

**PROTEIN TOTAL, 24  
HOUR URINE**

(Spectrophotometry)

Protein, Total  
Total Urine Volume

g/day  
mL / day

(0.04 - 0.15)

**Interpretation**

STATE	RESULT IN g/day
At rest	0.04 - 0.15
After exercise	<0.25

**Note:** 1. Excretion of total protein in individuals is highly variable with or without kidney disease.  
2. Conditions affecting protein excretion other than kidney disease are urinary tract infection, diet, menstruation & physical activity

**Comments**

Diagnosis of kidney disease and response to therapy is usually obtained by quantitatively analyzing the amount of protein excreted in urine over a 24 hour period.

TYPES OF PROTEINURIA	TOTAL PROTEIN IN g /day	CONDITIONS
Heavy	>4	Nephrotic syndrome, Acute Rapidly Progressive & Chronic Glomerulonephritis, Diabetes mellitus, Lupus erythematosus, Drugs like Penicillamine, Heavy metals like Gold & Mercury
Moderate	1-4	Nephrosclerosis, Multiple myeloma, Toxic nephropathies, Renal calculi
Minimal	<1	Chronic pyelonephritis, Chronic interstitial nephritis, Renal tubular diseases, Postural