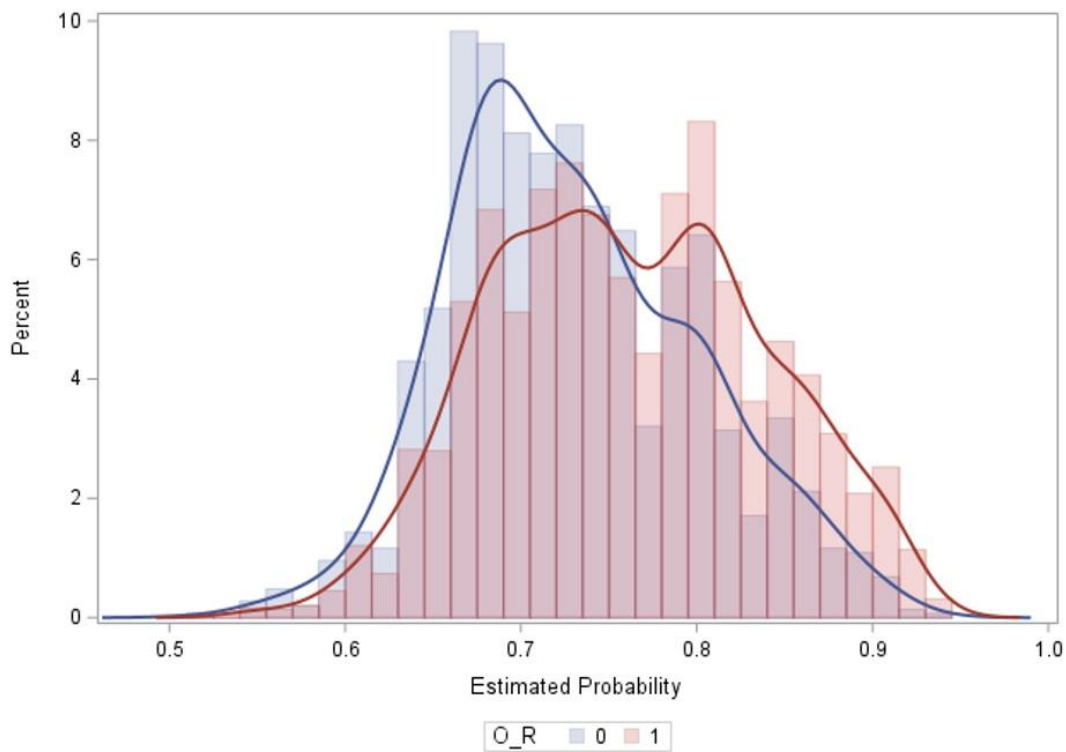
**Supplementary Figure 1. CONSORT diagram.**



Supplementary Figure 2. Distribution of propensity scores prior to IPTW.



Supplementary Figure 3. Distribution of propensity scores prior to IPTW and after trimming non-overlapping regions.



<b>Supplementary Table 1. Demographics prior to and following IPTW weighting</b>				
	<b>Overall sample prior to IPTW weighting</b>		<b>IPTW weighted sample</b>	
	<b>OR procedure (n=4549)</b>	<b>Non-OR procedure (n=1473)</b>	<b>OR procedure (n=4473)</b>	<b>Non-OR procedure (n=1463)</b>
<b>Age, mean (SD)</b>				
18–45	42 (0.76%)	17 (1.15%)	42 (0.94%)	14 (0.97%)
46–55	258 (4.28%)	103 (6.99%)	269 (6.02%)	91 (6.25%)
56–65	1372 (22.78%)	391 (26.54%)	1298 (29.01%)	424 (28.98%)
>65	2877 (47.77%)	962 (65.31%)	2864.5 (64.04%)	933 (63.79%)
<b>Region, n (%)</b>				
Midwest	1296 (28.94%)	395 (26.99%)	1197 (26.76%)	395 (26.99%)
Northeast	798 (17.62%)	253 (17.33%)	784 (17.54%)	253 (17.33%)
South	1051 (23.47%)	344 (23.55%)	1053 (23.54%)	344 (23.55%)
West	1342 (29.97%)	470 (32.13%)	1439 (32.16%)	470 (32.13%)
<b>Comorbidities, n (%)</b>				
<b>Pain</b>				
Pelvic	104 (2.29%)	40 (2.72%)	107 (2.38%)	37 (2.55%)
Head	327 (7.19%)	136 (9.23%)	324 (7.25%)	128 (8.76%)
Neck	600 (13.19%)	273 (18.53%)	602 (13.47%)	272 (18.61%)
Back	1249 (27.46%)	513 (34.83%)	1249 (27.92%)	518 (35.41%)
Neuropathic	100 (2.20%)	42 (2.85%)	101 (2.25%)	41 (2.83%)
Arthritis	193 (4.24%)	79 (5.36%)	192 (4.30%)	75 (5.14%)
Rheumatologic	129 (2.84%)	35 (2.38%)	132 (2.95%)	30 (2.08%)
<b>Urologic</b>				
Prostatitis	959 (21.08%)	153 (10.39%)	829 (18.54%)	270 (18.43%)
Urinary retention	2529 (55.59%)	448 (30.41%)	2472 (55.27%)	459 (31.40%)
<b>Mental health</b>				
Psychotic disorders	37 (0.81%)	11 (0.75%)	36 (0.80%)	14 (0.98%)
Bipolar-related disorders	61 (1.34%)	17 (1.15%)	58 (1.30%)	18 (1.23%)
Depressive disorders	522 (11.48%)	183 (12.42%)	520 (11.63%)	174 (11.91%)
Anxiety disorders	517 (11.37%)	175 (11.88%)	517 (11.57%)	179 (12.27%)
Trauma and stress-related disorders	135 (2.97%)	48 (3.26%)	135 (3.02%)	45 (3.10%)
Dementias	221 (4.86%)	74 (5.02%)	223 (4.98%)	73 (4.99%)
Other	272 (5.98%)	113 (7.67%)	272 (6.07%)	115 (7.87%)
<b>Substance use</b>				
Alcohol	105 (2.31%)	46 (3.12%)	108 (2.42%)	38 (2.61%)

