	Chemistry CREATINE KINASE		
Test Name:			
General Information			
Lab Order Codes:	СРК		
Synonyms:	CK; Creatine Phosphokinase; CPK		
CPT Codes:	82550 – Creatine kinase (CK), (CPK), total		
Test Includes:	Creatine Kinase concentration reported in U/L.		
Logistics			
Test Indications:	Creatine kinase activity is useful in evaluating diseases of the heart skeletal muscle, and brain.		
Lab Testing Sections:	Chemistry		
Phone Numbers:	MIN Lab: 612-813-6280		
	STP Lab: 651-220-6550		
Test Availability:	Daily, 24 hours		
Turnaround Time:	2 hours		
Special Instructions:	N/A		
Specimen			
Specimen Type:	Blood		
Container:	Green top (Li Heparin) tube preferred Alternate tube: SST (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.		

Patient Preparation:

None

Sample Rejection:

Mislabeled or unlabeled specimen

Interpretive

Reference Range:	Age	Female Range (U/L)	Male Range (U/L)	
	0 – 12 years:	68 - 293	68 - 293	
	13 – 18 years:	48 - 200	80 - 354	
	Adult:	29 - 168	30 - 200	
Critical Values:	>4000 U/L			
Limitations:	Moderate or severely hemolyzed specimens can liberate adenylate kinase, ATP, and G-6-P which may affect the lag phase and side reactions of the CK assay system.			
Methodology:	NAC (N-acetyl-L-cysteine)			
References:	 Jacobs and DeMott Laboratory Test Handbook (2001) Lexi-Comp, Inc., Hudson, OH, 5th ed Abbott Alinity c Creatine Kinase Reagent Kit Instructions for Use, Abbott Laboratories Diagnostics Division, Abbott Park, IL, 60064, USA. February 2018 Bio-Rad Liquichek Multiqual 1,2,3 Unassayed Chemistry Control Package Insert, Bio-Rad Laboratories, Irvine, CA, 92618, USA CALIPER Reference Range Study, accessed October 27, 2020 			
Updates:	 7/10/2007: Critical value added. 12/22/2011: Turnaround time updated, previously listed as 4 hours. 2/8/2016: Update alt tube types. 7/8/2016: Updated limitations. 12/8/2020: Updated for method Abbott Alinity, removed method Siemens Vista 			