RESCUE THERAPIES

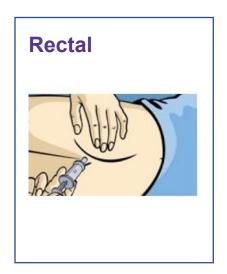
Antiseizure medications (ASM) used "prn" or "as needed"

- o Not used in place of daily medications or emergency care
- o For use by non-medical people outside of health care setting

When are they used?

- To stop cluster seizures or acute repetitive seizures
- To stop seizures lasting longer than usual
- When seizures differ from their usual type/pattern
- o For breakthrough seizures during high-risk times
- To prevent emergencies

How Are Rescue Therapies Given?







Follow Seizure Action Plan and prescription to confirm drug, dose, and how to administer it!

Before Using a Rescue Therapy

- o Know the student's typical seizure type, pattern, triggers
- Be able to recognize atypical seizures
- o Be aware of a student's allergies
- Collaborate with health care team:
 - · Appropriate seizure first aid
 - Need for rescue therapy
 - Need for EMS
 - Develop/update Seizure Action Plan

Rectal Medications (Diazepam Rectal Gel - Diastat Acudial)

- o Can be used by children (2 years and older) and adults
- o Sleepiness is the most commonly reported event in clinical trials (23%)
- o Respiratory depression is NOT a common problem
- Specifically designed to be administered by a layperson
- o Pre-measured syringe

Advantages

- Can be used in conscious or unconscious person
- o Is rapidly absorbed
- Avoids nausea or vomiting
- Easy and safe to use

Disadvantages

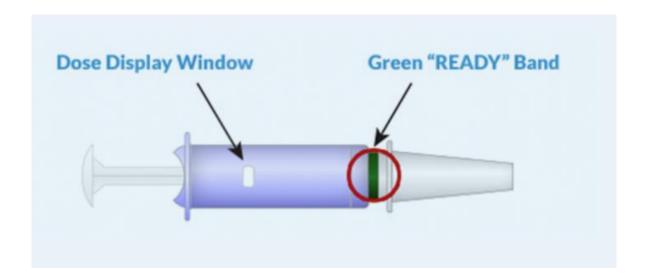
- Not acceptable by some people
- Usually need someone to give it
- Hard to give to a large person, someone in a wheelchair, or to a person moving
- Absorption may not be consistent



How to Administer

- Turn the person on their side so they are facing you (or the person who will be giving it)
- Get the medicine out of the package and check the dose of the medicine with the physician's order (refer to the Seizure Action Plan)
- Remove the cap from the syringe and make sure that the "seal pin" is removed with the cap
- o Put lubricating jelly on the tip of the syringe
- o Fix the person's clothes and bend the upper leg forward so the rectum can be seen
- Spread the cheeks of the buttocks and gently insert the tip of the syringe into the rectum
- Push the plunger on the syringe in and slowly count to 3. Count to 3 again before removing the syringe
- Then squeeze the buttocks together and count to 3 to prevent leaking of the medicine
- Fix the person's clothes back to normal
- Follow the physician's recommendations for observing the person afterwards

Store: room temperature



HOW TO ADMINISTER AND DISPOSAL





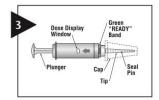




Put person on their side where they can't fall.



Get medicine.



Get syringe.

Note: Seal Pin is attached to the cap.



Push up with thumb and pull to remove cap from syringe. Be sure Seal Pin is removed with the cap.



Lubricate rectal tip with lubricating jelly.



Turn person on side facing you.



Bend upper leg forward to expose rectum.



Separate buttocks to expose rectum.



Gently insert syringe tip into rectum. Note: Rim should be snug against rectal opening.



Slowly count to 3 while gently pushing plunger in until it stops.



Slowly count to 3 before removing syringe from rectum.



Slowly count to 3 while holding buttocks together to prevent leakage.

ONCE DIASTAT® IS GIVEN

Keep person on side facing you, note time given and continue to observe.

Sublingual or Buccal Rescue Medicines

Advantages

- Rapid absorption
- Dissolves easily
- Enters blood directly
- No refrigeration
- Easy to carry

Disadvantages

- Can be inconvenient
- Potential irritation of mucus membrane
- May swallow medicine
- Inconsistent absorption if swallowed during seizure
- Taste
- o Liquid may need refrigeration
- Risk of aspiration
- o Risk of being bitten

Sublingual or Buccal Benzodiazepines: How to Use

When to Administer

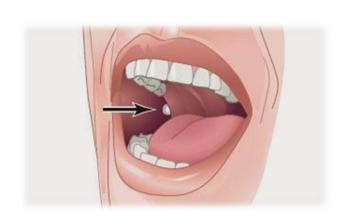
- Avoid giving during loss of awareness
- Can be given between seizures, during clusters of any seizure type, or during focal aware seizure

How to Administer

- Forms: disintegrating tablets (clonazepam), regular tablets (both), liquid (lorazepam)
- Gloves may be used if desired
- o Place tablets or liquid under or on tongue, or between cheek and gum

Store: tablets at room temperature, protect from light; liquid may need refrigeration





Intranasal Medications: Diazepam & Midazolam

- o FDA-approved medicines are pre-packaged
- o Drug delivery systems from compound pharmacies may differ
- May require medicine to be drawn up by nurse or caregiver from a vial of liquid medicine
- Some may have pre-filled syringes
- Nasal atomizer may be attached or obtained separately
- o Dosage & storage may vary by preparation
- o Should be clearly stated on student's seizure action plan
- Nasal Diazepam Valtoco®
 - Indicated for acute treatment of stereotypic episodes of frequent seizure activity
 - Approved for people age 6 and >
 - o Intended to be given by patient or caregiver
 - Each spray for one-time use (5 mg, 7.5 mg, 10 mg in 0.1 ml sprayer)
 - Dose varies by weight and age
 - Second spray used if needed 4 hrs after first dose
 - o Side effects may include: sleepiness, headache, nasal discomfort

Nasal Midazolam - Nayzilam®

- Approved for use in people with epilepsy 12 years of age and older
- Indicated for acute treatment of intermittent, stereotypic episodes of frequent seizure activity, such as seizure clusters, acute repetitive seizures
- Events are distinct from a person's usual seizure pattern
- o Intended to be given by patient or caregiver
- Each spray for one-time use, 5 mg/0.1 ml spray
- Second spray used if seizure persists after 10 min
- Side effects may include: sleepiness, headache, nasal discomfort, runny nose, throat irritation





Advantages

- o Rich blood supply gives direct route into blood stream
- Rapid absorption
- o Rates of absorption and plasma concentrations comparable:
- o IV
- o Better than SQ and IM
- o Easy to use, convenient, safe

Disadvantages

- Special delivery apparatus
- o Volume limitations < 0.2 ml
- Consider head position
- o Potential for drainage
- o Possible irritation of nose
- o Needs patient cooperation?
- Needs patent airway

Vagus Nerve Stimulation (VNS)

- Approved for treatment of epilepsy when medicines don't work, surgery doesn't work or not feasible
- Magnet form of intervention to abort seizure
- Used for any seizure type
- Provides on-demand stimulation
- To stop seizure: swipe magnet over generator implanted in chest, count 1–1,000–1,
- o To stop stimulation: tape magnet over generator



