



LAB #: Sample Report
PATIENT: Sample Patient
ID:
SEX: Female
DOB:

AGE: 50

CLIENT #: 12345
DOCTOR: Erlo Roth, MD
Doctor's Data, Inc.
3755 Illinois Ave
St. Charles, IL 60174 U.S.A.

Titanium; whole blood

TOXIC METALS				
	RESULT ng/mL	REFERENCE INTERVAL	NO IMPLANT	EXPOSURE
Titanium (Ti)	7.7	< 2.0		

Titanium (Ti) Several grades of pure Ti and Ti-alloys have been used extensively for dental implants, and orthopedic devices such as plates, rods, screws, wires, and inter-bone stems. Although used because of their relative high biocompatibility, Ti and Ti-alloys are susceptible to various types of corrosion even when completely imbedded within bone; corrosion releases Ti and Ti-alloy metals. The released metals may be persistently high in circulation and accumulate in the immediate periprosthetic bone and soft tissue, as well as remote tissues and organs. Elevated blood Ti levels associated with prostheses are not necessarily associated with Toxicity. However; there is a dearth of clinical data regarding potential adverse health effects. In an animal model Ti released from within bone concentrated primarily in the spleen and lungs, and to a lesser extent in the heart, kidneys and liver. Ti may have adverse effects in blood, fibrotic tissues and osteogenic cells after transport through the circulatory or lymphatic systems.

References available upon request.

SPECIMEN DATA

Comments:

Date Collected: 07/13/2020

Time Collected:

Methodology: ICP-MS

Date Received: 07/14/2020

Fasting: Random

Date Reported: 07/22/2020