

APPENDIX

Supplementary Table 1. Current procedural terminology (CPT) and international classification of diseases (ICD) 10 diagnosis codes utilized		
URS procedure codes		
Code	Code type	Description
52353	CPT	Cysureth w/uretr &/pyelscpy; litho
52356	CPT	Cysto/uretero w/lithotripsy
0TC48ZZ	ICD-10 PCS	Extir matr l kid pelv nat/artop endo
0TC78ZZ	ICD-10 PCS	Extir matr l urtr nat/art op endo
0TC37ZZ	ICD-10 PCS	Extir matr r kid pelv via nat/art op
0TC38ZZ	ICD-10 PCS	Extir matr r kid pelv nat/artop endo
0T778DZ	ICD-10 PCS	Dlt l urtr w intrlum via nat/art op endo
0TF48ZZ	ICD-10 PCS	Fragmnt l kid pelv nat/art op endo
0T768DZ	ICD-10 PCS	Dlt r urtr w intrlum via nat/art op endo
0T788DZ	ICD-10 PCS	Dlt bilat urtr intrlum dev nat/art endo
0TC68ZZ	ICD-10 PCS	Extir matr r urtr nat/art op endo
0TC77ZZ	ICD-10 PCS	Extir matr l urtr via nat/art op
0TF38ZZ	ICD-10 PCS	Fragmnt r kid pelv nat/art op endo
0TC67ZZ	ICD-10 PCS	Extir matr r urtr via nat/art op
0TF68ZZ	ICD-10 PCS	Fragmnt r urtr via nat/art op endo
0TC47ZZ	ICD-10 PCS	Extir matr l kid pelv via nat/art op
0TF78ZZ	ICD-10 PCS	Fragmnt l urtr via nat/art op endo

Single-use scope determination

Code	Code type	Description
C1747	HCPCS Level II	Endo, single, urinary tract

PCNL exclusion

Code	Code type	Description
50081	CPT	Perq nephrostolithotomy; over 2 cm
50080	CPT	Perq nephrostolithotomy; up to 2 cm

Comorbidity codes

UTI

Code	Code type	Description
N30.30	ICD-10 DX	Trigonitis wo hematur
N30.40	ICD-10 DX	Irradn cystitis wo hematur
N99.531	ICD-10 DX	Infct continent stoma urin tret

Bhojani et al. Healthcare resource utilization comparing single-use ureteroscopes with real-time intrarenal pressure monitoring to other single-use ureteroscopes

N11.0	ICD-10 DX	Nonobstructive reflux-associated pyelonephritis
N30.8	ICD-10 DX	Other cystitis
N13.6	ICD-10 DX	Pyelonephrosis
N30.00	ICD-10 DX	Acute cystitis without hematuria
N30.80	ICD-10 DX	Other cystitis without hematuria
N30.9	ICD-10 DX	Cystitis, unspecified
N41.3	ICD-10 DX	Prostatocystitis
N10	ICD-10 DX	Acute pyelonephritis
N11.1	ICD-10 DX	Chronic obstructive pyelonephritis
N39.0	ICD-10 DX	Urinary tract infection site not specified
R82.71	ICD-10 DX	Bacteriuria
A02.25	ICD-10 DX	Salmonella pyelonephritis
N30.31	ICD-10 DX	Trigonitis with hematuria
N99.521	ICD-10 DX	Infection incontinent external stoma urinary tract
N30	ICD-10 DX	Cystitis
N30.2	ICD-10 DX	Other chronic cystitis
N30.01	ICD-10 DX	Acute cystitis with hematuria
N30.10	ICD-10 DX	Intrstitial cystitis (chronic) without hematuria
N30.21	ICD-10 DX	Other chronic cystitis with hematuria
N30.3	ICD-10 DX	Trigonitis
R82.81	ICD-10 DX	Pyuria
N30.0	ICD-10 DX	Acute cystitis
N30.1	ICD-10 DX	Interstitial cystitis (chronic)
N30.90	ICD-10 DX	Cystitis unspecified without hematuria
N30.20	ICD-10 DX	Other chronic cystitis without hematuria
N30.91	ICD-10 DX	Cystitis unspecified with hematuria
N30.11	ICD-10 DX	Intrstitial cystitis (chronic) with hematuria
N30.81	ICD-10 DX	Other cystitis with hematuria

Sepsis

Code	Code Type	Description
A40.3	ICD-10 DX	Sepsis due to streptococcus pneumoniae
A41.4	ICD-10 DX	Sepsis due to anaerobes
A41.51	ICD-10 DX	Sepsis due to Escherichia coli [E. coli]
A41.3	ICD-10 DX	Sepsis due to Hemophilus influenzae
A42.7	ICD-10 DX	Actinomycotic sepsis
B37.7	ICD-10 DX	Candidal sepsis
A40.0	ICD-10 DX	Sepsis due to streptococcus group A
A41.2	ICD-10 DX	Sepsis due to unspecified staphylococci
A41.81	ICD-10 DX	Sepsis due to enterococcus

Bhojani et al. Healthcare resource utilization comparing single-use ureteroscopes with real-time intrarenal pressure monitoring to other single-use ureteroscopes

A41.52	ICD-10 DX	Sepsis d/t pseudomonas
A54.86	ICD-10 DX	Gc sepsis
A32.7	ICD-10 DX	Listerial sepsis
A40.1	ICD-10 DX	Sepsis d/t streptococcus grp b
A41.02	ICD-10 DX	Sepsis d/t methcil resistant staph aurs
A40.8	ICD-10 DX	Oth streptococcal sepsis
R65.21	ICD-10 DX	Sev sepsis w septic shock
A22.7	ICD-10 DX	Anthrax sepsis
A41.01	ICD-10 DX	Sepsis d/t methcil suscept staph aurs
A41.53	ICD-10 DX	Sepsis d/t serratia
A41.9	ICD-10 DX	Sepsis unsp orgism
R65.20	ICD-10 DX	Sev sepsis wo septic shock
A26.7	ICD-10 DX	Erysipelothrix sepsis
A41.50	ICD-10 DX	Gram-negative sepsis unsp
A40.9	ICD-10 DX	Streptococcal sepsis unsp
A41.89	ICD-10 DX	Oth spec sepsis
A41.59	ICD-10 DX	Oth gram-negative sepsis
A41.1	ICD-10 DX	Sepsis d/t oth spec staph

