Urology Patient Referral Guide

Kootenay Urology

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A standard referral letter is preferred. Letter must be accompanied with patient medical history, current medications, and allergies.

Common reasons for urology referral and things to consider in the patient evaluation >

HEMATURIA (PAINLESS)		
Gross Hematuria (GH)	Painless blood in the urinary stream may be associated with malignancy in up to 30% of patients. Malignancy is assumed unless proven otherwise. All patients with history for painless	
	GH require urologic assessment.	
	 <u>Required Investigations</u>: CBC, electrolytes, Cr/eGFR, INR, PTT 	
	Urine analysis and culture	
	 "CT IVP" if adequate renal function (eGFR >60ml/min) → Renal US acceptable if poor renal function or allergy to IV contrast 	
Asymptomatic Microscopic	This is defined as 2 consecutive <u>urine microscopy</u> samples showing >2 red blood cells per high powered field on microscopy.	
Hematuria	NOTE: BLOOD ON URINE DIPSTICK MUST BE CONFIRMED BY URINE MICROSCOPY	
(АМН)	Required Investigations:	
	 Urine analysis and culture Urine Microscopy x 2: Two consecutive results performed more than 1 week apart showing >2 RBC/HPF 	
	 Evidence of proteinuria and/or active sediment (e.g., red blood cell casts) should prompt referral to nephrology Renal US 	
NEPHROLITHIASIS		
	 <u>Required Investigations</u>: "Low Dose, non-contrast CT KUB" should be first line imaging for patients with suspected renal colic or nephrolithiasis. Radiation dose with CT KUB is low, roughly equivalent to Abdominal 3-View plain film. Contrast enhanced CT of the abdomen involves higher dose of radiation and is NOT needed in evaluation of stone disease. Exceptions where Renal US or KUB Plain Film may be appropriate: Pregnancy Young pediatric patients Ongoing surveillance of asymptomatic, non-obstructing stones CT unavailable Additional investigations should include basic metabolic assessment: UA to include urine pH CBC, lytes, BUN, Cr/eGFR, Ca, Mg, PO Consider PTH if elevated serum Ca If available, send stone for analysis 	

URINARY TRACT INFECTION		
Women	Recurrent UTI (rUTI) is defined as 2 episodes of acute bacterial cystitis within 6 months, or 3	
	episodes within 1 year. Acute bacterial cystitis is defined as a culture-proven infection of the	
	urinary tract with a bacterial pathogen AND acute-onset symptoms such as dysuria in	
	conjunction with variable degrees of increased urinary urgency and frequency, hematuria, and	
	new or worsening incontinence. Asymptomatic bacteriuria is the presence of bacteria in the	
	urine that causes no symptoms, and antibiotics should not routinely be prescribed.	
	Urologic review for women with uncomplicated rUTI is not routinely necessary. Prior to referral physicians should ensure the following recommendations have been implemented:	
	 Patients should be compliant with adequate fluid hydration and timed voiding at least every 2-3 hours 	
	Constipation is a significant risk factor for rUTI. Any component for constipation should be addressed prior to referral	
	 Patient should be taking D-mannose Vaginal estrogen should be recommended to peri- and post-menopausal women if there is no contraindication 	
	 For women who report sexual activity as a trigger for rUTI consideration should be given to peri-coital prophylaxis with nitrofurantoin or TMP-SMX 	
	Urology referral is suggested if:	
	 Risk factor(s) for complicated UTI is present (prior urologic surgery; gross hematuria after resolution of infection; obstructive voiding symptoms; urea-splitting bacteria like proteus, klebsiella, pseudomonas; bacterial persistence; prior abdominopelvic surgery; diabetes; immune compromised; pneumaturia/fecaluria; pyelonephritis of febrile UTI Surgically correctable cause is suspected (e.g., Urethral stenosis) 	
	3. Diagnosis of UTI as cause for lower urinary tract symptoms is uncertain (e.g., Suspect CIS)	
	Required Investigations:	
	 UA Urine cultures obtained while symptomatic Consider KUB US to include PVR if concern for obstructive symptoms 	
Men	Urinary tract infections in men are, by definition, complicated and require urologic assessment.	
	Required Investigations:	
	UA, Urine culture(s)	
	KUB Ultrasound to include PVR and prostate volume	
	Note: PSA should not be obtained around the time of suspected UTI, as infection may falsely	
	elevate this value. PSA can be obtained 6-8 weeks after resolution of infection.	
LOWER URINAR	Y TRACT SYMPTOMS (LUTS)	
Women	Required investigations:	
	 UA, Urine culture Consider KUB US to include PVR if significant obstructive symptoms 	
Men	Required investigations:	
	UA, Urine culture	
	• PSA	
	 Consider validated questionnaire (IPSS) Consider trial of alpha blocker therapy if clinical findings for BPH on exam prior to urologic referral 	

ERECTILE DYSFU	INCTION
	 <u>Required investigations</u>: HbA1c vs Fasting glucose, CBC, lytes, BUN, Cr, lipids Consider validated questionnaire: Sexual Health Inventory for Men (SHIM) Consider serum total testosterone if evidence for hypogonadism
ELEVATED PSA 8	
	 <u>Required investigations</u>: UA PSA (ideally 2 values within 1 year) Consider validated questionnaires: IPSS, SHIM
SCROTAL CONCE	RNS
	 <u>Required investigations</u>: UA Scrotal US Consider serum tumor markers only if concern for testis tumor (B-hCG, alpha fetoprotein, LDH)
PHIMOSIS	
	No investigations needed. Consider 6-8 week trial of topical steroid such as betamethasone valerate 0.1% applied TID with gentle retraction of the foreskin prior to referral.
RENAL MASS & F	RENAL CYSTS
	All solid renal tumors and complex renal cysts should undergo urologic assessment. Simple renal cysts (Bosniak class I and II) do not require urologic assessment or routine surveillance.
	Required investigations:
	 CBC, lytes, BUN, Cr/eGFR Order "CT with Renal Mass Protocol" if eGFR >60ml/min
ADRENAL MASS	
	Adrenal incidentalomas (AI) are serendipitously discovered lesions >1cm found on radiologic exam for unrelated indication. AI on imaging that are clearly benign do not require further investigation. If there are indeterminate features, or if the lesion is >4cm, then further investigation and urologic referral should be performed.
	Required investigations: • CT/MRI imaging • CBC, lytes, BUN, Cr/eGFR
	 Consider low dose 1mg dexamethasone suppression test Consider 24hour urine fractionated metanephrines and catecholamines Consider plasma aldosterone renin ratio if there is history for hypertension
NEUROGENIC BL	ADDER
	This encompasses patient with voiding dysfunction on the basis for neurologic condition (e.g., Spinal cord injury, MS, stroke, etc.). Patients with neurogenic bladder should be assessed annually with renal US, with consideration for urologic review for cystoscopy +/- urodynamic testing every 2 years, or if there is a significant change in voiding symptoms.
	 <u>Required investigations</u>: Renal US UA and recent urine cultures