



LAB #: U000000-0000-0
 PATIENT: Sample Patient
 ID: PATIENT -S-00716
 SEX: Female
 AGE: 42

CLIENT #: 12345
 DOCTOR:
 Doctor's Data, Inc.
 3755 Illinois Ave.
 St. Charles, IL 60174

Creatinine Clearance

RESULTS

	RESULT / UNIT	REFERENCE INTERVAL	REFERENCE INTERVAL					
			-2SD	-1SD	MEAN	+1SD	+2SD	
Creatinine Clearance	118 mL/min	75- 120						
Urine Creatinine	1300 mg/time	600- 1900						
Serum Creatinine	0.77 mg/dL	0.6- 1.3						

INFORMATION

Creatinine Clearance is the most widely used test for estimating glomerular filtration rate (GFR). Creatinine, a breakdown product of muscle creatine, is present in relatively stable levels in serum. It is filtered by the glomeruli and not reabsorbed by the tubules. Changes in renal function are reflected in levels of serum urea and creatinine.

It is not uncommon for elderly patients, and those with heavy metal toxicity to have mild to moderate impairment of renal function. Renal disease is asymptomatic in most cases until late in its clinical course. Safe chelation therapy is highly dependent upon the adequacy of renal function. Excessive mobilization of toxic metals to poorly functioning kidneys may result in renal complications. It is advised that creatinine clearance be monitored prior to and throughout chelation therapy.

Interpretive guidelines:

- 100 mL/min or higher usually indicates normal renal function.
- 50 mL/min or below is indicative of impaired kidney function.
- 30 mL/min or below is indicative of symptomatic renal failure.

Exercise may cause increased clearance. Inaccurate results may be caused by failure to accurately follow the specimen collection instructions.

The calculation for corrected creatinine clearance in mL/min: =

Urine volume per minute x urine creatinine ÷ Serum creatinine x 1.73/body surface area

References:

1. Kaplan, Lawrence A., Clinical Chemistry, 3rd Edition. Mosby, St. Louis, 1996
2. Jacobs, D.S., Laboratory Test Handbook. 2^{dn} Edition. Lexi-Comp Inc. 1990

SPECIMEN DATA

Comments:

Date Collected: 5/16/2014	Height: 0 in	Collection Period: 24 hours
Date Received: 5/17/2014	Weight: 0 lbs	Volume: 900 ml
Date Completed: 5/19/2014	Body Surface Area: 1.73	Methodology: Automated Jaffe