

بیماری های مختلف سیستم ادراری و ناهنجاری های مربوط به آنالیز ادرار

Disease	Macroscopic urinalysis	Microscopic urinalysis
Acute Glomerulonephritis	Gross hematuria Smoky Turbidity Proteinuria	Erythrocyte and blood casts Epithelial casts Hyaline casts Neutrophils Erythrocytes
Chronic Glomerulonephritis	Hematuria Proteinuria	Granular and waxy casts Occasional blood casts Erythrocytes Leukocytes Epithelial casts Lipid droplets
Acute Pyelonephritis	Turbid Occasional odor Occasional Proteinuria	Numerous neutrophils Few lymphocytes and histiocytes Leukocyte casts Renal Epithelial cells Erythrocytes Granular and waxy casts Bacteria
Chronic Pyelonephritis	Occasional Proteinuria	Leukocytes Broad waxy casts Granular and Epithelial casts Occasional Leukocyte casts Bacteria Erythrocytes
Nephrotic Syndrome	Proteinuria Fat droplets	Fatty and waxy casts Cellular and granular casts Oval fat bodies and/or vacuolated renal epithelial cells occurring singly or as cellular clusters
Acute Tubular Necrosis	Hematuria Occasional Proteinuria	Necrotic or degenerated renal epithelial cells Epithelial tissue fragments Broad casts Waxy casts Granular and Epithelial casts Neutrophils and erythrocytes

Disease	Macroscopic urinalysis	Microscopic urinalysis
Cystitis	Hematuria	Numerous leukocytes Erythrocytes Transitional epithelial cells occurring singly or fragments Histiocytes and giant cells Bacteria Absence of casts
Dysuria-Pyuria Syndrome	Slightly turbid	Numerous leukocytes, Bacteria Erythrocytes No casts
Acute renal allograft rejection (lower nephrosis)	Hematuria Occasional proteinuria	Renal epithelial cells Lymphocytes and plasma cells Neutrophils Renal epithelial casts Renal epithelial fragments Granular, bloody and waxy casts
Urinary Tract Neoplasia	Hematuria	Atypical mononuclear cells with enlarged, irregular hyperchromatic nuclei and sometimes containing prominent nucleoli that occur singly or tissue fragments Neutrophils Erythrocytes Transitional epithelial cells
Viral Infection	Hematuria Occasional proteinuria	Enlarged mononuclear cells and/or multinucleated cells with prominent intranuclear and/or cytoplasmic inclusions Neutrophils Lymphocytes and plasma cells Erythrocytes