Lab Dept:	Chemistry		
Test Name:	CALCIUM		
General Information			
Lab Order Codes:	CA		
Synonyms:	Са		
CPT Codes:	82310 – Calcium; total		
Test Includes:	Calcium concentration reported in mg/dL.		
Logistics			
Test Indications:	Calcium is the fifth most common element and the most prevalent cation found in the body. Calcium exists in 3 physiochemical states in plasma; free/ionized, bound, and complexed with small anions. Calciu testing is used for assessment and treatment of parathyroid disease, a variety of bone diseases and chronic renal disease.		
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:	Preferred: Green top (Li Heparin) tube Alternate: Red, marble, or gold top tube or Green (NaHep) tube		
Draw Volume:	0.6 mL blood		
Processed Volume:	0.2 mL plasma/serum		
Collection:	Routine venipuncture		

Special Processing:	Lab Staff: Centrifuge specimen, remove plasma/serum aliquot into plastic sample cup. Analyze sample immediately or store at 2-8 degrees Centigrade for up to 3 weeks.	
Patient Preparation:	None	
Sample Rejection:	Mislabeled or unlabeled specimen	

Interpretive

Reference Range:	Age:	Range (mg/dL):	
	Reference ranges by Method: Method Abbott		
	Premature newborns:	6.2 – 11.0 mg/dL	
	0 – 10 days:	7.6 – 10.4 mg/dL	
	10 days – 24 months:	9.0 – 11.0 mg/dL	
	2 – 12 years:	8.8 – 10.8 mg/dL	
	12 – 60 years:	8.4 – 10.2 mg/dL	
	>60 years:	8.8 – 10.0 mg/dL	
Critical Values:	<6.0 or >14.0 mg/dL		
Limitations:	N/A		
Methodology:	ABBOTT: Arsenazo III		
References:	Biorad Liquichek Unassayed Chemistry Control Product Insert, Bio-Rad Laboratories, Irvine, CA 92618		
	Architect Calcium Pkg Insert, Abbott Laboratories Diagnostic Division, Abbott Park, IL 60064, January 2016		
	Alinity Calcium Pkg Insert, Abbott Laboratories Diagnostics Division, Abbott Park, IL 60064, February 2018		
	CALIPER pediatric reference range database (2019) Retrieved October 3, 2019 from https://caliper.research.sidkkids.ca/#/		
	Jacobs & DeMott Laboratory Test Handbook (2001) Lexi-Comp, Inc, Hudson, OH, 5th Edition		

Updates:

7/14/2014: Method change from Dimension to Dimension Vista.
2/8/2016: Update alt tube types
10/18/2019: New backup instrumentation and related reference ranges
11/9/2020: Retired method VISTA, updated for Alinity, container