

*Richard Semelka MD*  
*Clinical Outcomes of Chelation Therapy*

# *Conflicts of Interest*

No conflicts of interest reported.

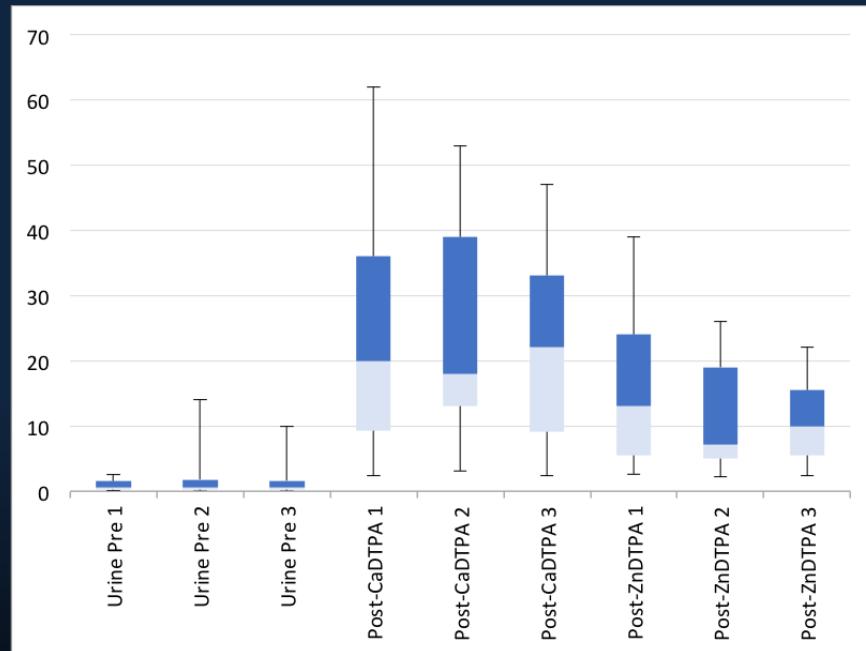
## *Method of Ca/Zn-DTPA Chelation*

- Modification of chelation designed for radioactive actinide metals:
  - 1l normal saline bag.
  - Initially slow saline infusion for 30 minutes then sped up infusion for remaining 1 hour.
  - 2.5ml iv Ca-DTPA at time 0 by iv; then 2.5 ml at time 80 minutes.
  - Patient instructed to keep up high oral fluid intake.
  - 24hr urine collection started at time of completion of chelation.
  - The following day same steps repeated with Zn-DTPA.

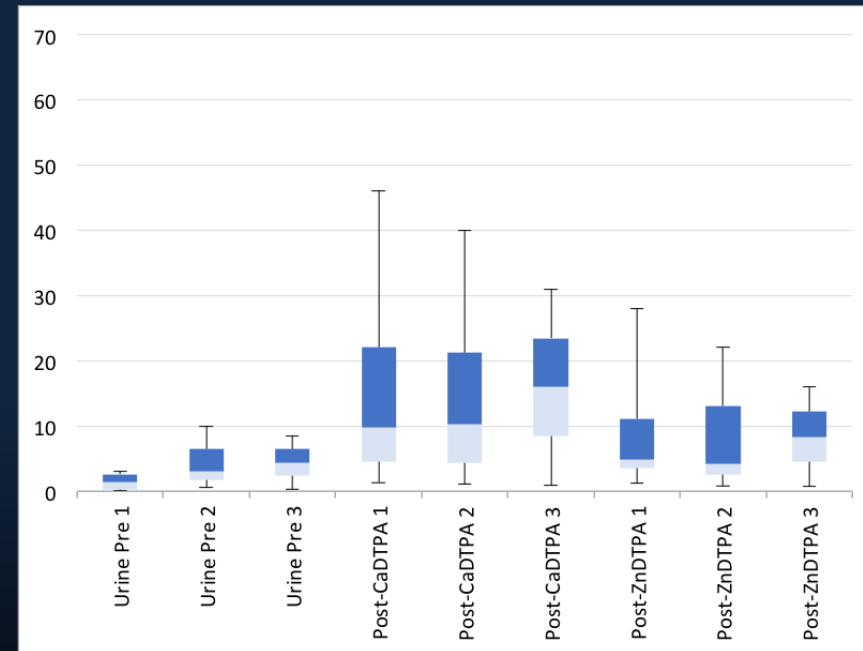
# Urine Gd Content (24-hour Gd Output)

Gd content increased in the urine, with an overall mean of 30.3-fold increase in the monthly regimen ( $P < 0.001$ )

Gd content increased in the urine, with an overall mean of 12.9-fold in the weekly regimen ( $P < 0.001$ )



Increase Gd seen with Linear GBCAs



Increase Gd also seen with Macrocytic CGBCAs

## *Extent of clinical improvement after 3 sessions*

- Overall, symptoms improved in 13 patients, unchanged in 10, and worse in 2 (n=30).
- Significant clinical improvement was present for:
  - headache, brain fog, and bone pain for the **monthly** regimen;
  - arm pain and leg pain for the **weekly** regimen.