

MEMORANDUM

NOTE DE SERVICE

TO
A

Dr. B. Wheatley,
Senior Staff Medical Officer,
Program Management.

FROM
DE

Occupational Medicine Consultant,
Public Service Health,
Program Development.

SUBJECT
OBJET

ARSENIC - Normal Biological Levels

SECURITY-CLASSIFICATION - DE SÉCURITÉ
OUR FILE - N/RÉFÉRENCE
YOUR FILE - V/RÉFÉRENCE
DATE January 28, 1977.

In reviewing the literature the following levels can be determined for supposedly unexposed persons.

Hair 0 - 15 ppm. Levels of 100 ppm or greater have been identified without any evidence of clinical diseases.

Urine 0 - 330 ppb. Browning quotes a paper by Pinto and McGill to the effect that evidence of systemic poisoning is rare at even 4,000 - 5,000 ppb.

Nails. This analysis relates only to cases 0 - 420 ppm.

Blood. A range of 200 - 1,000 ppb has been quoted for unexposed women.

Drills pharmacology gives a figure of 0 - 20 ppb.

A recent paper by Dr. Andrew L. Reeves, Wayne State University at the Arsenic Conference in Fort Lauderdale, Florida gives the following ranges for normal unexposed population;

- Hair 0.5 - 2.00 ppm
- Urine 10 - 330 ppb
- Nails 0.5 - 5.50 ppm
- Blood 100 - 500 ppb.

T.H. Patterson
T.H. Patterson

c.c.: Dr. F.H. Hicks