Other infections

Code	Code Type	Description
A04.72	ICD-10 DX	Enterocolitis d/t c_diff not recur
A60.09	ICD-10 DX	Herpvir infct oth urogntl tret
B09	ICD-10 DX	Viral infct char skin muc lesion unsp
B34.1	ICD-10 DX	Enterovirus infct unsp
A60.01	ICD-10 DX	Herpvir infct penis
B80	ICD-10 DX	Enterobiasis
U07.1	ICD-10 DX	Covid-19
K04.7	ICD-10 DX	Periapical abcs wo sinu
K85.00	ICD-10 DX	Idio ac pancreatitis wo necr or infct
K85.80	ICD-10 DX	Oth ac pancreatitis wo necr or infct
T83.592A	ICD-10 DX	Inf&inflm reac indwel uretrl stnt,init
Z91.89	ICD-10 DX	Oth spec pers risk factors nec
S10.91XA	ICD-10 DX	Abrasion unsp part nck init
T84.50XS	ICD-10 DX	Infct&inflm,unsp intrn jnt prsth,seq
K61.0	ICD-10 DX	Anal abcs
A08.4	ICD-10 DX	Viral intest infct unsp
A60.1	ICD-10 DX	Herpvir infct perianal skin&rectum
B95.62	ICD-10 DX	Methiclln resis staph infct dz ce
D71	ICD-10 DX	Fnx disord polymorphonuclear neutphl

Bhojani et al. Healthcare resource utilization comparing single-use ureteroscopes with real-time intrarenal pressure monitoring to other single-use ureteroscopes

B00.89	ICD-10 DX	Oth herpvir infct
B34.8	ICD-10 DX	Oth viral infct unsp sit
B96.20	ICD-10 DX	Unsp e coli cause dz ce
T82.7XXA	ICD-10 DX	Infct&inflm reac,cardc&vsclr dev,init
O23.02	ICD-10 DX	Infct kid in preg 2nd tri
T86.13	ICD-10 DX	Kid xplnt infct
Z11.3	ICD-10 DX	Encntr screen infct w/sexual trnsm
K85.10	ICD-10 DX	Bilry acute pancrt wo necros/infct
K85.90	ICD-10 DX	Ac pancreatitis wo necr or infct unsp
Z16.19	ICD-10 DX	Resistance to oth spec beta lactam abx
Z20.2	ICD-10 DX	Conct w/expos inf w/predom sexl trn
T84.51XA	ICD-10 DX	Infct&inflm,intrnl r hip prosth,init
Z87.440	ICD-10 DX	Pers hx urin (trct) infct
A08.11	ICD-10 DX	Ac gastentpath d/t norwalk agent
A69.20	ICD-10 DX	Lyme dz unsp
B25.9	ICD-10 DX	Cytomegaloviral dz unsp
B35.9	ICD-10 DX	Dermatophytosis unsp
O23.599	ICD-10 DX	Infct,oth prt,genitl trct,preg,uns
T80.219A	ICD-10 DX	Unsp infct d/t central venous cath init
H66.90	ICD-10 DX	Otitis media unsp unsp ear
S61.459A	ICD-10 DX	Open bite unsp hnd init
T80.211A	ICD-10 DX	Bloodstr inf d/t cv catheter, init
T83.511S	ICD-10 DX	Inf&infla rec d/t indw ure cath,seq
Z16.21	ICD-10 DX	Resistance to vancomycin
T83.510S	ICD-10 DX	Inf&infla reac d/t cystost cath,seq
T83.512A	ICD-10 DX	Inf&infla reac d/t neprost cath,init
T81.43XA	ICD-10 DX	Infct fol a proc org&spc surg sit init
M79.9	ICD-10 DX	Soft tiss disord unsp
A23.0	ICD-10 DX	Bruclosis d/t brucla melitensis
A49.8	ICD-10 DX	Oth bacterial infct unsp sit
B44.9	ICD-10 DX	Aspergillosis unsp
B95.7	ICD-10 DX	Oth staph as the cause dz cls elswhr
A49.1	ICD-10 DX	Streptococcal infct unsp sit
A49.9	ICD-10 DX	Bacterial infct unsp
T81.49XA	ICD-10 DX	Infct fol a proc oth surg sit init
T84.50XA	ICD-10 DX	Infct&inflm,unsp intrnl jnt prsth,init
T83.510D	ICD-10 DX	Inf&infla reac d/t cystost cath,subsq
T84.59XA	ICD-10 DX	Infct&inflm,oth intrn jnt prosth,init
K66.0	ICD-10 DX	Periton adhe (postp) (postinfct)
N49.2	ICD-10 DX	Inflm disord scrotum

Bhojani et al. Healthcare resource utilization comparing single-use ureteroscopes with real-time intrarenal pressure monitoring to other single-use ureteroscopes

