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# Biolab Medical Unit

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Biolab reference: UUXZ/XXXX/G19

Patient: SAMPLE REPORT

Date: 10-07-2019

DOB: 12-03-1983

Your reference:

Sex: FEMALE

Doctor: SAMPLE REPORT

Sample Date: 10-07-2019

Sample	Test	Result	Units	Reference interval
DMSA Provocation Test (dose = 15 mg DMSA/kg body weight)				
URINE 1	(pre DMSA) mercury	0.41	umol Hg/mol creatinine	<2.00
URINE 2	(post-DMSA) mercury	2.36	umol Hg/mol creatinine	

Recent studies of the DMSA provocation test suggest that 15mg/Kg body weight is the best dosage to reveal excess tissue sequestration of arsenic, lead, mercury, nickel and thallium. Increases in urinary aluminium and cadmium are also sometimes seen. Maximum urine levels are reached around 2.5 hours post DMSA, but there is no clear peak of metal excretion. We have also found that oral DMSA may increase urinary excretion of nutritionally important elements.

There is no clearly defined reference interval for the increment in mercury production post DMSA; ideally the molar mercury/creatinine ratio in the basal sample should be less than 0.50, while that in the DMSA-provoked sample should be less than 1.00. The reference interval for the basal urine mercury/creatinine ratio (less than 2.00) reflects the current excessive dietary and environmental intake of mercury in this population.

Co-administration of chelating agents and other substances promoting metal excretion will influence the results of the DMSA provocation test, principally to raise the basal mercury/creatinine ratio and blunt the response to DMSA.