

0020725

Glomerular Filtration Rate, Estimated

GFRE

Specimen Required: Collect: Plasma separator tube or serum separator tube. Also acceptable: Lavender (EDTA).

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:

Effective August 20, 2018

Calculated GFR - ≥ 60 mL/min / 1.73 squared 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	0.40-1.20 mg/dL	0.40-1.20 mg/dL

Interpretive Data: The CKD-EPI equation for non-African American individuals is used to calculate the estimated glomerular filtration rate (GFR). To estimate the GFR for African Americans, multiply the provided GFR result by 1.16.

The CKD-EPI equation is validated in individuals 18 years of age and older. It 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.

GFR Categories in Chronic Kidney Disease (CKD)

GFR Category	GFR (mL/min/1.73 square meters)	Terms
G1	Greater than or equal to 90	Normal or high*
G2	60-89	Mildly decreased*
G3a	45-59	Mildly to moderately decreased
G3b	30-44	Moderately to severely decreased
G4	15-29	Severely decreased
G5	Less than 15	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)

HOTLINE NOTE: There is a numeric map and unit of measure change associated with this test.

Change the numeric map for component 0026634, Calculated GFR from XXXXXX.X to XXXXXX.

Change the unit of measure for component 0026634, Calculated GFR from mL/min to mL/min/1.73BSA.