Opioid	41 (0.90%)	19 (1.29%)	42 (0.95%)	15 (0.99%)
Other, non-opioid substance	492 (10.82%)	115 (7.81%)	450 (10.06%)	143 (9.79%)
<b>Other common comorbidities</b>				
Diabetes mellitus	1312 (28.84%)	432 (29.33%)	1298 (29.02%)	426 (29.15%)
Cardiovascular	4547 (99.96%)	1473 (100%)	4471 (99.95%)	1463 (100%)
Hematologic	828 (18.20%)	245 (16.63%)	826 (18.46%)	241 (16.53%)
Respiratory	1364 (29.98%)	482 (32.72%)	1377 (30.78%)	449 (30.69%)
Gastrointestinal	962 (21.15%)	343 (23.29%)	976 (21.81%)	321 (21.96%)
Cancer	2352 (51.70%)	778 (52.82%)	2326 (52.00%)	763 (52.19%)
<b>Medication, n (%)</b>				
Alfuzosin	85 (1.87%)	39 (2.65%)	91 (2.04%)	28 (1.94%)
Doxazosin	62 (1.36%)	31 (2.10%)	62 (1.38%)	29 (2.01%)
Silodosin	49 (1.08%)	21 (1.43%)	50 (1.12%)	22 (1.47%)
Tamsulosin	967 (21.26%)	291 (19.76%)	936 (20.93%)	303 (20.73%)
Psychotropic	279 (6.13%)	82 (5.57%)	269 (6.02%)	88 (6.03%)
Opioid	1891 (41.57%)	600 (40.73%)	1852 (41.41%)	606 (41.46%)

<b>Supplementary Table 2. Standardized differences after IPTW</b>	
<b>Variable name</b>	<b>Standardized differences</b>
Age category	0.0000
Census region	0.0298
Pelvic pain	-0.0107
i_ProstT	0.0030
i_Anxiety	-0.0217
i_Demographics	-0.0002
i_Alcohol	-0.0118
i_Opioid	-0.0047
i_Non-opioid	0.0090
i_Resp_Condition	0.0019
i_Cancer	-0.0038
i_Gastro_Condition	-0.0035
Opioid	-0.0010
Psychotropic	-0.0008
Alfuzosin	0.0068
Tamsulosin	0.0050
Terazosin	-0.0005

