

THE AGA KHAN UNIVERSITY HOSPITAL CLINICAL LABORATORIES

UPDATE Tubular Phosphate Reabsorption to the Glomerular Filtration Rate (TmP/GFR)

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INTRODUCTION:

The ratio of tubular maximum reabsorption of phosphate (TmP) to GFR is used to evaluate renal phosphate transport. It is useful in assessing renal reabsorption of phosphate in a variety of pathological conditions associated with hypophosphatemia including:

- Hypophosphatemic rickets and tumor-induced osteomalacia.
- Renal stone disease (in the absence of hyperparathyroidism) to exclude tubular defects.

PRINCIPLE:

Urine and serum Phosphorus is analyzed by End point (Phosphomolybdate/UV) method. Urine and serum Creatinine is analyzed by Jaffe Kinetic Methodology.

SPECIMEN COLLECTION:

- 5-10 ml of random urine specimen.
- 3-5 cc blood in Gel tube is required.

SCHEDULE:

- Test will be performed daily with next day reporting.

PLEASE FILE FOR QUICK REFERENCE