

Table S1 Search strategy for MEDLINE via PubMed

Search	Query	Result
#1	Search (Guideline[Publication Type]) OR (Practice Guideline[Publication Type]) OR (Consensus Development Conference[Publication Type]) OR (Guidelines as Topic[MeSH Terms]) OR (Practice Guidelines as Topic[MeSH Terms]) OR (Health Planning Guidelines[MeSH Terms]) OR (Consensus[MeSH Terms]) OR (Consensus Development Conferences as Topic[MeSH Terms]) OR (Guideline*[Title]) OR (Consensus[Title]) OR (Recommendation*[Title])	307356
#2	Search Urolithiasis [MeSH Terms]	41241
#3	Search #1 AND #2	289
#4	Search (Calculi, Kidney[Title]) OR (Calculus, Kidney[Title]) OR (Kidney Calculus[Title]) OR (Nephrolith*[Title]) OR (Renal Calculus[Title]) OR (Kidney Stones[Title]) OR (Kidney Stone[Title]) OR (Stone, Kidney[Title]) OR (Stones, Kidney[Title]) OR (Renal Calculi[Title]) OR (Calculi, Renal[Title]) OR (Calculus, Renal[Title]) OR (Urinary Lithiasis[Title]) OR (Lithiasis, Urinary[Title]) OR (Calculi, Urinary[Title]) OR (Calculus, Urinary[Title]) OR (Urinary Calculus[Title]) OR (Urinary Stones[Title]) OR (Stone, Urinary[Title]) OR (Stones, Urinary[Title]) OR (Urinary Stone[Title]) OR (Urinary Tract Stones[Title]) OR (Stone, Urinary Tract[Title]) OR (Stones, Urinary Tract[Title]) OR (Urinary Tract Stone[Title]) OR (Calculi, Staghorn[Title]) OR (Calculus, Staghorn[Title]) OR (Staghorn Calculus[Title]) OR (Calculi, Ureteral[Title]) OR (Calculus, Ureteral[Title]) OR (Ureteral Calculus[Title]) OR (Bladder Calculi, Urinary[Title]) OR (Bladder Calculus, Urinary[Title]) OR (Calculi, Urinary Bladder[Title]) OR (Calculus, Urinary Bladder[Title]) OR (Urinary Bladder Calculus[Title]) OR (Bladder Stones[Title]) OR (Bladder Stone[Title]) OR (Stone, Bladder[Title]) OR (Stones, Bladder[Title]) OR (Urinary Bladder Stones[Title]) OR (Bladder Stone, Urinary[Title]) OR (Bladder Stones, Urinary[Title]) OR (Stone, Urinary Bladder[Title]) OR (Stones, Urinary Bladder[Title]) OR (Urinary Bladder Stone[Title]) OR (Vesical Calculi[Title]) OR (Calculi, Vesical[Title]) OR (Calculus, Vesical[Title]) OR (Vesical Calculus[Title]) OR (Bladder Calculi[Title]) OR (Bladder Calculus[Title]) OR (Calculi, Bladder[Title]) OR (Calculus, Bladder[Title]) OR (Cystoliths[Title]) OR (Cystolith[Title])	22405
#5	Search #1 AND #4	141
#6	Search #3 OR #5 Filters: Publication date from 2009/01/01 to 2022/07; English	176

**Table S2** The individual scores for each item of the identified guidelines

Guideline	Domin 1			Domin 2			Domin 3							Domin 4			Domin 5			Domin 6		Overall		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23
<i>Dietary and pharmacologic management to prevent recurrent nephrolithiasis in adults: a clinical practice guideline from the American College of Physicians</i>																								
Reviewer 1	6	5	3	2	1	6	4	6	6	4	7	6	1	1	5	3	6	2	4	2	3	3	6	4
Reviewer 2	6	5	5	4	1	4	4	7	6	5	5	6	1	2	6	4	6	2	3	1	3	3	4	5
Reviewer 3	5	6	3	3	2	5	4	6	7	3	5	5	2	2	5	3	5	3	5	2	4	3	7	4