O23.90	ICD-10 DX	Unsp gu tract infct in preg unsp tri
O98.519	ICD-10 DX	Oth viral dz comp preg unsp tri
S90.829A	ICD-10 DX	Blister (nonthermal) unsp ft init
T83.518A	ICD-10 DX	Inf&infla reac d/t oth uri cath,init
T81.4XXD	ICD-10 DX	Infct following a procure,subsq
Z22.6	ICD-10 DX	Carrier of [htlv-1] infct
O23.03	ICD-10 DX	Infct kid in preg 3rd tri
T83.510A	ICD-10 DX	Inf&infla reac d/t cystost cath,init
T81.42XA	ICD-10 DX	Inf foll proc,deep inc surg site,init
A04.8	ICD-10 DX	Oth spec bacterial intest infct
A08.8	ICD-10 DX	Oth spec intest infct
B20	ICD-10 DX	Human immdef virus [hiv] dz
B88.9	ICD-10 DX	Infestation unsp
B97.7	ICD-10 DX	Papillomavirus cause dz elsewhere
D70.3	ICD-10 DX	Neutropenia d/t infct
A49.02	ICD-10 DX	Methicillin resis staph infct,unsp sit
B34.2	ICD-10 DX	Coronavirus infct unsp
B34.9	ICD-10 DX	Viral infct unsp
B37.9	ICD-10 DX	Candidiasis unsp
B95.1	ICD-10 DX	Streptococcus b cause dz elsewhere
B96.1	ICD-10 DX	K. Pneumoniae as cause dz elsewhere
J22	ICD-10 DX	Unsp ac lo resp infct
L72.3	ICD-10 DX	Sebaceous cyst
T81.41XA	ICD-10 DX	Infct foll pro, incisl surg site,init
Z20.822	ICD-10 DX	Cntct w&(sus) expo to covid-19
J10.1	ICD-10 DX	Influenza d/t othr flu virus w/resp
L08.89	ICD-10 DX	Oth spe locl infct of skin&subq tis
Z21	ICD-10 DX	Asymptomatic hiv infct status
O23.11	ICD-10 DX	Infct bladd in preg 1st tri
T83.598A	ICD-10 DX	Inf&infl rea oth proco imp/gra uri,init
Z87.01	ICD-10 DX	Pers hx pn (recur)
A56.2	ICD-10 DX	Chlamyial infct gu tract unsp
A28.0	ICD-10 DX	Pasteurellosis
B33.3	ICD-10 DX	Retrovirus infct nec
B37.49	ICD-10 DX	Oth urogntl candidiasis
B95.2	ICD-10 DX	Enterococcus as the cause dz cls elswhr
B95.61	ICD-10 DX	Methicillin suscep staph infct dz ce
B96.89	ICD-10 DX	Oth spec bact agnts cause dz elswhr
A31.9	ICD-10 DX	Mycobacterial infct unsp
L08.9	ICD-10 DX	Local infct the skin&subc tiss unsp

Bhojani et al. Healthcare resource utilization comparing single-use ureteroscopes with real-time intrarenal pressure monitoring to other single-use ureteroscopes

T83.593A	ICD-10 DX	Inf&infl reac d/t oth urin stnt, init
M96.671	ICD-10 DX	Fx t/f ins orth implant r leg
T81.4XXA	ICD-10 DX	Infct following a procure,init
T83.511D	ICD-10 DX	Inf&infla rec d/t indw ure cath,subsq
A04.71	ICD-10 DX	Enterocolitis d/t c_ diff recur
A49.01	ICD-10 DX	Methicilln suscep staph infct,unsp st
A54.9	ICD-10 DX	Gc infct unsp
A74.9	ICD-10 DX	Chlamyial infct unsp
B96.5	ICD-10 DX	Pseudomonas as cause dz elsewhere
A60.00	ICD-10 DX	Herpvir infct urogntl sys unsp
B97.35	ICD-10 DX	Hiv 2 as the cause of dz elsewhere
B96.4	ICD-10 DX	Proteus(mirbls)(mrgnii) cause dz el
J44.0	ICD-10 DX	Chron obstr pulm dz w/ac lo resp
T87.43	ICD-10 DX	Infct amp stump r lo extrm
O23.13	ICD-10 DX	Infct bladd in preg 3rd tri
T85.71XA	ICD-10 DX	Infct&inflm,peritonl dialys cath,init
W57.XXXA	ICD-10 DX	Bitten nonvenom insct&arthropo, init
T85.79XA	ICD-10 DX	Infct&inflm,oth intrn prosth dev,init
J80	ICD-10 DX	Ac resp distress synd
A09	ICD-10 DX	Infct gastroenteritis&colitis unsp
B00.9	ICD-10 DX	Herpvir infct unsp
J06.9	ICD-10 DX	Ac up resp infct unsp
O75.3	ICD-10 DX	Oth infct dur labr
T83.511A	ICD-10 DX	Inf&infla rec d/t indw ure cath,init
T87.44	ICD-10 DX	Infct amp stump l lo extrm
T84.50XD	ICD-10 DX	Infct&inflm,unsp intrnl jnt prsth,subsq
T84.7XXA	ICD-10 DX	Infct&inflm,intrnl ortho prosth,init

Diabetes

Code	Code type	Description
E10.11	ICD-10 DX	Type 1 dm w ketoacidosis w coma
E10.351	ICD-10 DX	Type 1 dm w prolfrtv rtnpthy w edema
E10.10	ICD-10 DX	Type 1 dm w ketoacidosis wo coma
E10.329	ICD-10 DX	Type 1 dm w mld nprlfrt rtnpthy wo edma
E10.3511	ICD-10 DX	Typ1 dm w prolfrtv rtnpthy w edema r eye
E10.354	ICD-10 DX	Typ1 dm pro dr ret det,rheg ret deta
E10.628	ICD-10 DX	Type 1 diab mel w oth skin comp
E11.21	ICD-10 DX	Type 2 diab mel w diabetic nephropath

Bhojani et al. Healthcare resource utilization comparing single-use ureteroscopes with real-time intrarenal pressure monitoring to other single-use ureteroscopes

