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**Protopam** is not effective in the treatment of poisoning due to phosphorous, inorganic phosphates, or organophosphates not having anticholinesterase activity. **Protopam** is **not** indicated as an antidote for intoxication by pesticides of the carbamate class since it may increase the toxicity of carbaryl.

When atropine and pralidoxime are used together, the signs of atropinization (flushing, mydriasis, tachycardia, dryness of the mouth and nose) may occur earlier than might be expected when atropine is used alone.



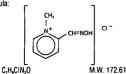
**For complete information on indications, please refer to Full Prescribing Information. Please see brief summary of Prescribing Information on the adjacent page.** https://doi.org/10.1011/JS.10149023X000114448 Plubinsed online by Campoing University Press Baxter and Protopam are trademarks of Baxter International, Inc., or its subsidiaries. 780377 11-04 Baxter

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#### **PROTOPAM Chloride**

(pralidoxime chloride) for Injection DESCRIPTION

Chemical name: 2-formyl-1-methylpyridinium chloride oxime. Available in the United States as PROTOPAM Chloride, pralidoxime chloride is frequent-ly referred to as 2-PAM Chloride. Structural formula:



C,H,CIN,O M.W. 172.61 Pralidoxime chloride occurs as an odorless. white, nonhygroscopic, crys-talline powder which is soluble in water. Stable in air, it mells between 215° and 225° C. with decomposition. The specific activity of the drug resides in the 2-formyl-1-methylpyridinium ion and is independent of the particular salt employed. The chloride is pre-ferred because of physiologic compatibility, excellent water solubility at all temperatures, and high potency per gram, due to its low molecular weight. Pralidoxime chloride is a cholinesterase reactivator. PROTOPAM Chloride for intravenous injection or infusion is prepared by cry-odesiccation. Each vial contains 1g of sterile pralidoxime chloride, and NaOH ja adjust JP. It o be reconstituted with 20 mL of Sterile Water for injection, JSP. The pH of the reconstituted solution is 3.5 to 4.5. Intramuscular or sub-cutaneous injection may bused when intravenous injection on intravenous injection or teasible.

cutaneous injection may be used when intravenous injection is not feasible

#### CLINICAL PHARMACOLOGY

cutaneous injection may be used when intravenous injection is not feasible. **CLINICAL PHARMACIOGY** The principal action of pralidoxime is to reactivate cholinesterase (mainly outside of the central nervous system) which has been inactivated by phos-phorylation due to an organphosphate pesticide or related compound. The destruction of accumulated acetylcholine can then proceed, and neuromus-cular junctions will again function normally. Praldoxime also slows the process of 'aging' of phosphorylated cholinesterase to a nonreactivatable form, and detoxilies certain organophosphates by direct chemical reaction. The drug has its most critical effect in relieving paraysis of the muscles of the respiration. Because pralidoxime is less effective in relieving depression of the respiratory center, atropine is always required concomitantly to block the seriet of accumulated acetylcholine at this site. Praldoxime relieving depression is relatively unimportant since atropine is adequate for this purpose. Pralidoxime is distributed throughout the extracellular water; it is not bound to plasma protein. The drug is rapidly excreted in the unine partly unchanged, and partly as a metabolite produced by the liver. Consequently, pralidoxime is relatively short acting, and repeated doses may be needed, especially where there is any evidene of continuing absorption of the poison. The minimum therapeutic concentration of pralidoxime in plasma is 4 up/mL; this level is reached in about 16 minutes after a single injection of 600 mg PROTOPAM Chloride. The apparent half-life of PROTOPAM Chloride is 74 to 77 minutes. It has been reported' that the supplemental use of oxime cholinesterase reactivators (such as pralidoxime) reduces the incidence and severity of developmental defects in chick embryos exposed to such known leatogens as parathion, bidini, carbacho, and neostigmine. This protective effect of the oximes was shown to be dose related. **INDICATIONS AND USAGE** 

#### INDICATIONS AND USAGE

PROTOPAM is indicated as an antidote: (1) in the treatment of poisoning due to those pesticides and chemicals of the organophosphate class which have anticholinesterase activity and (2) in the control of overdosage by anti-cholinesterase frugs used in the treatment of myasthenia gravis.

The principal indications for the use of praildoxime are muscle weakness and respiratory depression. In severe poisoning, respiratory depression may be due to muscle weakness.

#### CONTRAINDICATIONS

There are no known absolute contraindications for the use of PROTOPAM. Relative contraindications include known hypersensitivity to the drug and other situations in which the risk of its use clearly outweighs possible bene-tit (see PRECAUTIONS).