Reviewer 4	5	5	5	3	2	4	5	6	6	4	6	5	1	2	5	4	5	2	4	1	4	3	5	5
Raw total	59			37			140							57			45			34				
Score (%)	65.28			34.72			56.25							62.50			30.21			54.17				
<i>Medical Management of Kidney Stones: AUA Guideline</i>																								
Reviewer 1	5	5	5	5	2	6	5	6	6	6	5	6	6	2	6	5	6	3	4	2	4	3	7	5
Reviewer 2	6	6	5	4	3	6	6	4	5	6	6	5	5	1	5	6	5	4	3	1	3	3	6	6
Reviewer 3	6	5	4	5	3	6	5	5	7	7	5	6	7	2	5	5	7	5	4	3	5	2	7	5
Reviewer 4	6	6	5	4	4	5	5	4	6	5	5	5	6	1	5	5	6	4	4	1	5	3	6	6
Raw total	64			53			161							66			55			37				
Score (%)	72.22			56.94			67.19							75.00			40.63			60.42				
<i>Surgical Management of Stones: American Urological Association/Endourological Society Guideline, PART I</i>																								
Reviewer 1	4	5	5	3	1	3	2	2	7	2	5	6	2	1	6	5	7	2	5	2	5	3	6	5
Reviewer 2	5	6	6	4	1	4	3	3	6	2	7	4	3	1	6	5	7	3	3	1	6	4	6	5
Reviewer 3	5	5	5	3	1	4	3	2	7	3	6	5	3	1	6	6	7	3	4	1	4	3	6	5
Reviewer 4	5	6	6	4	1	4	4	3	7	4	6	5	4	1	6	6	6	3	3	1	6	4	6	6
Raw total	63			33			120							73			52			38				
Score (%)	70.83			29.17			45.83							84.72			37.50			62.50				
<i>Surgical Management of Stones: American Urological Association/Endourological Society Guideline, PART II</i>																								
Reviewer 1	5	5	6	3	2	3	3	1	6	2	6	6	1	1	6	5	6	3	5	1	5	3	6	5
Reviewer 2	5	5	6	3	1	5	4	2	5	3	6	5	3	1	7	6	6	4	3	1	6	4	6	5
Reviewer 3	6	4	6	2	1	3	4	2	7	2	6	6	2	1	7	5	6	4	5	1	5	2	7	4
Reviewer 4	5	5	5	4	1	5	4	4	5	3	6	5	2	1	6	5	7	4	3	1	6	2	6	6
Raw total	63			33			115							72			57			36				
Score (%)	70.83			29.17			43.23							83.33			42.71			58.33				
<i>Dietary treatment of urinary risk factors for renal stone formation. A review of CLU Working Group</i>																								
Reviewer 1	4	5	4	2	1	3	6	5	4	3	5	4	1	1	4	4	3	1	3	1	4	2	1	4
Reviewer 2	4	4	5	2	1	6	6	6	6	3	5	5	1	2	6	6	5	2	6	1	6	2	3	5
Reviewer 3	4	5	4	3	2	4	6	5	4	3	6	5	1	1	5	3	4	1	4	2	5	1	1	5
Reviewer 4	5	4	5	2	1	5	5	5	5	4	5	4	1	1	5	5	5	2	6	1	6	3	3	5
Raw total	53			32			124							55			51			16				
Score (%)	56.94			27.78			47.92							59.72			36.46			16.67				
<i>Canadian Urological Association guideline: Management of ureteral calculi – Full-text</i>																								
Reviewer 1	5	4	5	2	1	3	2	2	6	1	5	6	1	1	6	6	6	3	5	2	5	1	6	6
Reviewer 2	6	6	5	2	1	4	4	3	6	1	5	6	1	1	7	5	4	3	3	1	6	1	4	5
Reviewer 3	5	5	6	3	1	2	3	3	5	2	5	5	1	1	6	6	5	3	5	1	5	1	6	5
Reviewer 4	5	6	5	2	1	4	4	4	5	3	5	5	1	2	6	4	6	4	3	1	6	1	6	6
Raw total	63			26			105							67			56			26				
Score (%)	70.83			19.44			38.02							76.39			41.67			37.50				
<i>UPDATE – Canadian Urological Association guideline: Evaluation and medical management of kidney stones</i>																								
Reviewer 1	5	5	5	2	2	3	6	2	6	2	6	6	3	1	6	6	6	2	5	2	6	1	6	6
Reviewer 2	6	5	6	3	1	3	6	3	6	4	6	6	3	1	6	5	6	3	3	1	6	1	3	6
Reviewer 3	4	6	4	2	1	3	6	2	6	3	5	7	2	2	5	7	6	2	4	2	6	1	5	5
Reviewer 4	6	5	4	3	2	4	5	4	5	5	5	6	4	2	6	5	5	3	3	1	6	1	3	5
Raw total	61			29			136							69			55			21				
