| Southern<br>Health  |   | REGIONAL ADULT PARENTERAL DRUG MONOGRAPH |                     |              |        |  |  |  |  |  |  |
|---|---|--|---------------------|--------------|--------|--|--|--|--|--|--|
|   |   | generic name<br><b>pralidoxime</b>       |                     |              |        |  |  |  |  |  |  |
| Effective Date:   | : Mar12-2014                            | CLASSIFICATION                           | OTHER NAMES         |              | PAGE   |  |  |  |  |  |  |
| Revised Date: January 2025  |   | Anticholinesterase<br>antagonist         | Protopam            |              | 1 of 3 |  |  |  |  |  |  |
| ADMINISTR   | RATION POI                              |  |                     |              |        |  |  |  |  |  |  |
| IV Bolus – May be administered by a nurse experienced in ED/Cardiac Room/ICU  |   |  |                     |              |        |  |  |  |  |  |  |
| IM Injection  |   |  |                     |              |        |  |  |  |  |  |  |
| IV Infusion – May be administered by a nurse experienced in ED/Cardiac Room/ICU   |   |  |                     |              |        |  |  |  |  |  |  |
| Subcutaneous – May be administered by a nurse experienced in ED/Cardiac Room/ICU  |   |  |                     |              |        |  |  |  |  |  |  |
| RECONSTITUTION/DILUTION/ADMINISTRATION:   |   |  |                     |              |        |  |  |  |  |  |  |
| Available as:   | 1 gram vi                               | al                                       |                     |              |        |  |  |  |  |  |  |
| Strength  | Volume of s                             | sterile water for injection*             | Final concentration | Final volume |        |  |  |  |  |  |  |
| 1gram   |   | 20 mL                                    | 50 mg/mL            | 20 mL        |        |  |  |  |  |  |  |
| <b>IV bolus:</b> Administer undiluted over at least 5 minutes (maximum 200 mg/minute)   |   |  |                     |              |        |  |  |  |  |  |  |
| IV intermittent: (preferred) Administer over 30 minutes   |   |  |                     |              |        |  |  |  |  |  |  |
| Dose  | Dose Preferred Diluent Volumes Bag size |  |                     |              |        |  |  |  |  |  |  |
| 1 1   | NaCl 0.9% or D5W                        |  |                     |              |        |  |  |  |  |  |  |
| ordered   | 100mL                                   |  |                     |              |        |  |  |  |  |  |  |
| IV Infusion:Add 1000 mg (20 mL of 50 mg/mL) in 50 mL normal saline bag.<br>Final volume: 70 mLFinal concentration: 14.3 mg/mL |   |  |                     |              |        |  |  |  |  |  |  |
| IM/Subcut:  | Administ                                | er undiluted.                            |                     |              |        |  |  |  |  |  |  |
| Strength  | Volume of s                             | sterile water for injection*             | Final concentration | Final volume |        |  |  |  |  |  |  |
| 1gram   |   | 3.3 mL                                   | 300 mg/mL           | 3.3 mL       |        |  |  |  |  |  |  |
|   |   |  |                     |              |        |  |  |  |  |  |  |
|   |   |  |                     |              |        |  |  |  |  |  |  |



