



## Patient 2 Pre and Post Provocation Case Study

Case history dictated by attending physician  
Provocation agents: Total Zeolite/Total Silver

Female, 69. Dx Severe MCS (Multiple Chemical Sensitivity); burning around mouth, lips & face, no prior chelation

**Treatment response:** Much improved after 6 weeks TID with Total Zeolite (15 sprays) & Total Silver (10 sprays), Tolerates foods & fragrances better in the work environment and is now able to continue working.

**Results of 12 Hour Post-Provocation Testing:** Results demonstrate an increased excretion rate of **Mercury 103,500%**, **Tungsten 11,100%**, **Cadmium 157%**, **Arsenic 155%** over Pre-Provocation levels.

### 12 Hour - Toxic Element Provocation Protocol (TEPP):

8am - collect Pre-Provocation urine sample, begin Provocation testing: 40 sprays Total Zeolite and 20 sprays Total Silver orally at 8am, 2pm, 4pm. Collect Post-Provocation urine from 8am until 8pm.

<b>Mercury</b>	PRE <DL	<= 2.19
	POST 10.35	<= 2.19
<b>Lead</b>	PRE 0.5	<= 1.4
	POST 0.5	<= 1.4
<b>Aluminum</b>	PRE <DL	<= 22.3
	POST <DL	<= 22.3
<b>Antimony</b>	PRE <DL	<= 0.149
	POST <DL	<= 0.149
<b>Arsenic</b>	PRE 9	<= 50
	POST 14	<= 50
<b>Barium</b>	PRE 8.4	<= 6.7
	POST 4.6	<= 6.7
<b>Bismuth</b>	PRE <DL	<= 2.28
	POST <DL	<= 2.28
<b>Cadmium</b>	PRE 0.19	<= 0.64
	POST 0.30	<= 0.64
<b>Cesium</b>	PRE 29.2	<= 10.5
	POST 29.0	<= 10.5



Gadolinium	PRE <DL	≤ 0.019
	POST <DL	≤ 0.019
Gallium	PRE 0.008	≤ 0.028
	POST <DL	≤ 0.028
Nickel	PRE 0.97	≤ 3.88
	POST 1.07	≤ 3.88
Niobium	PRE <DL	≤ 0.084
	POST <DL	≤ 0.084
Platinum	PRE <DL	≤ 0.033
	POST <DL	≤ 0.033
Rubidium	PRE 1,600	≤ 2,263
	POST 1,053	≤ 2,263
Thalium	PRE 0.368	≤ 0.298
	POST 0.333	≤ 0.298
Thorium	PRE <DL	≤ 4.189
	POST <DL	≤ 4.189
Tin	PRE 0.48	≤ 2.04
	POST 0.48	≤ 2.04
Tungsten	PRE <DL	≤ 0.211
	POST 0.111	≤ 0.211
Uranium	PRE <DL	≤ 0.026
	POST <DL	≤ 0.026