

US EPA ARCHIVE DOCUMENT

DATA EVALUATION RECORD

- (1) CHEMICAL: Trichlorfon
- (2) TYPE OF FORMULATION: Unspecified
- (3) CITATION: Okuyama, A., Arima, T., Goto, Y., Imai, M.,  
and Haraoka, S. 1975. A case of hypocholinesterasemia  
induced by trichlorfon. Acta Med. Okayama 29:233-236

(4) REVIEWED BY:

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(32B-0050)

(5) APPROVED BY:

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Date: \_\_\_\_\_

- (6)
- TOPIC
- : Case history

(7) MATERIALS AND METHODS:

(a) The victim was a 26-year-old woman.

(b) She ingested trichlorfon in a suicide attempt.

(c) The amount of exposure was 20 g of trichlorfon, which she took with 200 ml of red wine.

(d) The route of exposure was ingestion.

(e) She was found lying on the floor several minutes after ingestion. She then vomited several times. Her lips and nails were cyanotic, and her blood pressure was below 80 mm Hg. Her vision became blurred, her speech was slurred, and her pupils were "small" with sluggish light reaction. She was hospitalized about 1 hour after ingestion. On the 2nd day, no toxic symptoms were noted.

(f) No data on emergency treatment were given.

(g) In the first 24 hours of hospitalization, she was given 1,500 mg of 2-pyridine aldoxime methiodide (2-PAM) and bicarbonate intravenously. No other treatment data were given in the paper.

(h) Laboratory results on hospital admission were as follows: red blood cell count 4,730,000/mm<sup>3</sup>; hematocrit 45%; hemoglobin 14.0 gm%; white blood cell count 11,000/mm<sup>3</sup> with normal differentiation; SGOT 9 Karmen units; SGPT 5 Karmen units; alkaline phosphatase 2.8 Bodansky units; cholinesterase 0.3  $\Delta$ pH/hour; blood sugar 140 mg%; serum total cholesterol 110 mg%; blood urea nitrogen 10 mg%; potassium 2.6 mEq/L; sodium 136 mEq/L; calcium 4.4 mEq/L; chloride 118 mEq/L; and urinalysis, negative. Electrocardiogram and chest X-ray were negative.

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On the 2nd day of hospitalization, laboratory results included the following: hemoglobin 12.4 gm%; hematocrit 40%; WBC 10,300/mm<sup>3</sup>; SGOT 19 Karmen units; cholinesterase 0.05  $\Delta$ pH/hour. During the next 2 weeks, the serum cholinesterase level gradually increased to 0.47  $\Delta$ pH/hour (normal = 0.8~1.1  $\Delta$ pH/hour).

(8) REPORTED RESULTS: The woman was discharged from the hospital with no reported symptoms. No follow-up data on her status were given.

(9) TECHNICAL REVIEW TIME: 4.0 hours