## **REGIONAL ADULT PARENTERAL DRUG MONOGRAPH**

## GENERIC NAME **pralidoxime**

| An<br>mi<br>On<br>M<br>Io<br>I <b>M/Subcutaneous</b> : If<br>O<br>M<br>Sy<br>So<br>P   | V admin<br>Anticholi<br>ninutes a<br>Drganoph<br>Maintena<br>oading d<br>IM Prefe<br>Organoph<br>Mild sym<br>Severe sy<br>Persisten<br>administi               | as needed.<br><u>nosphate poisoning:</u> Load: 30 m<br>ance: IV infusion at 8 to 10 mg<br>dose within 1 to 2 hours then e<br>erred to subcutaneous administ<br>hosphate poisoning: 600 mg. H<br>nptoms: every 15 minutes up to<br>as develop<br>ymptoms: repeat twice in rapid<br>at symptoms: Repeat entire service<br>ration of last injection.<br>2 grams<br>12 grams   | k/kg/hour (maximum 650 mg/hour) OR<br>very 4 to 6 hours as needed   | oms:<br>ccession if severe<br>800 mg                        |
|--|--|--|---|---|
| DOSAGE:<br>Intravenous: IV<br><u>An</u><br>mi<br><u>On</u><br>M<br>lo<br>IM/Subcutaneous: IR<br>O<br>M<br>Sy<br>So<br>Pe<br>ac<br>Maximum single dose:<br>Maximum daily dose:  | V admin<br><u>Anticholi</u><br>ninutes a<br><u>Drganoph</u><br>Maintena<br>oading d<br>IM Prefe<br>Drganoph<br>Mild syn<br>Severe sy<br>Persisten<br>administr | istration preferred to IM<br><u>nesterase overdose:</u> 1 to 2 g IV<br>is needed.<br><u>nosphate poisoning:</u> Load: 30 n<br>ance: IV infusion at 8 to 10 mg<br>dose within 1 to 2 hours then e<br>erred to subcutaneous administ<br>hosphate poisoning: 600 mg. I<br>nptoms: every 15 minutes up to<br>s develop<br>ymptoms: repeat twice in rapid<br>at symptoms: Repeat entire service<br>ration of last injection.<br>2 grams<br>12 grams | ng/kg IV up to 2 g<br>g/kg/hour (maximum 650 mg/hour) OR<br>very 4 to 6 hours as needed<br>ration<br>Repeat dose based on severity of sympto<br>o maximum of 1,800 mg or in rapid suc                         | v every 5<br>repeat<br>oms:<br>ccession if severe<br>800 mg |
| Intravenous: IV<br><u>An</u><br>mi<br><u>On</u><br>M<br>lo<br>IM/Subcutaneous: If<br>O<br>M<br>Sy<br>So<br>A<br>A<br>Sy<br>So<br>A<br>A<br>M<br>Sy<br>So<br>A<br>A<br>A<br>M<br>N<br>A<br>A<br>M<br>A<br>A<br>M<br>A<br>A<br>M<br>A<br>A<br>M<br>A<br>A<br>M<br>A<br>A<br>M<br>A<br>A<br>M<br>A<br>A<br>A<br>M<br>A<br>A<br>A<br>M<br>A<br>A<br>A<br>M<br>A<br>A<br>A<br>M<br>A<br>A<br>A<br>A<br>M<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A | Anticholi<br>ninutes a<br><u>Organoph</u><br>Maintena<br>oading d<br>IM Prefe<br>Organoph<br>Mild syn<br>Severe sy<br>Persisten<br>administr                   | nesterase overdose: 1 to 2 g IV<br>is needed.<br><u>nosphate poisoning:</u> Load: 30 n<br>ance: IV infusion at 8 to 10 mg<br>dose within 1 to 2 hours then e<br>erred to subcutaneous administ<br>hosphate poisoning: 600 mg. I<br>nptoms: every 15 minutes up to<br>is develop<br>ymptoms: repeat twice in rapid<br>at symptoms: Repeat entire serv<br>ration of last injection.<br>2 grams<br>12 grams                                       | ng/kg IV up to 2 g<br>g/kg/hour (maximum 650 mg/hour) OR<br>very 4 to 6 hours as needed<br>ration<br>Repeat dose based on severity of sympto<br>o maximum of 1,800 mg or in rapid suc                         | oms:<br>ccession if severe<br>800 mg                        |
| An<br>mi<br>On<br>M<br>Io<br>I<br>I<br>M/Subcutaneous: If<br>O<br>M<br>Sy<br>So<br>Po<br>ac<br>Maximum single dose:<br>Maximum daily dose:   | Anticholi<br>ninutes a<br><u>Organoph</u><br>Maintena<br>oading d<br>IM Prefe<br>Organoph<br>Mild syn<br>Severe sy<br>Persisten<br>administr                   | nesterase overdose: 1 to 2 g IV<br>is needed.<br><u>nosphate poisoning:</u> Load: 30 n<br>ance: IV infusion at 8 to 10 mg<br>dose within 1 to 2 hours then e<br>erred to subcutaneous administ<br>hosphate poisoning: 600 mg. I<br>nptoms: every 15 minutes up to<br>is develop<br>ymptoms: repeat twice in rapid<br>at symptoms: Repeat entire serv<br>ration of last injection.<br>2 grams<br>12 grams                                       | ng/kg IV up to 2 g<br>g/kg/hour (maximum 650 mg/hour) OR<br>very 4 to 6 hours as needed<br>ration<br>Repeat dose based on severity of sympto<br>o maximum of 1,800 mg or in rapid suc                         | oms:<br>ccession if severe<br>800 mg                        |