Supplementary Table 3. Results from sensitivity analyses													
		Strength of odds ratio between exposure and the unmeasured confounder											
		1.2	1.3	1.5	1.8	2.0	2.5	3.0	4.0	5.0	6.0	8.0	10.0
Strength of odds ratio between the unmeasured confounder and the outcome	1.2	1.87 (1.64, 2.12)	1.85 (1.63, 2.1)	1.82 (1.6, 2.06)	1.78 (1.56, 2.02)	1.76 (1.55, 2)	1.73 (1.52, 1.97)	1.71 (1.5, 1.94)	1.68 (1.48, 1.91)	1.67 (1.46, 1.89)	1.66 (1.46, 1.88)	1.64 (1.44, 1.87)	1.63 (1.44, 1.86)
	1.3	1.85 (1.63, 2.1)	1.82 (1.6, 2.07)	1.77 (1.56, 2.02)	1.72 (1.52, 1.96)	1.7 (1.5, 1.93)	1.66 (1.46, 1.88)	1.63 (1.43, 1.85)	1.59 (1.4, 1.81)	1.57 (1.38, 1.78)	1.55 (1.37, 1.76)	1.53 (1.35, 1.74)	1.52 (1.34, 1.73)
	1.5	1.82 (1.6, 2.06)	1.77 (1.56, 2.02)	1.71 (1.5, 1.94)	1.64 (1.44, 1.86)	1.6 (1.41, 1.82)	1.54 (1.35, 1.75)	1.49 (1.31, 1.7)	1.44 (1.27, 1.64)	1.41 (1.24, 1.6)	1.39 (1.22, 1.58)	1.36 (1.2, 1.55)	1.35 (1.18, 1.53)
	1.8	1.78 (1.56, 2.02)	1.72 (1.52, 1.96)	1.64 (1.44, 1.86)	1.54 (1.36, 1.75)	1.49 (1.31, 1.7)	1.41 (1.24, 1.6)	1.35 (1.19, 1.54)	1.28 (1.13, 1.46)	1.24 (1.09, 1.41)	1.21 (1.06, 1.38)	1.17 (1.03, 1.34)	1.15 (1.01, 1.31)
	2.0	1.76 (1.55, 2)	1.7 (1.5, 1.93)	1.6 (1.41, 1.82)	1.49 (1.31, 1.7)	1.44 (1.27, 1.64)	1.35 (1.18, 1.53)	1.28 (1.13, 1.46)	1.2 (1.06, 1.37)	1.15 (1.01, 1.31)	1.12 (0.99, 1.27)	1.08 (0.95, 1.23)	1.06 (0.93, 1.2)
	2.5	1.73 (1.52, 1.97)	1.66 (1.46, 1.88)	1.54 (1.35, 1.75)	1.41 (1.24, 1.6)	1.35 (1.18, 1.53)	1.23 (1.08, 1.4)	1.15 (1.01, 1.31)	1.06 (0.93, 1.2)	1 (0.88, 1.14)	0.96 (0.85, 1.09)	0.91 (0.8, 1.04)	0.88 (0.78, 1.01)
	3.0	1.71 (1.5, 1.94)	1.63 (1.43, 1.85)	1.49 (1.31, 1.7)	1.35 (1.19, 1.54)	1.28 (1.13, 1.46)	1.15 (1.01, 1.31)	1.07 (0.94, 1.21)	0.96 (0.85, 1.09)	0.9 (0.79, 1.02)	0.85 (0.75, 0.97)	0.8 (0.7, 0.91)	0.77 (0.68, 0.87)
	4.0	1.68 (1.48, 1.91)	1.59 (1.4, 1.81)	1.44 (1.27, 1.64)	1.28 (1.13, 1.46)	1.2 (1.06, 1.37)	1.06 (0.93, 1.2)	0.96 (0.85, 1.09)	0.84 (0.74, 0.96)	0.77 (0.68, 0.87)	0.72 (0.63, 0.82)	0.66 (0.58, 0.75)	0.62 (0.55, 0.71)
	5.0	1.67 (1.46, 1.89)	1.57 (1.38, 1.78)	1.41 (1.24, 1.6)	1.24 (1.09, 1.41)	1.15 (1.01, 1.31)	1 (0.88, 1.14)	0.9 (0.79, 1.02)	0.77 (0.68, 0.87)	0.69 (0.61, 0.79)	0.64 (0.56, 0.73)	0.58 (0.51, 0.66)	0.54 (0.47, 0.61)
	6.0	1.66 (1.46, 1.88)	1.55 (1.37, 1.76)	1.39 (1.22, 1.58)	1.21 (1.06, 1.38)	1.12 (0.99, 1.27)	0.96 (0.85, 1.09)	0.85 (0.75, 0.97)	0.72 (0.63, 0.82)	0.64 (0.56, 0.73)	0.59 (0.52, 0.67)	0.52 (0.46, 0.59)	0.48 (0.42, 0.55)
	8.0	1.64 (1.44, 1.87)	1.53 (1.35, 1.74)	1.36 (1.2, 1.55)	1.17 (1.03, 1.34)	1.08 (0.95, 1.23)	0.91 (0.8, 1.04)	0.8 (0.7, 0.91)	0.66 (0.58, 0.75)	0.58 (0.51, 0.66)	0.52 (0.46, 0.59)	0.45 (0.4, 0.51)	0.41 (0.36, 0.46)
	10.0	1.63 (1.44, 1.86)	1.52 (1.34, 1.73)	1.35 (1.18, 1.53)	1.15 (1.01, 1.31)	1.06 (0.93, 1.2)	0.88 (0.78, 1.01)	0.77 (0.68, 0.87)	0.62 (0.55, 0.71)	0.54 (0.47, 0.61)	0.48 (0.42, 0.55)	0.41 (0.36, 0.46)	0.37 (0.32, 0.42)

■ Odds ratios where the association is not significant.

■ Odds ratios where the association is protective