



**Patient 13 Pre and Post Provocation Case Study**

Case history dictated by attending physician  
Provocation agents: ACZ nano/ACS 200  
Female, 61. Dx: Rheumatoid Arthritis with Lymphedema

Treatment response: Swelling & mobility much improved with TID ACZ nano (15 sprays) & ACS 200 (10 sprays).

Results of 12 Hour Post-Provocation Testing: Results demonstrate an increased excretion rate of **Mercury 826%, Lead 250%, Cadmium 225%, Barium 184%, Rubidium 179%, Cesium 152%, Tin 131% Nickel 429%, Arsenic 355%, Thallium 234%** 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 1.40</div><div>POST 11.57</div></div>	<div><div>≤ 2.19</div><div>≤ 2.19</div></div>
Lead	<div><div>PRE 0.8</div><div>POST 2.0</div></div>	<div><div>≤ 1.4</div><div>≤ 1.4</div></div>
Aluminum	<div><div>PRE 14.1</div><div>POST &lt;DL</div></div>	<div><div>≤ 22.3</div><div>≤ 22.3</div></div>
Antimony	<div><div>PRE 0.043</div><div>POST &lt;DL</div></div>	<div><div>≤ 0.149</div><div>≤ 0.149</div></div>
Arsenic	<div><div>PRE 9</div><div>POST 32</div></div>	<div><div>≤ 50</div><div>≤ 50</div></div>
Barium	<div><div>PRE 5.2</div><div>POST 9.6</div></div>	<div><div>≤ 6.7</div><div>≤ 6.7</div></div>
Bismuth	<div><div>PRE &lt;DL</div><div>POST &lt;DL</div></div>	<div><div>≤ 2.28</div><div>≤ 2.28</div></div>
Cadmium	<div><div>PRE 0.47</div><div>POST 1.06</div></div>	<div><div>≤ 0.64</div><div>≤ 0.64</div></div>
Cesium	<div><div>PRE 16.4</div><div>POST 25.0</div></div>	<div><div>≤ 10.5</div><div>≤ 10.5</div></div>



Gadolinium	PRE 0.032	≤ 0.019
	POST <DL	≤ 0.019
Gallium	PRE 0.024	≤ 0.028
	POST 0.025	≤ 0.028
Nickel	PRE 0.68	≤ 3.88
	POST 2.92	≤ 3.88
Niobium	PRE <DL	≤ 0.084
	POST <DL	≤ 0.084
Platinum	PRE <DL	≤ 0.033
	POST <DL	≤ 0.033
Rubidium	PRE 1,865	≤ 2,263
	POST 3,352	≤ 2,263
Thalium	PRE 0.503	≤ 0.298
	POST 1.182	≤ 0.298
Thorium	PRE <DL	≤ 4.189
	POST <DL	≤ 4.189
Tin	PRE 2.64	≤ 2.04
	POST 3.48	≤ 2.04
Tungsten	PRE 0.150	≤ 0.211
	POST <DL	≤ 0.211
Uranium	PRE <DL	≤ 0.026
	POST <DL	≤ 0.026