E11.3299	ICD-10 DX	Typ2 dm mld nprl dr wo mclr edma unsp
E13.3391	ICD-10 DX	Oth dm mod nprl dr wo mclr edma r eye
E13.3532	ICD-10 DX	Oth spec diab mel w rtnlpat l eye
E10.3393	ICD-10 DX	Typ1 dm w mod nprlfrt rtnpthy wo edma bi
E10.3411	ICD-10 DX	Typ1 dm w sev nprlfrt rtnpthy w edma r
E10.3499	ICD-10 DX	Typ1 dm sev nprlfrt rtnpthy wo edma unsp
E10.3542	ICD-10 DX	Type 1 diab mel w rtnlpat l eye
E10.37X3	ICD-10 DX	Typ1 dm dia mclr ed reso fol trmt bi e
E10.42	ICD-10 DX	Type 1 diab mel w diabetic polyneur
E10.51	ICD-10 DX	Typ 1 dm w dbtc perip angio wo gng
E10.610	ICD-10 DX	Type 1 dm w diabtc neurop arthrpthy
E10.641	ICD-10 DX	Type 1 diab mel w hypoglycemia w coma
E11.341	ICD-10 DX	Typ 2 dm w sevr nprlfrt dr w macular
E11.3491	ICD-10 DX	Typ2 dm sev nprl dr wo mclr edma r eye
E11.3531	ICD-10 DX	Type 2 diab mel w rtnlpat r eye
E11.3551	ICD-10 DX	Typ2 dm stable prolifer dia ret r eye
E13.01	ICD-10 DX	Oth spec diab mel w hyprosmrty w coma
E13.331	ICD-10 DX	Oth dm w mdt nprlfrtv dr w mclr edma
E13.3412	ICD-10 DX	Oth dm sev nprlf dr mclr edma l eye
E13.3492	ICD-10 DX	Oth dm sev nprl dr wo mclr edma l eye
E13.3559	ICD-10 DX	Oth dm stable prolifer dia ret unsp
E13.4	ICD-10 DX	Oth spec dm w neurological comp
E11.349	ICD-10 DX	Typ2 dm w sev nprlfrt dr wo macular
E11.638	ICD-10 DX	Type 2 diab mel w oth oral comp
E13.10	ICD-10 DX	Oth spec dm w ketoacidosis wo coma
E13.22	ICD-10 DX	Oth spec diab mel w diabetic chr kid dz
E13.33	ICD-10 DX	Oth spec dm w modrt nonprlfrtv dr
E13.3313	ICD-10 DX	Oth dm w mod nprlf dr mclr edma bi eye
E13.3543	ICD-10 DX	Oth spec diab mel w rtnlpat bilat
E13.630	ICD-10 DX	Oth spec diab mel w periodontal dz
E13.638	ICD-10 DX	Oth spec diab mel w oth oral comp
E13.8	ICD-10 DX	Oth spec diab mel w unsp comp
E11.3549	ICD-10 DX	Type 2 diab mel w rtnlpat unsp eye
E13.3292	ICD-10 DX	Oth dm mld nprl dr wo mclr edma l ey
E13.31	ICD-10 DX	Oth spec dm w unsp diabtc retnophthy
E13.349	ICD-10 DX	Oth dm w svr nprlfrtv dr wo macular
E13.3531	ICD-10 DX	Oth spec diab mel w rtnlpat r eye
E13.61	ICD-10 DX	Oth spec dm w diabetic arthropathy

Bhojani et al. Healthcare resource utilization comparing single-use ureteroscopes with real-time intrarenal pressure monitoring to other single-use ureteroscopes

E10.1	ICD-10 DX	Type 1 dm w ketoacidosis
E10.3492	ICD-10 DX	Typ1 dm w sev nprlfrt rtnpthy wo edema l
E10.3212	ICD-10 DX	Type 1 dm w mld noproliif rtnpthy edema l
E10.3313	ICD-10 DX	Typ1 dm w mod nprlfrt rtnpthy w edema bi
E10.3412	ICD-10 DX	Typ1 dm w sev nprlfrt rtnpthy w edma l
E10.3522	ICD-10 DX	Type 1 diab mel w rtnlpat l eye
E10.39	ICD-10 DX	Type 1 diab mel w oth diabetic opth comp
E10.41	ICD-10 DX	Type 1 dm w diabetic mononeuropathy
E10.62	ICD-10 DX	Type 1 dm w skin comp
E11.11	ICD-10 DX	Type 2 diab mel w ketoacidosis w coma
E11.3599	ICD-10 DX	Typ2 dm prolif dr wo mclr edma unsp
E11.37	ICD-10 DX	Typ2 dm diab mclr edma resol fol trmt
E13.3519	ICD-10 DX	Oth dm prolfr dr macular edma unsp
E11.3392	ICD-10 DX	Typ2 dm mod nprl dr wo mclr edma l eye
E11.3512	ICD-10 DX	Typ2 dm prolfr dr macular edma l eye
E11.2	ICD-10 DX	Type 2 dm w kidney comp
E11.3293	ICD-10 DX	Typ2 dm mld nprl dr wo mclr edma bi ey
E11.3419	ICD-10 DX	Typ2 dm sev nprlf dr mclr edma unsp
E11.3492	ICD-10 DX	Typ2 dm sev nprl dr wo mclr edma l eye
E11.353	ICD-10 DX	Typ2 dm pro dr trct ret detac non-mac
E11.9	ICD-10 DX	Type 2 diab mel wo comp
E13.29	ICD-10 DX	Oth spec dm w oth diabtcd kdny comp
E13.3211	ICD-10 DX	Oth dm mld nprlf dr mclr edma r eye
E10.3523	ICD-10 DX	Type 1 diab mel w rtnlpat bilat
E10.3553	ICD-10 DX	T1 dm stable prolif dia ret bi eye
E13.0	ICD-10 DX	Oth specified dm w hyperosmolarity
E13.3392	ICD-10 DX	Oth dm mod nprl dr wo mclr edma l eye
E13.3491	ICD-10 DX	Oth dm sev nprl dr wo mclr edma r eye
E13.3542	ICD-10 DX	Oth spec diab mel w rtnlpat l eye
E13.649	ICD-10 DX	Oth spec dm w hypoglycemi wo coma
E13.3553	ICD-10 DX	Oth dm stable prolif dia ret bi eye
E11.3539	ICD-10 DX	Type 2 diab mel w rtnlpat unsp eye
E13.3299	ICD-10 DX	Oth dm mld nprl dr wo mclr edma unsp
E13.3592	ICD-10 DX	Oth dm prolif dr wo mclr edma l eye
E11.3559	ICD-10 DX	Typ2 dm stable prolif dia ret unsp
E11.36	ICD-10 DX	Type 2 diab mel w diabetic cataract

Bhojani et al. Healthcare resource utilization comparing single-use ureteroscopes with real-time intrarenal pressure monitoring to other single-use ureteroscopes

