Supplementary Files

Supplementary Tables

 Table S1. Utilized administrative codes in the current study

Description	ICD-10-CM codes ^a			
Hidradenitis suppurativa	L73.2			
Neoplasms	C00-D49			
Acute kidney injury	N17			
Chronic kidney disease	N18			
End-stage renal disease	N18.6			
Diabetes mellitus	E08-E13			
Hypertension	110			
Hyperlipidemia	E78.5			
Systemic lupus erythematosus	M32			
Health hazards related to socioeconomic and psychosocial	Z55-Z65			
circumstances				
Encounter for health examinations	Z00			
Substance abuse	F10-F19			
Medications	RxNorm/VA/ATC code			
Penicillins and beta-lactam antimicrobials	VA: AM114			
Aminoglycosides	VA: AM300			
Corticosteroids	ATC code: D07			
Methotrexate	RxNorm: 6851			

Cyclosporine	RxNorm: 3008
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^aICD-10-CM: International Classification of Diseases, Tenth Revision, Clinical Modification

Outcomes	Hazard ratio (95% Confidence interval)				
	Crude	Model 1 ^a	Model 2 ^b	Model 3 ^c	
Acute kidney injury	1.53 (1.42,1.65)	2.14 (1.88,2.44)	1.72 (1.52,1.94)	1.99 (1.75,2.26)	
Chronic kidney disease	0.91 (0.84,0.99)	1.64 (1.43,1.87)	1.34 (1.18,1.52)	1.63 (1.43,1.85)	
End-stage renal disease	1.21 (0.90,1.636)	1.21 (0.77,1.90)	0.94 (0.62,1.43)	1.26 (0.80,1.98)	

Table S2. Sensitivity analysis: risk of renal diseases in HS patients based on different covariate matching models, with 5-year follow up

^b Propensity score matching was performed on age at index, sex, race and BMI

^b Propensity score matching was performed on age at index, sex, race and comorbidities

° Propensity score matching was performed on age at index, sex, race and eGFR

^d Propensity score matching was performed on age at index, sex, race, medical utilization status and socioeconomic status

Outcomes	Hazard ratio (95% Confidence interval) ^b				
Outcomes	12 months	24 months	36 months		
Acute kidney injury	1.41 (1.25,1.59)	1.39 (1.22,1.59)	1.44 (1.24,1.67)		
Chronic kidney disease	1.27 (1.12,1.43)	1.23 (1.08,1.41)	1.26 (1.10,1.46)		
End-stage renal disease	1.15 (0.74,1.79)	1.05 (0.65,1.69)	1.06 (0.64,1.75)		

Table S3. Sensitivity analysis: risk of renal diseases with different wash-out periods ^a

^a Incident events occurred within each wash-out period were excluded in the corresponding analysis, following up for 5 years after index date

^b Propensity score matching was performed on age at index, sex, race, body mass index, status of comorbidities (including diabetes mellitus, hypertension, systemic lupus erythematosus), status of comedication use (antibiotics, corticosteroids and immunomodulators), status of smoking, alcoholism and substance use, medical utilization status, lab data regarding renal function status (creatine, blood urea nitrogen, eGFR) and socioeconomic status (problems related to housing and economic circumstances, persons with potential health hazards related to socioeconomic and psychosocial circumstances).

Table S4.	Sensitivity	analysis	risk of re	enal diseases	comparing	with	nsoriasis	natients ^a
Table 54.	Sensitivity	unary sis.	TISK OF IC	mai discuses	comparing	VV IUII	psoriasis	patients

Outcomes	Hazard ratio (95% Confidence interval) ^b
Acute kidney injury	1.24 (1.10,1.41)
Chronic kidney disease	1.21 (1.06,1.37)
End-stage renal disease	1.38 (0.83,2.28)

^a Data present here were the value of follow up from 90 days after index date to the respective following up years.

^b Propensity score matching was performed on age at index, sex, race, body mass index, status of comorbidities (including diabetes mellitus, hypertension, systemic lupus erythematosus), status of comedication use (antibiotics, corticosteroids and immunomodulators), status of smoking, alcoholism and substance use, medical utilization status, lab data regarding renal function status (creatine, blood urea nitrogen, eGFR) and socioeconomic status (problems related to housing and economic circumstances, persons with potential health hazards related to socioeconomic and psychosocial circumstances).