HOTLINE: Effective August 15, 2022

New Test **3005478** **Glomerular Filtration Rate (Estimated)** **GFR EST**

Methodology: Quantitative Enzymatic
Performed: Sun-Sat
Reported: Within 24 hours

Specimen Required: Collect: Plasma separator tube or serum separator tube.
Specimen Preparation: Allow specimen to clot completely at room temperature. Separate serum or plasma from cells ASAP or within 2 hours of collection. Transfer 1 mL serum or plasma to an ARUP Standard Transport Tube. (Min: 0.2 mL)
Storage/Transport Temperature: Refrigerated.
Remarks: Patient age and sex are required for calculation.
Unacceptable Conditions: Specimens obtained through catheters used to infuse hyperalimentation fluid. Specimens collected with potassium oxalate/sodium fluoride or sodium citrate.
Stability (collection to initiation of testing): After separation from cells: Ambient: 1 week; Refrigerated: 1 week; Frozen: 3 months

Reference Interval: Calculated GFR - >= 60 mL/min / 1.73 square meters

Creatinine

Age	Male	Female
0-30 days	0.50-1.20 mg/dL	0.50-0.90 mg/dL
31-364 days	0.40-0.70 mg/dL	0.40-0.60 mg/dL
1-3 years	0.40-0.70 mg/dL	0.40-0.70 mg/dL
4-6 years	0.50-0.80 mg/dL	0.50-0.80 mg/dL
7-9 years	0.30-0.60 mg/dL	0.30-0.70 mg/dL
10-11 years	0.30-0.70 mg/dL	0.40-0.80 mg/dL
12-13 years	0.40-0.80 mg/dL	0.40-0.80 mg/dL
14-15 years	0.40-1.10 mg/dL	0.30-0.90 mg/dL
16-18 years	0.60-1.20 mg/dL	0.50-1.00 mg/dL
19 years and older	0.69-1.22 mg/dL	0.59-1.01 mg/dL

Interpretive Data:

The estimated glomerular filtration rate (eGFR) was calculated using the 2021 CKD-EPI eGFR creatinine equation, which does not include race as a factor. This equation is validated in individuals 18 years of age and older. Accurate estimation of GFR requires stable day-to-day creatinine. Creatinine-based eGFR is less accurate in patients with extremes of muscle mass, restriction of dietary protein, ingestion of creatine, extra-renal metabolism of creatinine, or treatment with medications that affect renal tubular creatinine secretion. The eGFR is normalized to a body surface area of 1.73 square meters.

GFR Categories in Chronic Kidney Disease (CKD)

GFR Category	GFR (mL/min/1.73 square meters)	Interpretation
G1	90 or greater	Normal to high*
G2	60-89	Mild decrease*
G3a	45-59	Mild to moderate decrease
G3b	30-44	Moderate to severe decrease
G4	15-29	Severe decrease
G5	14 or less	Kidney failure
*In the absence of evidence of kidney damage, neither GFR category G1 nor G2 fulfill the criteria for CKD (Kidney Int Suppl 2013;3:1-150)		

CPT Code(s): 82565

New York DOH Approved.

HOTLINE NOTE: Refer to the Test Mix Addendum for interface build information.