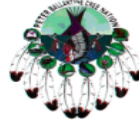


NORTHERN INTER-TRIBAL HEALTH AUTHORITY INC.



Standing Orders for Management of Anaphylaxis For Community Health Nurses and Home Care Nurses in NITHA Communities

Approved By: Dr. Nnamdi Ndubuka

Date Issued: October 1, 2015

Distribution: Community Health Nurses and Health Centers in NITHA

Management of Anaphylaxis in Non-Hospital Setting: Epinephrine

Table 1: Epinephrine: Appropriate Dosages According to Age and Weight

Dose: 0.1mL/kg body weight to a maximum of 0.5mL		
Age	Weight (Kg)	Dose (IM)
1-6 months	under 8 kg	0.05 mL
7 months-2 years	8-12 kg	0.1 mL
3-4 years	13-17 kg	0.15 mL
5-6 years	18-22 kg	0.2 mL
7-8 years	23-27 kg	0.25 mL
9-10 years	28-32 kg	0.3 mL
11 years	33-37 kg	0.35 mL
12 years	38-45 kg	0.4 mL
≥13 years	46 kg	0.5mL

Adapted from Immunization Action Coalition, Medical Management of Vaccine Reactions in Children and Teens

Considerations

- If body weight is known, then dosing by body weight is preferred.
- If body weight is unknown, or not readily available, dosing by age is appropriate.
- Epinephrine (1:1000) dosage is calculated by body weight at 0.01 mL/kg, up to a **maximum of 0.5 mL given by IM injection.**
- **Preferred route:** Intramuscular (IM) is the recommended route for administration
- **Preferred site:** Mid-anterolateral aspect of the thigh (vastus lateralis) is recommended site of injection
- **Repeat doses:** In an ongoing life threatening or clinically worsening situation, epinephrine may be repeated every 5- intervals for a maximum of three (3) doses.
- For an elderly person in full anaphylactic shock, the full dose of 0.5 ml is appropriate

Management of Anaphylaxis in Non-Hospital Setting: Diphenhydramine Hydrochloride (Benadryl)

Table 2: Diphenhydramine Hydrochloride: Appropriate Dosages According to Age and Weight

Dose: 1-2mg/kg body weight to a maximum single dose of 50mg		
Age	Weight (Kg)	Dose (IM)
7-23 months	7-10 kg	0.2 mL
2-4 years	11-15 kg	0.3 mL
5-7 years	16-20 kg	0.4 mL
8-9 years	21-30 kg	0.6 mL
10-12 years	31-40 kg	0.8 mL
≥13 years	≥41 kg	1mL

Adapted from Immunization Action Coalition, Medical Management of Vaccine Reactions in Children and Teens

Considerations:

- If body weight is known, then dosing by body weight is preferred.
- If body weight is unknown, or not readily available, dosing by age is appropriate
- **IM administration of Benadryl is recommended during anaphylaxis because it provides more rapid absorption and high plasma levels than oral administration**
- **IM Benadryl is considered adjuvant second-line therapy in the management of anaphylaxis and should not be administered alone.**
- **Maximum single dose is 50 mg IM**
- Intramuscular Benadryl, use deep IM injection: Adults 22 gauge: needle length 1.5 - 2"; Children 23 gauge: needle length 1" needle.

References:

- Health Canada, Canadian Immunization Guide, 7th Edition. Canadian Medical Association, Ottawa, 2006. *Anaphylaxis: Initial Management in Non-Hospital Settings*, p 80-84 <http://www.phac-aspc.gc.ca/publicat/cig-gci/p02-03-eng.php>
- Saskatchewan Drug Information Service, College of Pharmacy and Nutrition, U of S, Saskatoon
- Saskatchewan Immunization Manual 2015. Chapter 12: Anaphylaxis Management
- Immunization Action Coalition, Medical Management of Vaccine Reactions in Children and Teens www.immunize.org/catg.d/p3082a.pdf



Dr. Nnamdi Ndubuka
Medical Health Officer