Recommendations for Administration of Rabies Post Exposure Prophylaxis (Rabies PEP) Page 1 of 2



Durham Health Connection Line 905-668-2020 or 1-800-841-2729 durham.ca/rabies

PEP includes BOTH Rabies Immune Globulin (RIG) and Rabies Vaccine

Video on HOW to administer Rabies Immune Globulin and Rabies Vaccine https://www.youtube.com/watch?v=yCuTF3hVt-o&feature=youtu.be











Administration of Rabies Immune Globulin (RIG) - HyperRab® / ImoGam® / KamRAB® Administration of Rabies VACCINE on next page

Dose Calculation for Maximum RIG volume based on weight of client: NOTE: three different RIG products currently available: calculations will be based on product availability

- For 1ml vial (300 IU/ml product) = 20 IU/kg x (client weight in kg) ÷ 300 IU/ml= maximum volume (ml)
- For 2ml vial (150 IU/ml product) = 20 IU/kg x (client weight in kg) ÷ 150 IU/ml= maximum volume (ml)

RIG is only administered on First Day (Day 0) of PEP schedule at same time as first dose of Rabies Vaccine

Client Age	Administration Site				Max	Needl	e Size	Route	
				ocation as possible site as the vaccine	Vol per Site	Length	Gauge		
	Ideal Multiple Un Location Wound Sites			Unknown wound location (bat in room)		If it is necessary to use the same muscle to administer more than one injection, the distance separating the two injections should be 2.5 - 5 cm (1-2 inches)			
Infant under 12	As much of the RIG as possible	Each wound location	may be needed. When using	Ventrogluteal ¹	1 ml	7/8"–1 "	25	IM	
months	should be infiltrated into the	should be infiltrated with		Vastus lateralis	1 ml	7/8″–1 ″	25		
Children	wound and surrounding area	a portion of the RIG using a separate syringe should	Ventrogluteal ¹	1 ml	1"	22-25	IM		
1 yr. – 4 yrs.	(IM) if anatomically			Vastus lateralis	2 ml	1"	22-25		
	possible (up to the maximum RIG	needle and syringe. RIG	be used for each	Deltoid ²	1 ml	1"	22-25		
Children	volume).	can be diluted The decision	The decision	Ventrogluteal ¹	3 ml	1″- 1½"	20-25	IM	
5 yr. – 18 yrs.	This is a clinical decision made at	twofold to threefold in a	regarding	Deltoid ²	1 ml	1″	22-25		
	the time according	solution of	number of injections and	Vastus lateralis	3 ml	1″- 1½"	20-25		
Adults	to size, depth and location of wound.	0.9% sodium chloride if	maximum volume to be administered at	Ventrogluteal ¹	4 ml	1" - 1½"	20-22	IM	
19 yrs. +	Only the left over	necessary		Deltoid ²	2 ml	1" - 1½"	20-22		
RIG (if wound is small) should be given IM. (Up to the maximum RIG volume).	maximum RIG	each location should be based on the age and assessed muscle mass of the individual.	Vastus lateralis	5 ml	1" - 11/2"	20-22			

- 1. The ventrogluteal muscle is the preferred site for administration of immune globulin for everyone 7 months of age and older when wound location is unknown.
- 2. One deltoid should be reserved for the administration of rabies vaccine (only). The alternate deltoid may be used for RIG.

4	Adverse	Reactions	to HyperRah	® or ImoGam®

- Local tenderness, soreness, stiffness of the muscles at the injection site itching and swelling may occur ☐ Anaphylaxis is rare
- Fever, skin reactions, chills, nausea, vomiting, headache, malaise may occur

Adverse Reactions to KamRAB®

- Pain at the site of injection, headache, muscle pain, upper respiratory tract infection
- Fever, chills, dark urine, joint pain, dizziness, fatique, abdominal pain, nausea, feeling faint, bruising, sunburn may occur
- Serious allergic reactions/anaphylaxis is rare

SOURCES: http://www.bccdc.ca/ www.phac-aspc.gc.ca www.novartis.ca www.sanofipasteur.ca www.fda.gov www.valneva.ca

Recommendations for Administration of Rabies Post Exposure Prophylaxis (Rabies PEP) Page 2 of 2

Administration of Rabies Vaccine - RabAvert® OR ImoVax®

Administration of Rabies Immune Globulin on previous page

Dose/Schedule:

• Immunocompetent people:

<u>Four</u> doses of 1.0 mL of Rabies vaccine, the first dose (on day 0) as soon as possible after exposure and additional doses on each of days 3, 7, and 14 after the first dose. (**Day 0, 3, 7 and 14**)

- **Immunocompromised people**: (includes those taking corticosteroids or other immunosuppressive agents, those with immunosuppressive illnesses) and those taking chloroquine and other antimalarial drugs: Five doses of 1.0 mL of Rabies vaccine. (**Day 0, 3, 7, 14 and 28**)
- Previously Immunized Individual: Two doses of 1.0 mL of Rabies vaccine. (Day 0 and 3)

RabAvert®

- Using longer of 2 needles provided, withdraw diluent
- Inject into vaccine mix avoid foaming
- White, freeze dried vaccine dissolves to clear or slightly opaque
- After reconstitution unscrew syringe to equalize pressure
- Withdraw total amount into syringe and then change to smaller needle (provided)

Imovax®:

• Use only the supplied diluent – withdraw entire volume into the syringe, inject all the contents into the vial of lyophilized vaccine and gently swirl the contents until completely dissolved. (Refer to syringe size on opposite side of page)

Administration Sites / Needle Size								
Client Age	Needle	Size	Route	Max Vol	Site			
	Length	(gauge)		per Site	*Never administer into gluteal region			
		(33-)		F	*Vaccine should never be administered			
					in the same site as the RIG			
Infant under	7/8"– 1"	25	IM	1 ml	Vastus lateralis			
12 months					(Anterolateral thigh)			
Children 1 yr 18 yrs.	1"	25	IM	1 ml	Deltoid			
Adults 19 yrs.+	1" – 1½"	25	IM	2 ml	Deltoid			

Contraindications

 There is no contraindication to the use of rabies vaccine or RIG if indicated following exposure to a possibly rabid animal. Consultation should be sought regarding the administration of vaccine and immunoglobulin to individuals with a history of an allergy to any of the constituent.

Adverse Reactions to the Rabies Vaccine

RabAvert®:

- Very Common ≥10%: injection site pain and reaction
- Common >1 to <10%: dizziness, headache, malaise, arthralgia, fever, asthenia, fatigue, ILI, rash, myalgia, GI symptoms, IS erythema, lymphadenopathy
- Rare, less than 1 / 10,000 individuals: anaphylaxis

ImoVax® Rabies:

- Very Common ≥10%: headache, nausea, myalgia, malaise, injection site pain, erythema, induration and hematoma
- Common >1 to <10%: dizziness, abdominal pain, vomiting, diarrhea, arthralgia, fever, chills, allergic type reaction, IS pruritus, adenopathy