

## Supplementary Material

**Table S1.** Summary of the search strategy

Database	Search Strategy	Records
PubMed	<p>"Prostate-Specific Antigen"[Mesh] OR "PSA screening"[tiab] OR "prostate cancer screening"[tiab]) AND ("Prostatectomy"[Mesh] OR "prostate biopsy"[tiab], OR "biopsy"[tiab], OR "surgical complications"[tiab] OR "surgery"[tiab] OR "adverse outcomes"[tiab] OR "overtreatment"[tiab] OR "unnecessary treatment"[tiab]) AND ("Mortality"[Mesh] OR "Survival Rate"[Mesh] OR "overall survival"[tiab] OR "all-cause mortality"[tiab] OR "cancer-specific mortality" [tiab]) AND "40 years and older" [tiab] AND ("Prostatic Neoplasms/diagnosis"[Mesh:noexp] NOT "Prostatic Neoplasms/prevention and control"[Mesh]) AND ("cohort studies"[Mesh] OR "observational study"[tiab] OR "comparative study"[tiab] OR "retrospective study"[tiab])</p>	69
Web of Science Core Collection (hereafter called Web of Science)	<p>("Prostate-Specific Antigen"[Mesh] OR "PSA"[tiab] OR "PSA screening"[tiab] OR "prostate cancer screening"[tiab]) AND ("Mass Screening"[Mesh] OR "Screening"[tiab] OR "Early Detection of Cancer"[Mesh]) AND ("Biopsy"[Mesh] OR "prostate biopsy"[tiab]) AND ("complications"[tiab] OR "infection"[tiab] OR "urinary incontinence"[tiab] OR "sexual dysfunction"[tiab] OR "hematuria"[tiab] OR "rectal bleeding"[tiab] OR "discomfort"[tiab] OR "overdiagnosis"[tiab] OR "false positive"[tiab] OR "unnecessary treatment"[tiab] OR "mortality"[MeSH] OR "cancer-specific mortality"[tiab]) AND ("Middle Aged"[Mesh] OR "Aged"[Mesh] OR "Aged, 80 and over"[Mesh] OR "Humans"[Mesh]) AND ("Randomized Controlled Trial"[Publication Type] OR "Randomized"[tiab] OR "Randomised"[tiab] OR "Clinical</p>	218

	<p>Trial"[Publication Type] OR "Observational Study"[Publication Type] OR "Cohort Studies"[Mesh] OR "Case-Control Studies"[Mesh]) AND ("2000/01/01"[Date - Publication] : "3000"[Date - Publication])</p>	
<p>Scopus</p>	<p>( TITLE-ABS-KEY ( "prostate-specific antigen" OR psa OR "psa screening" OR "prostate cancer screening" ) ) AND ( TITLE-ABS-KEY ( "mass screening" OR screening OR "early detection of cancer" ) ) AND ( TITLE-ABS-KEY ( biopsy OR "prostate biopsy" ) ) AND ( TITLE-ABS-KEY ( complications OR infection OR "urinary incontinence" OR "sexual dysfunction" OR hematuria OR "rectal bleeding" OR discomfort OR overdiagnosis OR "false positive" OR "unnecessary treatment" OR mortality OR "cancer-specific mortality" ) ) AND ( TITLE-ABS-KEY ( "middle aged" OR aged OR humans ) ) AND ( TITLE-ABS-KEY ( "randomized controlled trial" OR randomized OR randomised OR "clinical trial" OR "observational study" OR "cohort study" OR "case-control study" ) ) AND ( PUBYEAR &gt; 1999 ) AND PUBYEAR &gt; 2014 AND PUBYEAR &lt; 2026</p>	<p>88</p>

**Table S2.** Screen Title, Abstract, and Text

**S2a.** Screen Title and Abstract

<b>Reviewer</b>	<b>Contribution</b>
LT	259
TG	106
DO	81
CMS	69
VD	63
FS	57
SC	55
TR	53
WM	43
TM	38
ASdM	29
MA	25
MR	20
VMA	15
WG	10
LP	6
SA	3
MC	3
LJPZ	3
CQ	2
Total	940

**S2b. Screen Text**

<b>Reviewer</b>	<b>Contribution</b>
TG	134
LT	48
DO	45
CQ	45
FS	37
WM	33
CMS	29
ASdM	24
LJPZ	21
VD	21
MR	14
MA	14
TR	13
Total	478