

Appendix A. Identifying the Study Population.

ICD-9 Diagnosis Codes

Include emergency department visits for -

Urinary stone disease 270.0, 274.11, 592.0, 592.1, 592.9, 788.0

Exclude stone visits with an indication for immediate urinary diversion -

Renal insufficiency 440.1, 580, 580.0, 580.4, 580.8, 580.81, 580.89, 580.9, 581, 581.0, 581.2, 581.3, 581.8, 581.81, 581.89, 581.9, 582, 582.0, 582.1, 582.2, 582.4, 582.8, 582.1, 582.89, 582.9, 583, 583.0, 583.1, 583.2, 583.4, 583.6, 583.7, 583.8, 583.81, 583.89, 583.9, 584, 584.5, 584.6, 584.7, 584.8, 584.9, 585, 585.1, 585.2, 585.3, 585.4, 585.5, 585.6, 585.9, 586, 587, 589, 589.0, 589.1, 589.9, 593.9

Or 590.0, 590.1, 590.8, 590.80, 590.81

pyelonephritis

Abbreviation: ICD-9, *International Classification of Diseases, Ninth Revision.*

Appendix B. Identifying stone surgery.

Procedure	CPT
Percutaneous Nephrolithotomy	50080
	50081
	50130
	50561
Shockwave Lithotripsy	50590
Ureteroscopy	52320
	52325
	52330
	52335
	52336
	52337
	52351
	52352
52353	
Conventional Extraction	50060
	50065
	50070
	50075
	50610
	50620
50630	
Ancillary Procedures*	50040
	50398
	52334
	52332

*Ancillary procedures (e.g., placement of a percutaneous nephrostomy tube or a ureteral stent) were included if there was a concomitant diagnosis of urinary stone disease based on ICD-9 diagnosis codes (270.0, 271.8, 274.11, 592.0, 592.1, or 592.9).