

Nova Scotia Antidote Program Quarterly Report: Jan 1st- Mar 31st 2015

The Nova Scotia Antidote Kit program is pleased to present another Quarterly Report, which provides information on changes and trends in antidote therapy and reports ongoing Provincial Antidote usage.

Antidote usage Jan 1 st –Mar 31 st 2015											
DHA1	DHA2	DHA3	DHA4	DHA5	DHA6	DHA7	DHA8	DHA9	IWK	Quarterly Total	Total To Date
1	0	2	1	0	1	0	5	15	1	26	*544

DHA1=South Shore, DHA2= Yarmouth, DHA3= Valley, DHA4=Colchester, DHA5=Cumberland, DHA6=Pictou, DHA7=Antigonish, DHA8=Cape Breton, DHA9=Capital Health *Total to date includes antidotes used in DHA9 & IWK since 2006

New Health Authorities

As of April 1st, Nova Scotia has only 2 District Health Authorities (DHA). Despite these major changes, I will remain as Provincial Antidote Kit Coordinator and will ensure continuity of the Antidote Program.

Severe Calcium Channel Blocker (CCB) Overdose

High dose insulin therapy is the antidote of choice for hypotension in CCB overdose. With severe overdoses, it is sometimes necessary to administer doses even higher than 1 unit/kg/hour. We recently had a case that required 10 units/kg/hour. With insulin infusions of greater than 1 unit/kg/hour it is recommended to administer a concentrated solution for both the insulin and the dextrose infusions. This is to decrease the risk of fluid overload, especially in light of a possible decrease in kidney perfusion. The online monograph describes how to mix a more concentrated solution for administration through a central venous catheter.

Antidote Stock List

A new Antidote Stock list has been developed that combines the 2 separate stock lists into one. Please review the new stock list that is attached to this report.

Recommended Antidotes and Quantities for Nova Scotia Health Authority Emergency Departments

Antidote	Poison	Quantities Recommended		Stock for 70 kg patient x 24 h	Comments
		Full Kit ^a Qty & Stock Location (kit or ED)	Modified Kit ^b Qty & Stock Location (kit or ED)		
Acetylcysteine (6 g/30 mL vial)	Acetaminophen	12 vials ED ward stock	12 vials ED ward stock	5 vials	
Atropine (0.6 mg/mL ampoule)	Organophosphate insecticides	160 ampoules ^c Antidote kit	160 ampoules ^c Antidote kit	1600 ampoules	
Black Widow spider antivenin (Antivenin Latrodectus Mactans) (1 vial)	Black Widow spider	None	None	1 vial	1 vial HI Pharmacy only Refrigerator item To acquire more vials in an emergency situation: Merck Emergency Line 1-800- 463-7251 Special access- fill out forms
Calcium chloride (1 g/10 mL syringe)	Calcium channel blocker	8 syringes Antidote kit	8 syringes Antidote kit	10 syringes	
Calcium gluconate (2.5% gel) (1 g/10 mL ampoule)	Hydrofluoric acid burn	2 tubes 25 ampoules Antidote kit	1 tube 25 ampoules Antidote kit	1 tube (30 g) 25 ampoules	KY Jelly stocked in antidote kit (2 x 56 g tubes)
Deferoxamine (Desferrioxamine) (2 g vial)	Iron	3 vials Antidote kit	2 vials ^c Antidote kit	3 vials	
Digoxin immune Fab (40 mg vial)	Digoxin	6 vials Antidote Fridge Kit	6 vials Antidote Fridge Kit	20 vials	Refrigerator item 14 additional vials stocked in HI pharmacy
Dimaval (RS)-2,3-Bis(sulfanyl) propane-1- sulfonic acid, sodium salt 1 H ₂ O 250 mg sodium salt /5 mL ampoule	Arsenic, Gold, Lead, Mercury	2 ampoules ^c Antidote kit	1 ampoule ^c Antidote kit	6 ampoules	Special Access – fill out forms
Fat emulsion (lipids) 20% (Intralipid brand)	Local anesthetics	2 x 500 mL Antidote kit	2 x 500 mL Antidote kit	560 mL	
Flumazenil (0.5 mg/5 mL vial)	Benzodiazepines	5 vials ^c ED ward stock	5 vials ^c ED ward stock	20 vials	

a All Regional Hospital EDs stock Full Kits

b ED sites (outside the Regional ED) may stock Full or Modified Kits

c in the event of an overdose, additional stock will need to be obtained

Updated April 20, 2015

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Antidote	Poison	Quantities Recommended		Stock for 70 kg patient x 24	Comments
		Full Kit ^a Qty & Stock Location (kit or ED)	Modified Kit ^b Qty & Stock Location (kit or ED)		
Fomepizole (1.5 g/1.5 mL vial)	Ethylene glycol Methanol	2 vials ^c Antidote kit	1 vial ^c Antidote kit	4 vials	Additional vials stocked in HI Pharmacy
Glucagon (1 mg kit)	Beta-blockers, Calcium channel blockers	40 kits ^c Antidote kit	40 kits ^c Antidote kit	100 kits	
Hydroxocobalamin (Cyanokit) 1 x 5 g vials	Cyanide	1 x 5 g vials Antidote kit	1 x 5 g vials Antidote kit	2 kits	
Insulin-Regular 100 units/mL	Calcium channel blockers, Beta-blockers	2 x 10 mL ED ward stock	2 x 10 mL ED ward stock	2 vials	Refrigerator item
Methylene blue (50 mg/5 mL vial)	Anilines, Nitrates, Nitrites (methemoglobinemia)	10 vials Antidote kit	3 vials ^c Antidote kit	10 vials	
Naloxone (0.4 mg/mL ampoule)	Opioid narcotics	40 ampoules ^c Antidote kit	25 ampoules ^c Antidote kit	75 ampoules	
Octreotide (100 mcg/mL ampoule)	Sulfonylurea (hypoglycemia)	4 ampoules Antidote Fridge Kit	1 ampoule ^c Antidote fridge kit	2 ampoules	Refrigerator item
Pralidoxime (2-PAM) (1 g vial)	Anticholinesterases, Organophosphate insecticides	2 vials ^c Antidote kit	2 vials ^c Antidote kit	12 vials	Special Access – fill out forms
Pyridoxine (Vitamin B ₆) (3 g/30 mL vial)	Isoniazid	7 vials Antidote kit	4 vials ^c Antidote kit	7 vials	
Sodium bicarbonate 8.4% (50 mEq/50 mL syringe)	Cyclic antidepressants Salicylates (Urine Alkalinization)	20 syringes ED ward stock	20 syringes ED ward stock	10 syringes	
Sodium thiosulfate 25% 250 mg/mL (100 mL vial)	Cyanide	None	None	1 vial	1 vial HI Pharmacy only

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**IN OVERDOSE EMERGENCY CALL IWK REGIONAL POISON CENTRE:
(902) 470-8161 OR 1-800-565-8161**