Score (%)	68.06			23.61			54.17							79.17			40.63			27.08				
<i>Metabolic Evaluation and Recurrence Prevention for Urinary Stone Patients: EAU Guidelines</i>																								
Reviewer 1	4	6	5	5	2	4	4	4	6	2	6	6	1	1	6	6	6	3	6	2	6	7	4	5
Reviewer 2	6	5	6	6	1	6	6	6	7	4	6	6	6	1	7	6	6	5	6	1	6	6	4	6
Reviewer 3	5	7	5	4	2	4	3	3	6	1	6	6	1	1	6	6	5	2	6	1	7	7	3	5
Reviewer 4	6	5	5	5	1	4	5	5	6	5	6	6	1	2	7	6	5	3	6	1	6	6	5	6
Raw total	65			44			135							72			67			42				
Score (%)	73.61			44.44			53.65							83.33			53.13			70.83				
<i>EAU Guidelines on Interventional Treatment for Urolithiasis</i>																								
Reviewer 1	4	6	6	5	1	3	4	4	6	2	6	6	1	1	5	6	6	2	6	2	6	7	4	5
Reviewer 2	4	5	5	6	2	4	6	6	5	4	6	6	1	2	5	6	7	3	4	1	6	6	6	6
Reviewer 3	5	6	6	5	2	3	4	4	7	3	6	7	1	2	6	5	6	1	7	2	6	7	3	5
Reviewer 4	5	6	5	5	3	4	7	6	6	2	6	6	1	3	6	5	6	3	5	1	6	6	6	6
Raw total	63			43			137							69			61			45				
Score (%)	70.83			43.06			54.69							79.17			46.88			77.08				
<i>EAU Guidelines on Diagnosis and Conservative Management of Urolithiasis</i>																								
Reviewer 1	4	4	4	5	1	2	4	4	6	2	6	6	1	1	5	5	6	2	5	2	6	7	4	5
Reviewer 2	4	3	5	6	1	5	6	6	5	3	6	6	1	2	6	5	6	3	3	1	6	6	6	6
Reviewer 3	5	5	5	4	1	3	4	5	6	2	5	5	1	1	4	5	7	2	5	2	5	7	4	5
Reviewer 4	5	3	4	6	1	4	7	6	4	3	6	6	1	3	6	6	6	4	3	1	5	6	6	6
Raw total	51			39			130							67			55			46				
Score (%)	54.17			37.50			51.04							76.39			40.63			79.17				
<i>EAU Guidelines on Urolithiasis</i>																								
Reviewer 1	6	5	6	4	3	6	7	7	7	4	6	7	3	4	6	6	7	4	6	3	6	4	6	7
Reviewer 2	6	5	5	6	4	6	6	6	5	6	7	6	3	4	6	7	6	4	6	3	6	6	6	7
Reviewer 3	6	5	6	5	2	5	7	6	7	4	5	7	2	4	7	6	7	3	6	4	5	3	6	7
Reviewer 4	5	4	6	6	3	6	6	7	6	6	6	6	3	4	7	6	6	5	6	3	6	6	6	6
Raw total	65			56			174							77			76			43				
Score (%)	73.61			61.11			73.96							90.28			62.50			72.92				
<i>EAU Guidelines on Paediatric Urology</i>																								
Reviewer 1	6	6	5	4	3	5	7	7	7	4	6	7	2	4	6	6	7	3	6	3	6	4	6	7
Reviewer 2	6	4	5	4	5	5	5	5	4	6	6	6	3	2	6	6	6	3	6	3	6	6	6	7
Reviewer 3	6	6	5	4	3	4	7	7	7	5	6	7	1	4	6	5	6	2	6	1	6	3	7	7
Reviewer 4	6	3	5	4	4	5	6	5	6	5	6	6	3	2	7	6	6	3	6	3	6	6	6	6
Raw total	63			50			164							73			69			44				
Score (%)	70.83			52.78			68.75							84.72			55.21			75.00				
<i>Urolithiasis: evaluation, dietary factors, and medical management: an update of the 2014 SIU-ICUD international consultation on stone disease</i>																								
Reviewer 1	4	4	4	2	2	2	1	1	6	2	5	6	1	1	5	5	7	3	4	2	4	1	7	4
Reviewer 2	5	5	6	4	4	3	2	3	6	2	6	3	1	2	5	5	4	3	3	1	6	1	7	4
Reviewer 3	5	5	5	3	2	3	2	2	6	1	6	6	1	2	5	6	7	4	5	2	5	1	6	4
Reviewer 4	5	5	5	4	5	3	1	2	5	2	5	6	1	2	6	6	5	4	3	1	6	1	7	5
Raw total	58			37			98							66			56			31				
Score (%)	63.89			34.72			34.38							75.00			41.67			47.92				
<i>NICE Guideline – Renal and ureteric stones: assessment and management</i>																								
Reviewer 1	7	7	6	6	7	6	7	7	6	7	6	6	5	3	6	6	7	6	5	7	6	6	6	7
Reviewer 2	6	5	6	6	6	6	6	7	6	5	6	3	6	4	6	5	6	5	3	5	5</			