CATEGORY	EXAMPLES	COMMON CLINICAL PRESENTATION AND RISK FACTORS
Neoplasm	Any	Male gender, Age older than 35 years, Past or current smoking history, Occupational or other exposure to chemicals or dyes (benzenes or aromatic amines), Analgesic abuse, History of gross hematuria, History of urologic disorder or disease,
		History of Irritative voiding symptoms, History of pelvic irradiation, History of chronic urinary tract infection, Exposure to known carcinogenic agents or chemotherapy such as alkylating
		agents, History of chronic indwelling foreign body
	Bladder cancer	Older age, male predominance, tobacco, occupational exposures, Irritative voiding symptoms
	Ureteral or renal pelvis cancer	Family history of early colon cancers or upper tract tumors, flank pain
	Renal cortical tumor	Family history of early kidney tumors, flank pain, flank mass
	Prostate cancer	Older age, family history, African- American
	Urethral cancer	Obstructive symptoms, pain, bloody discharge
	Any Cystitis	History of infection Female predominance, dysuria
	Pyelonephritis	Fever, flank pain, diabetes, female predominance
	Urethritis	Exposure to sexually transmitted infections, urethral discharge, dysuria
	Tuberculosis	Travel to endemic areas
	Schistosomiasis Hemorrhagic cystitis	Travel to endemic areas
Calculus	Any Nephroureterolithiasis Bladder stones	Flank pain, family history, prior stone Bladder outlet obstruction
Benign prostatic enlargement		Male, older age, obstructive symptoms
Medical renal disease	Any	Hypertension, azotemia, dysmorphic erythrocytes, cellular casts, proteinuria
	Nephritis	
	IgA nephropathy	
Congenital or acquired anatomic abnormality	Polycystic kidney disease	Family history of renal cystic disease
	Uretero-pelvic junction obstruction	History of UTI, stone, flank pain
	Ureteral stricture	History of surgery or radiation, flank pain, hydronephrosis; stranguria, spraying urine
	Urethral diverticulum	Discharge, dribbling, dyspareunia, history of UTI, female predominance
	Fistula	Pneumaturia, Fecaluria, abdominal pain, recurrent UTI, history of diverticulitis or colon cancer
Other	Exercise-induced hematuria	Recent vigorous exercise
	Endometriosis	Cyclic hematuria in a menstruating woman
	Hematologic or thrombotic	Family history of personal history of
	disease	bleeding or thrombosis
	Papillary necrosis	African-American, sickle cell disease,
	Papillary necrosis Arteriovenous malformation	African-American, sickle cell disease, diabetes, analgesic abuse
	Papillary necrosis Arteriovenous malformation Renal vein thrombosis	diabetes, analgesic abuse
	Papillary necrosis Arteriovenous malformation	