| mi<br>Or<br>M<br>Io<br>I<br>M/Subcutaneous: If<br>O<br>M<br>Sy<br>So<br>Po<br>ac<br>Maximum single dose:<br>Maximum daily dose:  | ninutes a<br>Drganoph<br>Maintena<br>oading d<br>IM Prefe<br>Organoph<br>Mild syn<br>Symptom<br>Severe sy<br>Persisten<br>administi                            | as needed.<br><u>nosphate poisoning:</u> Load: 30 m<br>ance: IV infusion at 8 to 10 mg<br>dose within 1 to 2 hours then e<br>erred to subcutaneous administ<br>hosphate poisoning: 600 mg. H<br>nptoms: every 15 minutes up to<br>as develop<br>ymptoms: repeat twice in rapid<br>at symptoms: Repeat entire services<br>ration of last injection.<br>2 grams<br>12 grams  | ng/kg IV up to 2 g<br>g/kg/hour (maximum 650 mg/hour) OR<br>very 4 to 6 hours as needed<br>ration<br>Repeat dose based on severity of sympto<br>o maximum of 1,800 mg or in rapid suc                         | oms:<br>ccession if severe<br>800 mg                        |
| On<br>M<br>Id<br>IM/Subcutaneous: If<br>O<br>M<br>Sy<br>So<br>Po<br>ac<br>Maximum single dose:<br>Maximum daily dose:  | Drganoph<br>Maintena<br>oading d<br>IM Prefe<br>Organoph<br>Mild sym<br>Severe sy<br>Persisten<br>administr  | <u>hosphate poisoning:</u> Load: 30 marce: IV infusion at 8 to 10 mg<br>dose within 1 to 2 hours then e<br>erred to subcutaneous administ<br>hosphate poisoning: 600 mg. H<br>nptoms: every 15 minutes up to<br>s develop<br>ymptoms: repeat twice in rapid<br>at symptoms: Repeat entire service<br>ration of last injection. 2 grams<br>12 grams   | k/kg/hour (maximum 650 mg/hour) OR<br>very 4 to 6 hours as needed<br>ration<br>Repeat dose based on severity of sympto<br>o maximum of 1,800 mg or in rapid suc<br>I succession to delivery total dose of 1,8 | oms:<br>ccession if severe<br>800 mg                        |
| M<br>lo<br>IM/Subcutaneous: IN<br>O<br>M<br>Sy<br>So<br>Pe<br>ac<br>Maximum single dose:<br>Maximum daily dose:  | Maintena<br>oading d<br>IM Prefe<br>Organop!<br>Mild syn<br>Symptom<br>Severe sy<br>Persisten<br>administi   | ance: IV infusion at 8 to 10 mg<br>dose within 1 to 2 hours then e<br>erred to subcutaneous administ<br>hosphate poisoning: 600 mg. I<br>nptoms: every 15 minutes up to<br>as develop<br>ymptoms: repeat twice in rapid<br>at symptoms: Repeat entire ser-<br>ration of last injection.<br>2 grams<br>12 grams   | k/kg/hour (maximum 650 mg/hour) OR<br>very 4 to 6 hours as needed<br>ration<br>Repeat dose based on severity of sympto<br>o maximum of 1,800 mg or in rapid suc<br>I succession to delivery total dose of 1,8 | oms:<br>ccession if severe<br>800 mg                        |
| lo<br>IM/Subcutaneous: IN<br>O<br>M<br>Sy<br>So<br>Po<br>ac<br>Maximum single dose:<br>Maximum daily dose:   | oading d<br>IM Prefe<br>Organopl<br>Mild syn<br>Symptom<br>Severe sy<br>Persisten<br>administr   | lose within 1 to 2 hours then e<br>erred to subcutaneous administ<br>hosphate poisoning: 600 mg. I<br>nptoms: every 15 minutes up to<br>s develop<br>ymptoms: repeat twice in rapid<br>at symptoms: Repeat entire serv<br>ration of last injection.<br>2 grams<br>12 grams   | very 4 to 6 hours as needed<br>ration<br>Repeat dose based on severity of sympto<br>o maximum of 1,800 mg or in rapid suc<br>I succession to delivery total dose of 1,8                                       | oms:<br>ccession if severe<br>800 mg                        |
| O<br>M<br>Sy<br>Se<br>Pe<br>ac<br>Maximum single dose:<br>Maximum daily dose:  | Organop<br>Mild syn<br>symptom<br>Severe sy<br>Persisten<br>administr  | hosphate poisoning: 600 mg. I<br>nptoms: every 15 minutes up to<br>as develop<br>ymptoms: repeat twice in rapid<br>at symptoms: Repeat entire ser<br>ration of last injection.<br>2 grams<br>12 grams  | Repeat dose based on severity of sympton<br>o maximum of 1,800 mg or in rapid succession to delivery total dose of 1,8  | ccession if severe<br>800 mg                                |
