

Occupational toxicity and lead nephropathy, an example of the chemistry and biochemistry of metal toxicity

Ishiaq O Omotosho*

University Of Ibadan, Nigeria

Toxicity of lead remains a topical issue even in the developed economies of the world. The challenges posed by this metal are informed by its near ubiquitous presence in both domestic and industrial appliances. Among the several organs vulnerable to the toxicity of this metal is the kidney especially in occupationally predisposed adults where due to lack of very sensitive indicators of its toxicity, the pathology often present late as end-stage-renal disease (ESRD) by which time the damage to the kidney is irreversible. This presentation is to chronicle the chemistry of this metal and biochemistry of its disease especially in the vulnerable group with a view to highlighting the synergy between basic sciences and medicine and the need to explore this in translational research in the quest for early and sensitive bioindicator of aetiopathology of exposure to the metal, lead.