WARNINGS PROTOPAM is not effective in the treatment of poisoning due to phosphorus, inor-ganic phosphates, or organophosphates not having anticholinesterase activity. PROTOPAM is not indicated as an antidote for intoxication by pesticides of the carbamate class since it may increase the toxicity of carbaryl.

#### PRECAUTIONS

PRECAUTIONS General Praildoxime has been very well tolerated in most cases, but it must be remembered that the desperate condition of the organophosphate-poisoned patient will generally mask such minor signs and symptoms as have been noted in normal subjects. Intravenous administration of PROTOPAM should be carried out slowly and, preferably, by influsion, since certain side effects, such as tachycardia, laryn-gospasm, and muscle rigidity, have been attributed in a few cases to a too-rapid rate of injection. (See DOSAGE AND ADMINISTRATION.) PROTOPAM should be used with great caution in treating organophosphate a muscle size of the start of the s

PROTOPAM should be used with great caution in treating organophosphate overdosage in cases of myasthenia gravis since it may precipitate a myas-thenic crisis.

Because pralidoxime is excreted in the urine, a decrease in renal function will result in increased blood levels of the drug. Thus, the dosage of pralidoxime should be reduced in the presence of renal insufficiency.

Should be reduced in the presence of rotation and the statuted without wait-Laboratory Tests Treatment of organophosphate poisoning should be instituted without wait-ing for the results of laboratory tests. Red blood cell, plasma cholinesterase, and urinary paranitrophenol measurements (in the case of parathino expo-sure) may be helpful in confirming the diagnosis and following the course of the illness. A reduction in red blood cell cholinesterase concentration to below 50% of normal has been seen only with organophosphate ester poi-soning. Soning. Drug Interactions

Drug interactions When atropine and pralidoxime are used together, the signs of atropinization (flushing, mydriasis, tachycardia, dryness of the mouth and nose) may occur earlier than might be expected when atropine is used alone. This is especially true if the total does of atropine has been large and the adminis-tration of pralidoxime has been delayed.<sup>34</sup> The following precautions should be kept in mind in the treatment of anti-cholinesterase poisoning, atthough they do not bear directly on the use of prali-doxime: since barbiturates are potentiated by the anticholinesterases, they should be used cautiously in the treatment of convulsions: morphine, theo-phylline, aminophylline, succinytcholine, reserpine, and phenothiazine-type tranquilizers should be avoided in patients with organophosphate poisoning. **Carcinogenesis, Mutagenesis, Impairment of Ferlility** Since pralidoxime chloride is indicated for short-term mergency use only, no investigations of its potential for carcinogenesis, mutagenesis, or impairment of ferlility have been conducted by the manufacturer, or reported in the literature. **Prepanacy** 

Pregnancy TERATOGENIC EFFECTS-PREGNANCY CATEGORY C

TERATOGENIC EFFECTS-PREGNANCY CATEGORY C Animal reproduction studies have not been conducted with pralidoxime. It is also not known whether pralidoxime can cause fetal harm when adminis-tered to a pregnant woman or can affect reproduction capacity. Pralidoxime should be given to a pregnant woman only if clearly needed. **Nursing Mothers** It is not known whether this drug is excreted in human milk. Because many drugs are excreted in human milk, caution should be exercised when prali-doxime is administered to a nursing woman.

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#### Pediatric Use

R only

Pediatric Use Safety and effectiveness in pediatric patients have not been established. Geriatric Use Clinical studies of PROTOPAM did not include sufficient numbers of subjects aged 55 and over 10 determine whether they respond differently from younger subjects. Other reported clinical experience has not identified differences in responses between the elderly and younger patients. In general, does selec-tion for an elderly patient should be cautious, usually starting at the low end of the dosing range. reflecting the greater frequency of decreased hepatic, renal, or cardiac function, and of concomitant or other drug therapy.