E11.37X9	ICD-10 DX	Typ2 dm dia mclr edma reso fol trmt unsp
E11.8	ICD-10 DX	Type 2 diab mel w unsp comp
E13.3291	ICD-10 DX	Oth dm mld nprl dr wo mclr edma r ey
E13.3293	ICD-10 DX	Oth dm mld nprl dr wo mclr edma bi ey
E13.51	ICD-10 DX	Oth dm w diabtc perip angio wo gngr
E13.354	ICD-10 DX	Oth dm pro dr ret det,rheg ret deta
E13.3549	ICD-10 DX	Oth spec diab mel w rtnlpat unsp eye
E13.3523	ICD-10 DX	Oth spec diab mel w rtnlpat bilat
E10.321	ICD-10 DX	Type 1 dm w mld noprolif rtnpthy w edema
E11.3399	ICD-10 DX	Typ2 dm mod nprl dr wo mclr edma unsp
E10.31	ICD-10 DX	Type 1 dm w unsp diabetic retinopathy
E10.3419	ICD-10 DX	Typ1 dm sev nprlfrt rtnpthy w edma unsp
E10.3512	ICD-10 DX	Typ1 dm w prolfrtv rtnpthy w edema l eye
E10.43	ICD-10 DX	Typ 1 dm w dbtc autonomic(poly)neur
E10.620	ICD-10 DX	Type 1 diab mel w diabetic dermatitis
E10.630	ICD-10 DX	Type 1 diab mel w periodontal dz
E11.34	ICD-10 DX	Type 2 dm w sever nonproliferatv dr
E11.3593	ICD-10 DX	Typ2 dm prolif dr wo mclr edma bi eye
E13.3533	ICD-10 DX	Oth spec diab mel w rtnlpat bilat
E13.42	ICD-10 DX	Oth spec diab mel w diabetic polyneur
E10.3312	ICD-10 DX	Typ1 dm w mod nprlfrt rtnpthy w edema l
E10.34	ICD-10 DX	Type 1 dm w severe nprlfrt rtnpthy
E10.353	ICD-10 DX	Typ1 dm pro dr trct ret detac non-mac
E10.3599	ICD-10 DX	Typ1 dm prolif dr wo mclr edm unsp
E11.3	ICD-10 DX	Type 2 dm w opth complications
E11.3213	ICD-10 DX	Typ2 dm mld nprlf dr mclr edma bi eye
E11.329	ICD-10 DX	Typ 2 dm w mld nprlfrt dr wo macular
E11.618	ICD-10 DX	Type 2 dm w oth diabetic arthrpthy
E11.64	ICD-10 DX	Type 2 dm w hypoglycemia
E13.3213	ICD-10 DX	Oth dm mld nprlf dr mclr edma bi eye
E13.37X9	ICD-10 DX	Oth dm dia mclr edma reso fol trmt unsp
E13.620	ICD-10 DX	Oth spec diab mel w diabetic dermatitis
E10.341	ICD-10 DX	Typ1 dm w severe nprlfrt rtnpthy w edema
E10.3559	ICD-10 DX	Typ1 dm stable prolif dia ret unsp
E11.00	ICD-10 DX	Type 2 dm w hyperosmolrty wo nkhhc
E11.22	ICD-10 DX	Type 2 diab mel w diabetic chr kid dz

Bhojani et al. Healthcare resource utilization comparing single-use ureteroscopes with real-time intrarenal pressure monitoring to other single-use ureteroscopes

E11.3211	ICD-10 DX	Typ2 dm mld nprlf dr mclr edma r eye
E11.3291	ICD-10 DX	Typ2 dm mld nprl dr wo mclr edma r ey
E11.339	ICD-10 DX	Typ2 dm w mdt nprlfrt dr wo macular
E11.354	ICD-10 DX	Typ2 dm pro dr ret det,rheg ret deta
E11.359	ICD-10 DX	Typ2 dm w prolfrtv dr wo macular edma
E11.42	ICD-10 DX	Type 2 diab mel w diabetic polyneur
E13.339	ICD-10 DX	Oth dm w mdt nprlfrtv dr wo macular
E13.3499	ICD-10 DX	Oth dm sev nprl dr wo mclr edma unsp
E13.3529	ICD-10 DX	Oth spec diab mel w rtnlpat unsp eye
E13.353	ICD-10 DX	Oth dm pro dr trct ret detac non-mac
E13.9	ICD-10 DX	Oth spec diab mel wo comp
E11.351	ICD-10 DX	Typ2 dm w prolfrtv dr w maculr edema
E11.62	ICD-10 DX	Type 2 dm w skin comp
E10.649	ICD-10 DX	Type 1 diab mel w hypoglycemia wo coma
E11.37X3	ICD-10 DX	Typ2 dm dia mclr edma reso fol trmt bi e
E11.4	ICD-10 DX	Type 2 dm w neurological complications
E11.6	ICD-10 DX	Type 2 dm w oth specified comp
E11.63	ICD-10 DX	Type 2 dm w oral comp
E11.641	ICD-10 DX	Type 2 diab mel w hypoglycemia w coma
E13.610	ICD-10 DX	Oth spec dm w dbtc neur arthropthy
E13.3212	ICD-10 DX	Oth dm mld nprlf dr mclr edma l eye
E13.52	ICD-10 DX	Oth dm w diabtc periph angio w gangr
E10.3211	ICD-10 DX	Type 1 dm w mld noproli rtnpthy edema r
E10.65	ICD-10 DX	Type 1 diab mel w hyperglycemia
E10.311	ICD-10 DX	Type 1 dm w unsp rtnpthy w edema
E11.0	ICD-10 DX	Type 2 dm w hyperosmolarity
E11.3319	ICD-10 DX	Typ2 dm w mod nprlf dr mclr edma unsp
E11.3553	ICD-10 DX	Typ2 dm stable prolif dia ret bi eye
E13.63	ICD-10 DX	Oth spec dm wth oral comp
E10.59	ICD-10 DX	Type 1 diab mel w oth circ comp
E13.622	ICD-10 DX	Oth spec diab mel w oth skin ulc
E10.3551	ICD-10 DX	T1 dm stable prolif dia ret r eye
E10.3552	ICD-10 DX	T1 dm stable prolif dia ret l eye
E10.37X9	ICD-10 DX	Typ1 dm dia mclr ed reso fol trmt unsp
E10.5	ICD-10 DX	Type 1 dm w circulatory complications
E11.3591	ICD-10 DX	Typ2 dm prolif dr wo mclr edma r eye
E11.621	ICD-10 DX	Type 2 diab mel w ft ulc
E11.628	ICD-10 DX	Type 2 diab mel w oth skin comp

Bhojani et al. Healthcare resource utilization comparing single-use ureteroscopes with real-time intrarenal pressure monitoring to other single-use ureteroscopes

