
Lab Dept: Chemistry

Test Name: CREATININE

General Information

Lab Order Codes: CREA

Synonyms: Creat

CPT Codes: 82565 - Creatinine, blood

Test Includes: Creatinine concentration is reported in mg/dL.

Logistics

Test Indications: Creatinine produced as a by-product of muscle contraction, is fairly constant in the blood and is freely filtered by the glomerulus of the kidney. Useful in the evaluation of kidney function and in the diagnosis and treatment of renal diseases.

Lab Testing Sections: Chemistry

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 1 hour

Special Instructions: N/A

Specimen

Specimen Type: Blood

Container: Green top (Li Heparin) tube **preferred**
Alternate tube: SST-Serum Separator (Red, marble or gold top tube)

Draw Volume: 0.6 mL blood

Processed Volume: 0.2 mL serum/plasma

Collection: Routine venipuncture. Mix tubes containing anticoagulant by gentle inversion.

Note: Venipuncture should occur prior to administration of N-Acetylcysteine (NAC) or Metamizole due to the potential for falsely depressed results.

Special Processing: Lab Staff: Centrifuge specimen, remove serum/plasma aliquot into plastic sample cup. Analyze sample immediately or store at refrigerated temperatures.

Patient Preparation: None

Sample Rejection: Mislabeled or unlabeled specimen

Interpretive

Reference Range:

Males:	
Age:	Range (mg/dL)
0 – 7 days:	0.58 – 1.09
8 days – 1 month:	0.18 – 0.68
1 month – 3 years:	0.18 – 0.48
3 – 5 years:	0.18 - 0.58
5 – 6 years:	0.28 - 0.58
6 – 8 years:	0.28 – 0.68
8 – 10 years:	0.28 – 0.78
10 – 12 years:	0.38 – 0.89
12 – 14 years:	0.38 – 0.99
14 – 16 years:	0.48 – 1.09
16 – 18 years:	0.58 – 1.19
>18 years:	0.58 - 1.29
Females:	
0 – 7 days:	0.58 – 1.09

8 days – 1 month:	0.18 - 0.68
0 – 2 years:	0.18 – 0.48
2 – 5 years:	0.18 – 0.58
5 – 6 years:	0.28 – 0.58
6 – 9 years:	0.28 – 0.68
9 – 12 years:	0.28 – 0.78
12 – 15 years:	0.38 – 0.89
15 – 18 years:	0.38 – 0.99
>18 years:	0.48 – 0.99

Critical Values:

N/A

Limitations:

N/A

Methodology:

Enzymatic, correlated to IDMS traceable

References:

EZCRA Flex® reagent cartridge insert sheet (2/24/2015) Siemens Healthcare Diagnostics Inc, Newark, PN 7812270.001, Rev D

EZCR Flex® reagent cartridge insert sheet (RXL/MAX), Siemens Healthcare Diagnostics Inc, Newark, DE 19714, PN 717270.003, US, issue date 2014-11-21 Rev E

CREA CAL product insert, Dimension Vista System, Siemens Healthcare Diagnostics Inc, Newark, DE 19714, PN 751270.001, US, issue date 03/2012 Rev D

Chemistry 1 Calibrator package insert, Siemens Healthcare Diagnostics Inc, Newark, DE 19714, PN 792018.002-US, Rev E, Issue date 06/2013

Jacobs & DeMott Laboratory Test Handbook (2001) Lexi-Comp, Inc, Hudson, OH, 5th Edition

Pediatric Reference Intervals, Sixth Edition, AACC Press, Washington DC, 2007

Biorad Liquichek Unassayed Chemistry Control (Human) product insert,
Bio-Rad Laboratories, Irvine, CA

Medical Device Correction DC-16-02.A.US (3/17/2016) Siemens
Healthcare Diagnostics, Inc

Biorad Multiquel® 1 & 3 Control Levels product insert, Bio-Rad
Laboratories, Irvine, CA

Biorad Liquichek Urine Chemistry 1 & 2 Control Levels Product insert,
Bio-Rad Laboratories, Irvine, CA 92618

Updates:

2/4/2013: Method update, previously listed as Alkaline Picrate/Kinetic.
Note reference range changes.

7/21/2015: Vista update

2/8/2016: Update alt tube types

3/29/2016: Update collection/tubes/references