#### ADVERSE REACTIONS

ADVERSE REACTIONS Forty to 60 minutes after intramuscular injection, mild to moderate pain may be experienced at the site of injection. Pralidoxime may cause blurred vision, diplopia and impaired accommodation, dizziness, headache, drowsiness, nausea, tachycardia, increased systolic and dias-tolic blood pressure, hyperventilation, and muscular weakness when given par-enterally to normal volunteers who have not been exposed to anticholinesterase poisons. In patients, it is very difficult to differentiate the toxic effects produced by atropine or the organophosphate compounds from those of the drug. Elevations in SGOT and/or SGPT enzyme levels were observed in 1 of 6 nor-mal volunteers given 1200 mg of praifoxim cohirotic intramuscularly, and in 4 of 6 volunteers given 1800 mg intramuscularly. Levels returned to nor-mal in about 2 weeks. Transient elevations in creatine phosphokinase were observed in all normal volunteers given the drug. A single intramuscular injection of 330 mg in 1 mL in rabbits caused myonecrosis, inflammation, and hemorrhage. and hemorrhade.

and hemorrhage. When arcopiane and pralidoxime are used together, the signs of atropinization may occur earlier than might be expected when atropine is used alone. This is especially true if the total dose of atropine has been large and the admin-istration of pralidoxime has been delayed.<sup>4</sup> Excitement and manic behavior immediately following recovery of consciousness have been reported in sev-eral cases. However, similar behavior has occurred in cases of organophos-phate poisoning that were not treated with pralidoxime.<sup>336</sup>

DRUG ABUSE AND DEPENDENCE Pralidoxime chloride is not subject to abuse and possesses no known potential for dependence.

#### OVERDOSAGE Manifestations of Overdosage

Manifestations of Uveroosage Observed in normal subjects only: dizziness, blurred vision, diplopia, headache, impaired accommodation, nausea, slight tachycardia. In therapy it has been difficult to differentiate side effects due to the drug from those due to the effects of the poison. Treatment of Overdosage Artificial respiration and other supportive therapy should be administered as needed.

Acute Toxicity IV – man TDLo: 14 mg/kg (toxic effects: CNS)

- IV man TDLo: 14 mg/kg (toxic f IV rat LD<sub>sc</sub>: 36 mg/kg IM rat LD<sub>sc</sub>: 150 mg/kg ORAL mouse LD<sub>sc</sub>: 4100 mg/kg IP mouse LD<sub>sc</sub>: 155 mg/kg IV mouse LD<sub>sc</sub>: 158 mg/kg IM mouse LD<sub>sc</sub>: 180 mg/kg IM guinea pig LD<sub>sc</sub>: 168 mg/kg IM guinea pig LD<sub>sc</sub>: 168 mg/kg DOSAGE AND ADMINISTRATION

DOSAGE AND ADMINISTRATION Organophosphate Poisoning Pralidoxime is most effective if administered immediately after poisoning. Generally, little is accomplished if the drug is given more than 36 hours after termination of exposure. When the poison has been ingested, however, exposure may continue for some time due to slow absorption from the lower bowel, and fatal relapses have been reported after initial improvement. Continued administration for several days may be useful in such patients. Close supervision of the patient is indicated for at least 48 to 72 hours. If dermal exposure has occurred, clothing should be removed and the hair and skin washed thoroughly with sodium bicarbonate or alcohol as soon as pos-sible. Diazepam may be given cautiously if convulsions are not controlled by atropine.<sup>71</sup> Severe poisoning (coma. cvanosis, respiratory depression) requires inten-

suite, utazepam may be given cautiously if convulsions are not controlled by atropine." Severe poisoning (coma, cyanosis, respiratory depression) requires inten-sive management. This includes the removal of secretions, airway manage-ment, the correction of acidosis, and hypoxemia. Atropine should be given as soon as possible atter hypoxemia is improved. Atropine should not be given in the presence of significant hypoxia due to the risk of atropine induced ventricular fibrillation. In adults, atropine may be given intravenous-ly in doses of 2 to 4 mg. This should be repeated at 5 to 10-minute intervals until full atropinization (secretions are inhibited) or signs of atropine toxici-ty appear (delirum, hyperhemmia, muscle twitching). Some degree of atropinization should be maintained for at least 48 hours, and until any depressed blood cholinesteras activity is reversed. Morphine, theophylline, aminophylline, and succinycholine are contraindicated. *After* the effects of atropine or phenothizatine type are to be avoided. *After* the effects of atropine become apparent, PROTOPAM (pralidoxime chloride) may be administered.