E10.3529	ICD-10 DX	Type 1 diab mel w rtnlpat unsp eye
E10.9	ICD-10 DX	Type 1 diab mel wo comp
E11.33	ICD-10 DX	Type 2 dm w mdrt nonproliferativ dr
E13.32	ICD-10 DX	Oth spec dm w mld nprlfrtv dr
E13.3219	ICD-10 DX	Oth dm mld nprlf dr mclr edma unsp
E13.3552	ICD-10 DX	Oth dm stable prolif dia ret l eye
E10.3513	ICD-10 DX	Typ1 dm w prolftrtv rtnpthy w edema bilat
E11.61	ICD-10 DX	Type 2 dm w diabetic arthropathy
E11.630	ICD-10 DX	Type 2 diab mel w periodontal dz
E13.3419	ICD-10 DX	Oth dm sev nprlf dr mclr edma unsp
E13.49	ICD-10 DX	Oth spec dm w oth dbtc neur comp
E13.5	ICD-10 DX	Oth spec dm w circulatry comp
E11.3313	ICD-10 DX	Typ2 dm w mod nprlf dr mclr edma bi eye
E10.3219	ICD-10 DX	Type 1 dm mld noprolif rtnpthy edma unsp
E10.33	ICD-10 DX	Type 1 dm w moderate nprlfrt rtnpthy
E10.331	ICD-10 DX	Type 1 dm w mod nprlfrt rtnpthy w edema
E10.35	ICD-10 DX	Type 1 dm w prolftrtv diabetic rtnpthy
E10.3541	ICD-10 DX	Type 1 diab mel w rtnlpat r eye
E10.44	ICD-10 DX	Type 1 diab mel w diabetic amyotrophy
E11.3542	ICD-10 DX	Type 2 diab mel w rtnlpat l eye
E11.649	ICD-10 DX	Type 2 diab mel w hypoglycemia wo coma
E13.43	ICD-10 DX	Oth spec dm w dbtc autonomic neur
E10.49	ICD-10 DX	Type 1 dm w oth diabetc neuro cmplc
E13.359	ICD-10 DX	Oth dm w prolftrtv dr wo mclr edma
E10.29	ICD-10 DX	Type 1 dm w oth diabetic kidney comp
E10.32	ICD-10 DX	Type 1 dm w mld noprolif rtnpthy
E10.3293	ICD-10 DX	Typ1 dm w mld nprlfrt rtnpthy wo edma bi
E10.349	ICD-10 DX	Typ1 dm w severe nprlfrt rtnpthy wo edma
E10.3539	ICD-10 DX	Type 1 diab mel w rtnlpat unsp eye
E10.3549	ICD-10 DX	Type 1 diab mel w rtnlpat unsp eye
E10.36	ICD-10 DX	Type 1 diab mel w diabetic cataract
E10.37X2	ICD-10 DX	Typ1 dm dia mclr ed reso fol trmt l e
E11.31	ICD-10 DX	Type 2 dm w unsp diabetic retnopathy
E11.32	ICD-10 DX	Type 2 dm w mld nonprlfrtv dia retn
E11.3413	ICD-10 DX	Typ2 dm sev nprlf dr mclr edma bi eye

Bhojani et al. Healthcare resource utilization comparing single-use ureteroscopes with real-time intrarenal pressure monitoring to other single-use ureteroscopes

E11.44	ICD-10 DX	Type 2 diab mel w diabetic amyotrophy
E13.3511	ICD-10 DX	Oth dm prolfr dr macular edma r eye
E10.3311	ICD-10 DX	Typ1 dm w mod nprlfrt rtnpthy w edema r
E10.3519	ICD-10 DX	Typ1 dm w prolfrtv rtnpthy w edema unsp
E10.37	ICD-10 DX	Typ1 dm diab mclr edm resol fol trmt
E11.3219	ICD-10 DX	Typ2 dm mld nprlf dr mclr edma unsp
E11.3393	ICD-10 DX	Typ2 dm mod nprl dr wo mclr edma bi e
E13.34	ICD-10 DX	Oth spec dm w severe nonprlfrtv dr
E13.35	ICD-10 DX	Oth dm w prolfrtv diabtc retinopathy
E13.3541	ICD-10 DX	Oth spec diab mel w rtnlpat r eye
E13.39	ICD-10 DX	Oth spec dm w diabtc ophthlmc comp
E13.41	ICD-10 DX	Oth spec dm w diabtc mononeurophy
E13.59	ICD-10 DX	Oth spec diab mel w oth circ comp
E13.621	ICD-10 DX	Oth spec diab mel w ft ulc
E13.3591	ICD-10 DX	Oth dm prolif dr wo mclr edma r eye
E10.4	ICD-10 DX	Type 1 dm w neurologic complicatns
E11.3519	ICD-10 DX	Typ2 dm prolfr dr macular edma unsp
E13.352	ICD-10 DX	Oth dm prolfr dr trct ret det,macula
E13.37X1	ICD-10 DX	Oth dm dia mclr edma reso fol trmt r e
E13.311	ICD-10 DX	Oth spec dm w unsp dr w macular edma
E13.37X2	ICD-10 DX	Oth dm dia mclr edma reso fol trmt l e
E10.3213	ICD-10 DX	Type 1 dm w mld noprolif rtnpthy edma bi
E10.339	ICD-10 DX	Typ1 dm w mod nprlfrt rtnpthy wo edema
E10.352	ICD-10 DX	Typ1 dm prolfr dr trct ret det,macula
E10.69	ICD-10 DX	Type 1 diab mel w oth spec comp
E10.2	ICD-10 DX	Type 1 dm w kidney comp
E10.22	ICD-10 DX	Type 1 dm w diabetic chr kidney dz
E10.3392	ICD-10 DX	Typ1 dm w mod nprlfrt rtnpthy wo edma l
E10.3413	ICD-10 DX	Typ1 dm w sev nprlfrt rtnpthy w edma b
E10.359	ICD-10 DX	Typ1 dm w prolfrtv dr wo mclr edema
E11.29	ICD-10 DX	Type 2 diab mel w oth diabetic kid comp
E11.35	ICD-10 DX	Type 2 dm w prolfrtv diabtc rtnpthy
E11.37X2	ICD-10 DX	Typ2 dm dia mclr edma reso fol trmt l e
E10.621	ICD-10 DX	Type 1 diab mel w ft ulc
E10.3299	ICD-10 DX	Typ1 dm mld nprlfrt rtnpthy wo edma unsp
E11.3499	ICD-10 DX	Typ2 dm sev nprl dr wo mclr edma unsp

