

**PROTEIN – CREATININE RATIO, URINE**

(Spectrophotometry)

Protein, Total	mg/dL	(<14.00)
Creatinine	mg/dL	Link with age
Protein: Creatinine Ratio		(<0.20)

**Interpretation**

PROTEIN CREATININE RATIO	REMARKS
<0.20	Normal
0.20-1.00	Low grade proteinuria
1.00-5.00	Moderate proteinuria
>5.00	Nephrosis

**Comments**

Urinary total proteins are nearly negligible in healthy adults. The Protein Creatinine ratio is a simple and convenient method to quantitate and monitor proteinuria in adults with chronic kidney disease. Patients with 2 or more positive results within a period of 1-2 weeks should be labeled as having persistent proteinuria and investigated further.

**PROTEIN TOTAL, CSF**  
(Spectrophotometry)

mg/dL

**Interpretation**

AGE	REFERENCE RANGE IN mg/dL
Premature	15-130
At full term birth	40-120
1-30 days	20-80
>30 days	15-40

## Comments

Total Protein in CSF is derived from ultrafiltration from plasma through the meninges and choroid plexus. In addition there is intrathecal production of protein also. This assay helps in identifying increased permeability of blood brain barrier or increased production. High levels of CSF protein are seen in trauma & CNS disease. Excessively high concentrations of CSF protein are seen in Froin's syndrome ( $>500\text{mg/dL}$ ), clotted specimen, Xanthochromia & in the presence of free blood.

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