Example Report

ARUP Laboratories

500 Chipeta Way – Salt Lake City, UT 84108 (800)522-2787 - www.aruplab.com Julio C. Delgado, M.D. M.S., Director of Laboratories

Patient Age/Gender: 60 years Male Printed: 15-Sep-17 07:07:39

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Procedure	Result	Units	Ref Interval	Reported/ Accession Collected Received Verified
Creatinine, Urine - per volume	55	mg/dL		17-258-900018 15-Sep-17 15-Sep-17 15-Sep-17 07:06:00 07:06:00 07:07:13
Beta-2-Microglobulin, Urine	15	ug/L	[0-300]	17-258-900018 15-Sep-17 15-Sep-17 15-Sep-17 07:06:00 07:06:00 07:07:13
Beta-2-Microglobulin, ratio to CRT	27	ug/g CRT	[0-300]	17-258-900018 15-Sep-17 15-Sep-17 15-Sep-17 07:06:00 07:06:00 07:07:13
pH, Urine	7.0			17-258-900018 15-Sep-17 15-Sep-17 15-Sep-17 07:06:00 07:06:00 07:07:13
Cadmium, Blood	<1.0	ug/L	[0.0-5.0]	17-258-900018 15-Sep-17 15-Sep-17 15-Sep-17 07:06:00 07:06:00 07:07:13
Cadmium, Urine - per volume	1.0	ug/L	[0.0-1.0]	17-258-900018 15-Sep-17 15-Sep-17 15-Sep-17 07:06:00 07:06:00 07:07:13
Cadmium, Urine - ratio to CRT	1.8	ug/g CRT	[0.0-3.0]	17-258-900018 15-Sep-17 15-Sep-17 15-Sep-17 07:06:00 07:06:00 07:07:13

15-Sep-17 07:06:00 Cadmium, Blood:

INTERPRETATION INFORMATION: Cadmium, Blood

Blood cadmium levels can be used to monitor acute toxicity and in combination with cadmium urine and B-2 microglobulin is the preferred method for monitoring occupational exposure. Symptoms associated with cadmium toxicity vary based upon route of exposure and may include tubular proteinuria, fever, headache, dyspnea, chest pain, conjunctivitis, rhinitis, sore throat and cough. Ingestion of cadmium in high concentration may cause vomiting, diarrhea, salivation, cramps, and abdominal pain.

See Compliance Statement B: aruplab.com/CS

15-Sep-17 07:06:00 Cadmium, Urine - per volume: INTERPRETATION INFORMATION: Cadmium, Urine

Urine cadmium levels can be used to assess cadmium body burden. In chronic exposures, the kidneys are the primary target organ. Symptoms associated with cadmium toxicity vary based upon route of exposure and may include tubular proteinuria, fever, headache, dyspnea, chest pain, conjunctivitis, rhinitis, sore throat and cough. Ingestion of cadmium in high concentration may cause vomiting, diarrhea, salivation, cramps, and abdominal pain.

See Compliance Statement B: aruplab.com/CS

15-Sep-17 07:06:00 Cadmium, Urine - ratio to CRT: CADMIUM ACTION LEVELS BEGINNING JANUARY 1999 (Federal Register 1999 Std. CFR, Part 1910.1027 Appendix A)

Cadmium Urine (ug/g CRT):

A B C C 7.1 or Greater

* Abnormal, # = Corrected, \mathbf{C} = Critical, \mathbf{f} = Footnote, \mathbf{H} = High, \mathbf{L} = Low, \mathbf{t} = Interpretive Text, @ = Reference Lab

Chart ID: 12279028 Page 1 of 2

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500 Chipeta Way - Salt Lake City, UT 84108 (800)522-2787 - www.aruplab.com Julio C. Delgado, M.D. M.S., Director of Laboratories Patient Age/Gender: 60 years Male Printed: 15-Sep-17 07:07:39

Cadmium Blood (ug/L):

in less than 2 weeks **

B-2-Microglobulin (ug/g CRT):

R C Α Monitor Semiannual Annual Quarterly

Biennial

Reassess CD exposure Discretionary Mandatory

*If an employee's B2Microglobulin is above 750 ug/g CRT, in order for mandatory medical removal to be required, either the employee's CdU level must also be greater than 3 ug/g CRT or CdB level must also be greater than 5 ug/L.

Semiannual

removal

**The determination of discretionary or mandatory removal is made by the examining physician consistent with the medical surveillance specifications in the Federal Register pages 42456 to 42463.

References:

Med Exam

1. US Department of Labor(2004). Cadmium Occupational Safety and Health Administration.3136-06R.

Annual

removal

2. US Department of Labor(1999). Cadmium Occupational Safety and Health Standard.1910.1027.

Urine B-2 Microglobulin is an early marker of irreversible kidney damage and disease. Urine Creatinine values less than 20 mg/dL represent very dilute urines and collection should be repeated.

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