Bhojani et al. Healthcare resource utilization comparing single-use ureteroscopes with real-time intrarenal pressure monitoring to other single-use ureteroscopes

E11.352	ICD-10 DX	Typ2 dm prolfr dr tret ret det,macula
E11.49	ICD-10 DX	Type 2 dm w oth diabetc neuro comp
E13.1	ICD-10 DX	Oth specified dm wth ketoacidosis
E13.321	ICD-10 DX	Oth dm w mld nprlfrtv dr w mclr edma
E13.3513	ICD-10 DX	Oth dm prolfr dr macular edma bi eye
E10.3319	ICD-10 DX	Typ1 dm mod nprlfrt rtnpthy w edema unsp
E11.311	ICD-10 DX	Type 2 dm w unsp dr w macular edema
E11.319	ICD-10 DX	Type 2 dm w unsp dr wo macular edma
E11.3311	ICD-10 DX	Typ2 dm w mod nprlf dr mclr edma r eye
E11.3529	ICD-10 DX	Type 2 diab mel w rtnlpat unsp eye
E11.610	ICD-10 DX	Type 2 dm w diabetc neurop arthrpthy
E13.329	ICD-10 DX	Oth dm w mld nprlfrtv dr wo macular
E13.3411	ICD-10 DX	Oth dm sev nprlf dr mclr edma r eye
E13.3493	ICD-10 DX	Oth dm sev nprl dr wo mclr edma bi eye
E13.69	ICD-10 DX	Oth spec diab mel w oth spec comp
E13.40	ICD-10 DX	Oth spec dm w diabetc neuropthy,unsp
E13.628	ICD-10 DX	Oth spec diab mel w oth skin comp
E11.3493	ICD-10 DX	Typ2 dm sev nprl dr wo mclr edma bi eye
E13.3521	ICD-10 DX	Oth spec diab mel w rtnlpat r eye
E13.37X3	ICD-10 DX	Oth dm dia mclr edma reso fol trmt bi e
E13.3522	ICD-10 DX	Oth spec diab mel w rtnlpat l eye
E10.3292	ICD-10 DX	Typ1 dm w mld nprlfrt rtnpthy wo edma l
E11.3543	ICD-10 DX	Type 2 diab mel w rtnlpat bilat
E11.41	ICD-10 DX	Type 2 dm w diabetic mononeuropathy
E10.319	ICD-10 DX	Type 1 dm w unsp rtnpthy wo edema
E10.3291	ICD-10 DX	Typ1 dm w mld nprlfrt rtnpthy wo edma r
E10.3391	ICD-10 DX	Typ1 dm w mod nprlfrt rtnpthy wo edma r
E10.3491	ICD-10 DX	Typ1 dm w sev nprlfrt rtnpthy wo edema r
E10.3532	ICD-10 DX	Type 1 diab mel w rtnlpat l eye
E10.3533	ICD-10 DX	Type 1 diab mel w rtnlpat bilat
E10.3593	ICD-10 DX	Typ1 dm prolif dr wo mclr edm bi eye
E10.52	ICD-10 DX	Typ 1 dm w dbtc perip angiop w gngr
E10.622	ICD-10 DX	Type 1 diab mel w oth skin ulc
E11.3522	ICD-10 DX	Type 2 diab mel w rtnlpat l eye
E11.3541	ICD-10 DX	Type 2 diab mel w rtnlpat r eye
E13.11	ICD-10 DX	Oth spec diab mel w ketoacidosis w coma
E13.3	ICD-10 DX	Oth spec dm w opth comp

Bhojani et al. Healthcare resource utilization comparing single-use ureteroscopes with real-time intrarenal pressure monitoring to other single-use ureteroscopes

E13.36	ICD-10 DX	Oth spec diab mel w diabetic cataract
E10.3399	ICD-10 DX	Typ1 dm mod nprlfrt rtnpthy wo edma unsp
E10.3543	ICD-10 DX	Type 1 diab mel w rtnlpat bilat
E11.3552	ICD-10 DX	Typ2 dm stable prolif dia ret l eye
E13.319	ICD-10 DX	Oth spec dm w unsp dr wo macular edma
E10.21	ICD-10 DX	Type 1 dm w diabetic nephropath
E10.3521	ICD-10 DX	Type 1 diab mel w rtnlpat r eye
E10.40	ICD-10 DX	Type 1 dm w diabetic neuropathy,unsp
E11.331	ICD-10 DX	Typ2 dm w mdt nonprlfrt dr w macular
E11.3412	ICD-10 DX	Typ2 dm sev nprlf dr mclr edma l eye
E11.40	ICD-10 DX	Type 2 dm w diabetic neuropathy,unsp
E11.5	ICD-10 DX	Type 2 dm w circulatory complications
E11.65	ICD-10 DX	Type 2 diab mel w hyperglycemia
E13.3311	ICD-10 DX	Oth dm w mod nprlf dr mclr edma r eye
E13.3399	ICD-10 DX	Oth dm mod nprl dr wo mclr edma unsp
E13.351	ICD-10 DX	Oth dm w prolfrtv dr w macular edema
E13.37	ICD-10 DX	Oth dm diab mclr edma resol fol trmt
E10.8	ICD-10 DX	Type 1 diab mel w unsp comp
E11.3511	ICD-10 DX	Typ2 dm prolfr dr macular edma r eye
E11.3521	ICD-10 DX	Type 2 diab mel w rtnlpat r eye
E11.37X1	ICD-10 DX	Typ2 dm dia mclr edma reso fol trmt r e
E11.69	ICD-10 DX	Type 2 diab mel w oth spec comp
E13.3393	ICD-10 DX	Oth dm mod nprl dr wo mclr edma bi e
E13.3539	ICD-10 DX	Oth spec diab mel w rtnlpat unsp eye
E13.3551	ICD-10 DX	Oth dm stable prolif dia ret r eye
E13.6	ICD-10 DX	Oth spec dm w oth specifd comp
E11.43	ICD-10 DX	Typ 2 dm w dbtc autonomic(poly)neur
E10.3591	ICD-10 DX	Typ1 dm prolif dr wo mclr edm r eye
E11.3533	ICD-10 DX	Type 2 diab mel w rtnlpat bilat
E13.64	ICD-10 DX	Oth specified dm wth hypoglycemia
E11.355	ICD-10 DX	Typ2 dm stable prolif diabetic retin
E13.3319	ICD-10 DX	Oth dm w mod nprlf dr mclr edma unsp
E10.3531	ICD-10 DX	Type 1 diab mel w rtnlpat r eye
E10.3	ICD-10 DX	Type 1 dm w opth comp
E10.3592	ICD-10 DX	Typ1 dm prolif dr wo mclr edm l eye
E10.6	ICD-10 DX	Type 1 dm w oth specified complications
E11.01	ICD-10 DX	Type 2 diab mel w hyprosmrty w coma
E11.3391	ICD-10 DX	Typ2 dm mod nprl dr wo mclr edma r eye
E11.3411	ICD-10 DX	Typ2 dm sev nprlf dr mclr edma r eye