After the effects of atropine become apparent, PROTOPAM (pralidoxime chloride) may be administered. PROTOPAM Chloride Injection Parenteral drug products Stould be inspected visually for particulate matter and discoloration prior to administration, whenever solution and container permit. Discard unused Solution after a dose has been withdrawn. In adults, inject an initial dose of 1 to 2 g of IPROTOPAM, preferably as an infusion in 100 mL of saline, over a 15- to 30-minute period. If this is not practical or in pumonary edema is present, the dose should be given slowly by intravenous injection as a 5 percent solution in water over not less than inver minutes. After about an hour, a second dose of 1 to 2 g will be indicated if muscle weakness persists. Too-rapid administration may result in temporary worsening of cholinergic manifesta-dions ingetion rate should no exceed 200 my/minute. If intravenous administration is not teasable, intramuscular or subotaneous injection should be used. In severe cases, especially after ingestion of the poison, it may be desirable to monitor the effect of therapy electrocardiographically because of the pos-sibility of heart block due to the anticholinestrase. Where the poison hikelhood of continuing absorption from the lower bowel since this constitutes new exposure. In such cases, additional doses of PROTOPAM (pralidoxime) may be needed every three to eight hours. In effect, the patient should be 'titrat-ed' with PROTOPAM as long as signs of poisoning recur. As in all cases of organophosphate poisoning, care should be taken to keep the patient under observation for at least 24 hours.

If convulsions interfere with respiration, they may be controlled by the slow intravenous injection of diazepam, up to 20 mg in adults.

Intravenous injection of diazepam, up to 20 mg in adults. Antichalinesterase Overdosage As an antagonist to such anticholinesterases as neostigmine, pyridostigmine, and ambenonium, which are used in the treatment of myasthenia gravis, PROTOPAM may be given in a dosage of to 2 g intravenously followed by increments of 250 mg every five minutes.

#### **HOW SUPPLIED**

HOW SUPPLIED NDC 60977-141-01-Hospital Package: This contains six 20 mL vials of 1 g each of sterile PROTOPAM Chloride (pralidoxime chloride) white to off-white porous cake", without diluent or syringe. Solution may be prepared by adding 20 mL of Sterile Water for Injection. USP. These are single-dose vials for infravenous injection or for intravenous infusion after further dilution with physiologic saline. Intramuscular or subcutaneous injection may be used when intravenous injection is not feasible.

\*When necessary, sodium hydroxide is added during processing to adjust the pH

Storage Store at 20°-25°C (68°-77°F), excursions permitted to 15°-30°C (59°-86°F) [see USP Controlled Room Temperature].

ANIMAL PHARMACOLOGY AND TOXICOLOGY

The following table lists chemical and trade or generic names of pesticides, chemicals, and drugs against which PROTOPAM (usually administered in conjunction with atropine) has been found to have antidotal activity on the basis of animal experiments. All compounds listed are organophosphates having anticholinesterase activity. A great many additional substances are in industrial use but have been omitted because of lack of specific information.

# AAT-see PARATHION AFLIX®-see FORMOTH AAT-see PARATHION AFLIX®-see FORMOTHION ALKRON®-see PARATHION AMERICAN CYANAMID 3422-see PARATHION AMERICAN CYANAMID 3422-see PARATHION AMITON-diethyl-5-(2-diethylaminoethyl)phosphorothiolate ANTHIO®-see FORMOTHION APHAMITE-see PARATHION ARMIN-ethyl-4-nitrophenylethylphosphonate AZIINPHOS-METHYL-4-mitrophyl-2(4-oxo-1.2.3,-benzotriazin-3(4 H)-yi)methyl] phosphorodithioate MORPHOTHION-dimethyl-5-2-keto-2-(N-morpholyl)ethylphosphorodithioate NEGUVON®-see TRICHLOROFON NEGAW-See PARATHION NIRAN®-see PARATHION NITROSTIGMINE-see PARATHION O.O.DIETHYL-O-P-NITROPHENYL PHOSPHOROTHIOATE-see PARATHION O.O.DIETHYL-O-P-NITROPHENYLTHIÖ PHOSPHATE-see PARATHION OR 1191-see PHOSPHAMIDON OR 1191-see PHOSPHAMIDON OS 1836-see VINVLPHOS OXYDEMETONMETHYL-dimethyl-S-2-(ethylsulfinyl) ethyl phosphorothiolate PARADXON-diethyl (4-nitrophenyl) phosphorothionate PARATHION-diethyl (4-nitrophenyl) phosphorothionate PENPHOS-see PARATHION PHENCAPTON-diethyl-S-(2-5dichlorophenylmercaptomethyl) phosphorodithioate PHOSDRIM=see MEXIPHOS PHOSP and the see MEXIPHOS PHOS-KIL-see PARATHION PHOSPHAMIDON-1 chloro - 1 diethylcarbarnoyi-1-propen-2-yi-dimethylphosphate PHOSPHOLINE IODIDE-see echothiophate iodide PHOSPHOLINE IODIDE-see echothiophate iodide PHOSPHOROTHIOIC ACID, 0,0-DIETHYL-0-p-NITROPHENYL ESTER-see PARATHION PLANTHION-see PARATHION OUELECTOX-see FENTHION RHODIATOX®-see PARATHION RUELENE®-4-terl-bulyL-2-chlorophenylmethyl-N-methylphosphoroamidate SBIIN=isongwul-gathylhiosphorofluoridate HUELENE<sup>®</sup>418r-0uly-2-childopheryimetmy-in-menyiphos SARIN-isopropi-methylphosphonofluoridate SHELL 0S 1836-see VINYLPHOS SHELL 2046-see MEVINPHOS SNP-see PARATHION SOMAN-pinacolyI-methylphosphonofluoridate SYSTOX®-diethyl-(2-ethylmercaptoethyl) phosphorothionate TEP-see TEPP TEP-see LEPP TEP-stereethyppro phosphate THIOPHOS-see PARATHION TIGUVON-see FANTHION TRICHLOROFON-dimethyl-1-hydroxy-2,2,2-trichloroethylphosphonate VAPONA-see DICHLORVOS VAPOPHOS-see PARATHION VINYLPHOS-diethyl-2-chloro-vinylphosphate

