



Patient 16 Pre and Post Provocation Case Study

Case history dictated by attending physician
Provocation agents: ACZ nano/ACS 200

Male, 71. Dx: Viet Nam Veteran, Agent Orange exposure, has significant neurological problems and has undergone many brain MRI's using Gadolinium as the contrast agent.

Treatment response: Patient has noticed significant improvement in balance, headaches, sleep quality, numbness in extremities is gone and memory has greatly improved using ACZ nano and ACS 200 at maintenance dosage.

Results of 12 Hour Post-Provocation Testing: Results demonstrate an increased excretion rate of **Tungsten 3055%, Mercury 847%, Nickel 348%, Lead 225%, Rubidium 163%, Other Metals Excreted Above Baseline: Antimony, Barium, Cadmium, Cesium, Gadolinium, Platinum, Tin** over Pre-Provocation levels.

12 Hour - Toxic Element Provocation Protocol (TEPP):
8am - collect Pre-Provocation urine sample, begin Provocation testing: 40 sprays ACZ nano and 20 sprays ACS 200 orally at 8am, 2pm, 4pm. Collect Post-Provocation urine from 8am until 8pm.

Mercury	<div><div>PRE 0.44</div><div>POST 3.73</div></div> <div><div><= 2.19</div><div><= 2.19</div></div>
Lead	<div><div>PRE 0.4</div><div>POST 0.9</div></div> <div><div><= 1.4</div><div><= 1.4</div></div>
Aluminum	<div><div>PRE 6.3</div><div>POST < DL</div></div> <div><div><= 22.3</div><div><= 22.3</div></div>
Antimony	<div><div>PRE 0.042</div><div>POST 0.088</div></div> <div><div><= 0.149</div><div><= 0.149</div></div>
Arsenic	<div><div>PRE 10</div><div>POST 7</div></div> <div><div><= 50</div><div><= 50</div></div>
Barium	<div><div>PRE 2.3</div><div>POST 2.5</div></div> <div><div><= 6.7</div><div><= 6.7</div></div>
Bismuth	<div><div>PRE <DL</div><div>POST <DL</div></div> <div><div><= 2.28</div><div><= 2.28</div></div>
Cadmium	<div><div>PRE 0.09</div><div>POST 0.31</div></div> <div><div><= 0.64</div><div><= 0.64</div></div>
Cesium	<div><div>PRE 4.9</div><div>POST 5.0</div></div> <div><div><= 10.5</div><div><= 10.5</div></div>



Gadolinium	PRE 0.239	≤ 0.019
	POST 0.416	≤ 0.019
Gallium	PRE 0.011	≤ 0.028
	POST < DL	≤ 0.028
Nickel	PRE 0.47	≤ 3.88
	POST 1.64	≤ 3.88
Niobium	PRE <DL	≤ 0.084
	POST <DL	≤ 0.084
Platinum	PRE 0.036	≤ 0.033
	POST < 0.088	≤ 0.033
Rubidium	PRE 670	≤ 2,263
	POST 1,095	≤ 2,263
Thalium	PRE 0.179	≤ 0.298
	POST 0.197	≤ 0.298
Thorium	PRE <DL	≤ 4.189
	POST < DL	≤ 4.189
Tin	PRE 0.85	≤ 2.04
	POST 0.90	≤ 2.04
Tungsten	PRE 0.036	≤ 0.211
	POST 0.110	≤ 0.211
Uranium	PRE <DL	≤ 0.026
	POST <DL	≤ 0.026