Bhojani et al. Healthcare resource utilization comparing single-use ureteroscopes with real-time intrarenal pressure monitoring to other single-use ureteroscopes

E11.3592	ICD-10 DX	Typ2 dm prolif dr wo mclr edma l eye
E13.341	ICD-10 DX	Oth dm w svr nprlfrtv dr w macular
E11.39	ICD-10 DX	Type 2 diab mel w oth diabetic opth comp
E10.3493	ICD-10 DX	Typ1 dm w sev nprlfrt rtnpthy wo edema b
E10.355	ICD-10 DX	Typ1 dm stable prolif diabetic retin
E10.37X1	ICD-10 DX	Typ1 dm dia mclr ed reso fol trmt r e
E10.618	ICD-10 DX	Type 1 dm w oth diabetic arthrpthy
E10.63	ICD-10 DX	Type 1 dm w oral comp
E10.64	ICD-10 DX	Type 1 dm w hypoglycemia
E11.3212	ICD-10 DX	Typ2 dm mld nprlf dr mclr edma l eye
E11.3523	ICD-10 DX	Type 2 diab mel w rtnlpat bilat
E11.51	ICD-10 DX	Typ 2 dm w dbtc perip angi wo gngr
E11.620	ICD-10 DX	Type 2 diab mel w diabetic dermatitis
E13.21	ICD-10 DX	Oth spec diab mel w diabetic nephrrpath
E13.3512	ICD-10 DX	Oth dm prolfr dr macular edma l eye
E11.3292	ICD-10 DX	Typ2 dm mld nprl dr wo mclr edma l ey
E11.3312	ICD-10 DX	Typ2 dm w mod nprlf dr mclr edma l eye
E11.3513	ICD-10 DX	Typ2 dm prolfr dr macular edma bi eye
E11.3532	ICD-10 DX	Type 2 diab mel w rtnlpat l eye
E11.59	ICD-10 DX	Type 2 diab mel w oth circ comp
E13.3312	ICD-10 DX	Oth dm w mod nprlf dr mclr edma l eye
E13.3413	ICD-10 DX	Oth dm sev nprlf dr mclr edma bi eye
E13.3593	ICD-10 DX	Oth dm prolif dr wo mclr edma bi eye
E13.3599	ICD-10 DX	Oth dm prolif dr wo mclr edma unsp
E13.44	ICD-10 DX	Oth spec diab mel w diabetic amyotrophy
E13.65	ICD-10 DX	Oth spec diab mel w hyperglycemia
E11.321	ICD-10 DX	Typ 2 dm w mld nprlfrt dr w macular
E13.00	ICD-10 DX	Oth spec dm w hypersmlrt wo nkhhc
E13.355	ICD-10 DX	Oth dm stable prolif diabetic retin
E10.61	ICD-10 DX	Type 1 dm w diabetic arthropathy
E10.638	ICD-10 DX	Type 1 diab mel w oth oral comp
E11.10	ICD-10 DX	Type 2 diab mel w ketoacidosis wo coma
E11.622	ICD-10 DX	Type 2 diab mel w oth skin ulc
E13.2	ICD-10 DX	Oth specified dm w kdny comp
E13.618	ICD-10 DX	Oth spec dm w oth diabtc arthrpthy
E11.52	ICD-10 DX	Typ 2 dm w dbtc perip angiop w gngr
E13.641	ICD-10 DX	Oth spec diab mel w hypoglycemia w coma

Bhojani et al. Healthcare resource utilization comparing single-use ureteroscopes with real-time intrarenal pressure monitoring to other single-use ureteroscopes

E13.62	ICD-10 DX	Oth spec dm wth skin comp
--------	-----------	---------------------------

Kidney Stone

Code	Code Type	Description
N20.0	ICD-10 DX	Calculus kid

Obesity

Code	Code Type	Description
E66.09	ICD-10 DX	Oth obesity d/t excess calories
E66.2	ICD-10 DX	Morbi(sevr)obesty w alveolr hypovnt
E66.8	ICD-10 DX	Other obesity
E66.9	ICD-10 DX	Obesity unsp
E66.01	ICD-10 DX	Morbid (sev) obesity d/t excess calories
E66.1	ICD-10 DX	Drug-induc obesity
E66.3	ICD-10 DX	Overweight

Supplementary Table 2. Subgroup analysis showing association between the use of LVE with pressure monitoring capability and HRU (ED visit or inpatient admission) from multivariable logistic regressions for patients with UTI, sepsis, and UTI and/or sepsis

ED visit or inpatient admission	OR	CI		p
		Lower limit	Upper limit	
Patients with UTI				
Within 10 days post-URS	0.003	0.000	15.529	0.186
Within 30 days post-URS	0.012	0.000	0.501	0.020
Patients with sepsis				
Within 10 days post-URS	2.385	0.290	19.588	0.419
Within 30 days post-URS	0.257	0.035	1.862	0.179
Patients with UTI and/or sepsis				
Within 10 days post-URS	0.331	0.089	1.228	0.098
Within 30 days post-URS	0.176	0.051	0.612	0.006

Bolded values denote statistically significant differences at $p < 0.05$. CI: confidence interval; ED: emergency department; LVE: LithoVue™ Elite; OR: odds ratio; URS: ureteroscopy; UTI: urinary tract infection.