PROTOPAM (pralidoxime chloride) appears to be ineffective, or marginally effective, against poisoning by: CIODRIN® (alpha-methylbenzyl-3-(dimethoxyphosphinyloxy)-ciscrotonate)

DIMEFOX (tetramethylphosphorodiamidic fluoride)

DIMETHOATE (dimethyl-S-{N-methylcarbamoylmethyl]phosphorodithioate) METHYL DIAZINON (dimethyl-[2-isopropyl-4-methylpyrimidyl]-phospho-rothionate)

METHYL PHENCAPTON (dimethyl-S-[2,5-dichlorophenylmercaptomethyl]phosphorodithioate)

PHORATE (diethyl-S-ethylmercaptomethylphosphorodithioate)

SCHRADAN (octamethylpyrophosphoramide)

WEPSYN® (5-amino-1-[bis-(dimethylamino) phosphinyl]-3-phenyl-1,2,4-triazole). The use of PROTOPAM should, revertheless, be considered in any life-threat-ening situation resulting from poisoning by these compounds, since the lim-ied and arbitrary conditions of pharmacologic screening do not always accu-rately reflect the usefulness of PROTOPAM in the clinical situation.

#### CLINICAL STUDIES

The use of PROTOPAM (pralidoxime) has been reported in the treatment of human cases of poisoning by the following substances:

Azoarin	Methylparathion
Diazinon	Mevinphos
Dichlorvos (DDVP) with chlordane	Parathion
Disulfoton	Parathion and Mevinphos
EPN	Phosphamidon
Isoflurophate	Sarin
Malathion	Systox®
Metasystox I <sup>e</sup> and Fenthion	TÉPP
Methyldemeton	

Of these cases, over 100 were due to parathion, about a dozen each to malathion, diazinon, and mevinphos, and a few to each of the other compounds. REFERENCES

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51

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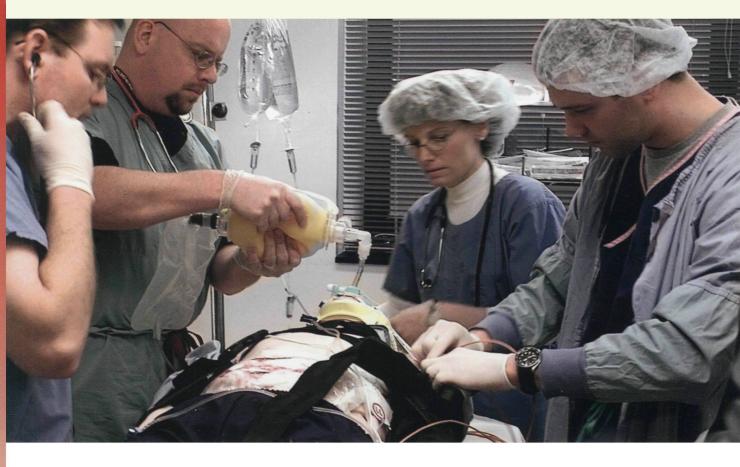
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 To Err Is Human: Building a Safer Health System/Linda T. Kohn, Janet M. Corrigan, and Molla S. Donaldson, Editors., © 2000 by the National Academy of Sciences.

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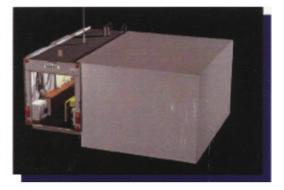


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