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Supplementary table 1:

Codebook:

<i>Registry</i>	<i>Description</i>	<i>Code</i>	
<i>The Danish National Patient Registry (DNPR)</i>	Diagnose codes:	The International Classification of Diseases, 10th Edition (ICD-10)	
	Cancer of the urinary bladder	DC67*	
	Carcinoma in situ in the urinary bladder	DD090	
	Non-invasive papillary tumor (Ta) in the urinary bladder	DD095	
	Neoplasm of low malignant potential (PUNLMP)	DD303	
	Other allowed cancer diagnoses:		
	Prostate cancer	DC619	
	Non-melanoma skin cancer	DC44*	
	Smoking-related comorbidity:		
	Chronic obstructive pulmonary disease	DJ43* DJ44*	
	Atherosclerosis and/or Aneurysm	DI70* DI71*	
	Heart Disease: Angina pectoris, unstable angina pectoris, AMI and chronic ischemic heart disease	DI20* DI21* DI22* DI23* DI24* DI25*	
	Procedure codes:		
	Cystoscopy	KUKC02	
	Cystoscopy with biopsy	KUKC05	
	Transurethral resection of the bladder (TURB)	KKCD32*	
	Use of fluorescence (including Photodynamic Diagnosis: PDD)	KZXF45 (additional code)	
	Bacillus Calmette-Guerin vaccine (BCG) instillation in the urinary bladder	BJHE11	
	Instillation of cytostatic in the bladder	BJHE12	
	Instillation of mitomycin C (MMC) in the bladder	BJHE12A	
	Cystectomy	KKCC*	
	Radiotherapy	BWGC*	
	Chemotherapy	BWHA*	
	<i>Danish Pathology Registry (DPR)</i>	Pathological description of neoplastic lesions of the urinary bladder	SNOMED codes
		Urinary bladder	T74*
		Urothelial carcinoma in situ	M81202
		Urothelial carcinoma	M81203
		PUNLMP	M81301
		Grade:	
		Low grade (Corresponds Bergkvist classification ÆYYY11 and ÆYYY12)	ÆYY111
		High grade (Corresponds Bergkvist classification ÆYYY13 and ÆYYY14)	ÆYY113
		pTNM stage:	

	pTis	ÆF1810
	pTa	ÆF181a
	pT1	ÆF1830
	pT1a (Danish sub-classification of pT1)	ÆF1831
	pT1b (Danish sub-classification of pT1)	ÆF1832
	pT2	ÆF1840
	pT2a	ÆF1841
	pT2b	ÆF1842
	pT3	ÆF1850
	pT4a	ÆF1861
	pT4b	ÆF1862
<i>Cause of death register (DAR)</i>	“Direct cause of death” or “Contributing cause of death”	ACME (Automated Classification of Medical Entities) via ICD-10
	Bladder cancer	B-027