| Maximum daily dose:  |  | 12 grams   |   |   |
| Maximum rate:  |  |  |   |   |
|  |  | IV bolus/IV intermittent:  | 200 mg/minute   |   |
|  |  | IV infusion:   | 650 mg/hour   |   |
| Maximum concentration:   |  | IV bolus/IV intermittent:  | 50 mg/mL  |   |
|  |  | IV continuous:   | 20mg/mL   |   |
|  |  | IM/subcut:   | 300 mg/mL   |   |
| STABILITY/COMPA  | ATIBIL   | ITY:   |   |   |
| Stability of reconstitut   |  | •  |   |   |
| Stability of Final Adm   | nixture:   | Use immediately  |   |   |
| Compatibility:   |  | Compatible with normal sal   | ne  |   |
|  | TENTI  | AL ADVERSE REACTION  |   |   |
| • Although it is diffiatropine or the inset  | ficult to of<br>secticide  | differentiate the side effects of itself, the following have been  | pralidoxime administration from those<br>n reported from large doses in normal v  |   |
| Dizziness, drowsin   |  |  |   |   |
| •  | piopia, ii   | mpaired accommodation  |   |   |
| <ul><li>Nausea</li><li>Tachycordia larwn</li></ul>   | n  | m mucolo risidity and transis  | nt nouromucoulor blocks de suith regist   | Winighting  |
| • •  |  | ÷ •  | nt neuromuscular blockade with rapid I  | i v injection   |
| • Mild pain at inject  | tion site  | with five injection  |   |   |



## REGIONAL ADULT PARENTERAL DRUG MONOGRAPH

## GENERIC NAME pralidoxime

| Effective Date: Mar12-2014  | CLASSIFICATION     | OTHER NAMES | PAGE   |  |  |  |  |
|---|--------------------|-------------|--------|--|--|--|--|
|   | Anticholinesterase | Protopam    | 2 62   |  |  |  |  |
| Revised Date: January 2025  | antagonist         |             | 3 of 3 |  |  |  |  |
| ADDITIONAL NOTES AND NURSING CONSIDERATIONS:  |                    |             |        |  |  |  |  |
| Required monitoring   |                    |             |        |  |  |  |  |
| o Reversal of symptoms of toxic exposure to organophosphate pesticides and chemicals (e.g. muscle             |                    |             |        |  |  |  |  |
| fasciculations, weakness, paralysis, tachycardia, hypertension)   |                    |             |        |  |  |  |  |
| <ul> <li>Continuous Cardiac</li> </ul>  |                    |             |        |  |  |  |  |
| • Temperature, blood pressure, heart rate, respiratory rate and oxygen saturation at baseline and as          |                    |             |        |  |  |  |  |
| clinically indicated  |                    |             |        |  |  |  |  |
| • Pralidoxime for organophosphate poisoning must be administered with concurrent atropine in order to prevent |                    |             |        |  |  |  |  |
| worsening symptoms due to transient oxime-induced acetylcholinesterase inhibition.                            |                    |             |        |  |  |  |  |
| • Treatment is most effective if given within a few hours after poisoning                                     |                    |             |        |  |  |  |  |
| Concomitant atropine use is needed in most cases of organophosphate poisoning                                 |                    |             |        |  |  |  |  |
| • Therapeutic endpoint: control of muscle fasciculations, paralysis, respiratory failure                      |                    |             |        |  |  |  |  |
| • Reduce dose in renal insufficiency; however, no dosing guidelines are available                             |                    |             |        |  |  |  |  |
| • Use with caution in patients with myasthenia gravis who are receiving anticholinesterase agents             |                    |             |        |  |  |  |  |