

# Urine Total Protein : Creatinine Ratio

## Synonyms

UTPR, PCR



## Clinical Indication

Investigation, assessment and monitoring of chronic kidney disease (NICE guidance CG107).

Assessment of pre-eclampsia in pregnancy (NICE guidance CG62)

Urine Total Protein:Creatinine Ratio has replaced 24hr Urine Total Protein except in a minority of patients under the care of renal and obstetric physicians.

## Part of Profile / See Also

## Request Form

Combined Pathology request form or ICE request

## Availability / Frequency of Analysis

On request.

## Turnaround Time

Same day

## Patient Preparation

## Sample Requirements

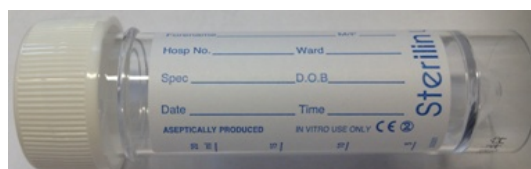
### Specimen Type

Early morning urine preferred

### Volume

2 ml

### Container



White Capped Universal

## Reference Range & Units

Normal: less than 15 mg/mmol

Reference: Renal Association Guidelines Proteinuria.

## Interferences

## Interpretation & Clinical

## Decision Value (if applicable)

Interpret in line with local renal (CKD) guidelines.

Routine referral: UTPR  $\geq 100$  mg/mmol or  $\geq 50$  mg/mmol with microscopic haematuria.

Urgent referral: Heavy proteinuria ( $\geq 300$  mg/mmol) with low serum albumin (nephrotic syndrome).

Assessment of proteinuria in pregnancy: significant proteinuria is defined as UTPR > 30 mg/mmol. If patient is diabetic then a 24hr urine collection to assess severity of proteinuria is recommended.

**References**

NICE guidance CG107 and NICE guidance CG62

**Test code**

UPCR

**Lab Handling**

Aliquot sample in to RT30 tube and centrifuge the aliquot before analysis. Urine samples are stable for 7 days at 2-8°C.