

Supplementary Files

Supplementary Tables

Table S1. Utilized definitions of study population, covariates and outcome events

Description	Adopted codes ^a
<i>Study Population</i>	
Osteoarthritis	ICD-10-CM: M15-M19
<i>Procedures</i>	
Total knee replacement	ICD-10-PCS ^b : 0SRD0JZ, 0SRC0JZ, 0SRW0JZ, 0SRV0JZ, 0SRU0JZ, 0SRT0JZ, 0SRD07Z, 0SRD0KZ, 0SRU07Z, 0SRU0KZ, 0SRW07Z, 0SRW0KZ, 0SRC0KZ, 0SRT07Z, 0SRT0KZ, 0SRV0KZ
<i>Confounding factors and comorbidities</i>	
Neoplasms	ICD-10-CM: C00-D49
Diabetes mellitus	ICD-10-CM: E08-E13
Hypertension	ICD-10-CM: I10
Systemic lupus erythematosus	ICD-10-CM: M32
Mental and behavioral disorders due to psychoactive substance use	ICD-10-CM: F10-F19
Problems related to education and literacy	ICD-10-CM: Z55
Problems related to employment and unemployment	ICD-10-CM: Z56
Occupational exposure to risk factors	ICD-10-CM: Z57
Problems related to housing and economic circumstances	ICD-10-CM: Z59
<i>Co-Medications</i>	
Corticosteroids	ATC code: R01AD

Non-steroidal anti-inflammatory analgesics	VA code: CN104
Cyclosporine	RxNorm:3008
Aminoglycosides	VA code:AM300
Penicillins and beta-lactam antimicrobials	VA code: AM114
<i>Outcomes</i>	
Acute kidney injury	ICD-10-CM: N17
Chronic kidney disease	ICD-10-CM: N18

^aICD-10-CM: International Classification of Diseases, Tenth Revision, Clinical Modification

^bICD-10-PCS: International Classification of Diseases, Tenth Revision, Procedure Coding System

Table S2. Description of applied sensitivity analysis models

Models	Description	Corresponding figures
Applying different follow-up time after index date		
10 years /15 years after index date	Only events related to outcomes that occur during the established follow-up timeframe will be considered in the analysis. Additionally, each sub-analysis included a consistent three-month washout period.	Figures 2 and 4
Applying different wash-out period after index date		
12 months/24 months/36 months after index date	Outcome events that arise within the specified washout timeframe will not be considered in the analysis. Furthermore, a uniform follow-up span of 15 years was applied to each sub-analysis.	Figures 2 and 4
Applying different matching covariates		
Crude model	The analysis was conducted without the use of propensity score matching.	Figures 2 and 4
Matching model 1	The variables considered for matching were age at the time of index, sex, and racial background.	
Matching model 2	The variables considered for matching were age at the time of index, sex, racial background, substance abuse, socioeconomic issues	