

US EPA ARCHIVE DOCUMENT

Vasilescu

MRID:

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DATA EVALUATION RECORD

- (1) CHEMICAL: Trichlorfon
- (2) TYPE OF FORMULATION: Unspecified
- (3) CITATION: Vasilescu, C. 1972. Motor nerve conduction velocity and electromyogram in triorthocresyl-phosphate poisoning. Rev. Roum, Keurol. 9:345-350

(4) REVIEWED BY:

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(32A-0141)

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- (6) TOPIC: Case History

(7) MATERIALS AND METHODS:

- (a) Poisoning victim: The patient was a 33-year-old woman.
- (b) Poisoning incident: She had handled Dipterex.
- (c) Amount of exposure: Unknown
- (d) Route of exposure: Possibly dermal and inhalation.
- (e) Symptoms: Two weeks after handling the insecticide, paresthesia occurred, particularly in the lower limbs. Thereafter, a motor deficit occurred distally, especially in the lower limbs. This motor deficit was accompanied by abolishment of the Achilles reflex, while the other deep tendon reflexes were hyperactive. The patient did not display objective signs of sensitivity disturbances.

The acute poisoning events were not described.

- (f) Treatment: None described
- (g) Clinical Tests: The conduction velocity in the motor fibers of the median and ulnar nerves were 50.7 and 51.5 m/second, respectively. In the anterior tibial and the finger flexor, there appeared fibrillation potentials at rest and a severe loss of M.U. with an increase in potential amplitude and duration on maximal contraction.

Among 30 control subjects, average age 41.5 years, without lesions of the peripheral nervous system, the conduction velocity in motor fibers of median and ulnar nerves was 57.20 ± 0.93 and 57.33 ± 0.91 m/second, respectively.

CORE CLASSIFICATION: Not applicable

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- (8) REPORTED RESULTS: In a woman accidentally poisoned by Dipterex, the conduction velocity of the motor fibers of the median and ulnar nerves was reduced to 88.6% and 89.8%, respectively, of the mean value in a control group.
- (9) TECHNICAL REVIEW TIME: 1.5 hours