



COLLEGE OF MEDICINE, EDEN AND BETHESDA AVENUES
KETTERING LABORATORY
DEPARTMENT OF ENVIRONMENTAL HEALTH

December 28, 1973

MEMORANDUM

TO: Faculty

FROM: D. R. Johnson and L. I. Kleinman *DJ*

RE: Grant Proposal

We are planning to submit a new grant to NIEHS to support the investigation of the effects of lead on the kidneys of young animals. Our primary concerns will be the following: 1) can the animal model now being used in this department to study lead-induced brain dysfunction be used to study renal dysfunction; 2) can lead produce renal tubular dysfunction other than the reported Fanconi-like syndrome, for instance, altered sodium excretion, urinary concentrating ability, or response to an acid stress; 3) at what stage of intoxication are glomerular function and renal hemodynamics affected; 4) do any of the above parameters correlate with blood or kidney levels of lead; 5) does infant lead exposure result in incomplete renal maturation or dysfunction that leads to adult renal failure. This research should provide some basic information concerning renal involvement in pediatric lead poisoning.