COLORADO
Department of Public Health & Environment

Rabies Post-Exposure Prophylaxis Protocol

Human Rabies Immune Globulin (HRIG or RIG)

HRIG is for intramuscular use only and shall only be given at the beginning of treatment at the same time as the first vaccine. The HRIG should be infiltrated into and around the site of the wound(s) as promptly as possible after an exposure. Any remaining HRIG should be injected intramuscularly (IM) in the deltoid muscle of the upper arm or lateral thigh muscle, using a separate needle, at an anatomical site distant from vaccine administration. If there is no visible wound or known bite site (i.e., bat in bedroom), HRIG should be given IM at an anatomical site distant from vaccine administration. The gluteal region is not a recommended injection site, due to the risk of injury to the sciatic nerve.

The recommended dose for HRIG is 20 IU/kg (or 9 IU/lb.) of body weight for adults and children. It is supplied in two concentrations, depending on the manufacturer.

HyperRAB 300

HyperRAB 300 by Grifols is supplied in concentration of 300 IU/mL and is packaged in 1mL and 5mL single dose vials.

If using HyperRAB 300, calculate the recommended dose by taking the patient's weight in kilograms and multiply it by 0.0665 (or multiply the patient's weight in pounds by 0.03).

Patient's weight in **kilograms**:	_____	x 0.0665 =	_____	mL of HRIG
Patient's weight in **pounds**:	_____	x 0.0302 =	_____	mL of HRIG

- Example #1: A 100-kilogram person would require a dose of 6.7 (100 x 0.0665 = 6.7 mL)
- Example #2: A 100-pound person would require a dose of 3.0 mL (100 x 0.03 = 3.1 mL)

Kedrab, Imogam, HyperRAB S/D

Kedrab by Kedrion Biopharma, Imogam by Sanofi Pasteur, and HyperRAB S/D by Grifols are supplied in concentration of 150 IU/mL and are packaged in 2 mL and 10 mL single dose vials.

If using **Kedrab**, **Imogam**, or **HyperRAB S/D**, the dose is calculated by taking the patient's weight in kilograms and multiply it by 0.133 (or multiply the patient's weight in pounds and multiply it by 0.06).

Patient's weight in **kilograms**:	_____	x 0.133 =	_____	mL of HRIG
Patient's weight in **pounds**:	_____	x 0.06 =	_____	mL of HRIG

- Example #1: A 100-kilogram person would require a dose of 13.3 mL (100 x 0.133 = 13.3 mL)
- Example #2: A 100-pound person would require a dose of 6.1 mL (100 x 0.06 = 6.1 mL)

Although it is preferable to give HRIG at the beginning of treatment, it can be given up to 7 days after starting the vaccine series, but no later. After 7 days, and three doses of rabies vaccine, HRIG is no longer needed.

Do not exceed the recommended dose since HRIG can suppress active production of the antibody response. Also, HRIG should never be administered in the same syringe or into the same anatomical site as the vaccine.

Rabies Vaccine

The rabies vaccine series requires four doses, 1.0 ml each, given intramuscularly in the deltoid region or lateral thigh on days 0, 3, 7, and 14. It is important that the rabies vaccine be given as scheduled. The gluteal area should never be used because administration in this area results in lower neutralizing antibody titers.

Any person previously immunized (adequately with pre-exposure or post-exposure) should not be given HRIG or the entire vaccination series. It is recommended that previously immunized patients receive boosters of the vaccine on days 0 and 3.

A 5th dose of the rabies vaccine (on day 28) is indicated for immunosuppressed patients.

Rabies Post-Exposure Prophylaxis Log Sheet

All wounds should be cleaned with soap and water immediately and thoroughly.

Tetanus prophylaxis and other anti-bacterials should be given if indicated. HRIG should never be administered in the same syringe or into the same anatomical site as the rabies vaccine.

Patient name:		DOB:
Exposure type:		Exposure date:
HRIG mLs given:	Site(s) given:	Date:

Do not exceed the recommended dose, since HRIG can suppress active production of the antibody response. Also, HRIG should never be administered in the same syringe or into the same anatomical site as the vaccine.

Rabies Vaccine 1.0 ml (adult and pediatric dose)

The gluteal area should never be used because administration in this area results in lower neutralizing antibody titers.

Date started			2nd dose of vaccine			
Day 0	1	2	**Day 3**	4	5	6
3rd dose of vaccine						
Day 7	8	9	10	11	12	13
4th dose of vaccine						
Day 14						

For assistance with risk assessment, contact your local health department or Colorado Department of Public Health & Environment, Communicable Disease Branch at 303-692-2700.