

REGIONAL SCHOOL DISTRICT

Empowering Students to Achieve Excellence

Annual Staff Education

Seizure Disorders

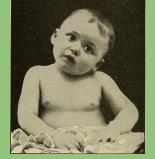
- A seizure occurs when the brain incorrectly fires electrical signals.
- It is estimated that approximately 5 out of every 1000 elementaryage school children have a chronic health condition known as epilepsy, which causes repetitive seizures.
- Epilepsy is diagnosed by an electroencephalogram (EEG).
- A seizure disorder can look different for every child and affects his physical, emotional, and social health.
- The student and his family will require support from the school nurse, the counselor, his teacher, and even his peers.



Types of Seizures

- Generalized, include absence seizures and tonic-clonic seizures, often known grand mal
- Partial, also known as focal seizures, involve only part of the brain

Seizures look different in each child.



During an absent seizure, a child may appear to be "zoned out."



https://sunshinebaby.tv/

In this video,
Raelynn has a
tonic-clonic
seizure.
Click the link to
see other
videos of
Raelynn's
seizures.

FIRST AID FOR TONIC CIONIC SEIZURES

Convulsive seizures where the body stiffens (tonic phase) followed by general muscle jerking (clonic phase)



1. DO time the seizure



2. DO remove any harmful objects



3. DO cushion the head



4. DO look for Epilepsy I.D.



5. DON'T put anything in the person's mouth



6. DON'T restrain the person or move unless in danger



7. DO turn the person on side (into recovery position) when seizure stops



8. DO stay with the person until the seizure ends and offer assistance



an ambulance

- If the seizure is longer than 5 minutes
- If one seizure follows another without stopping
- If you know it is the person's first seizure

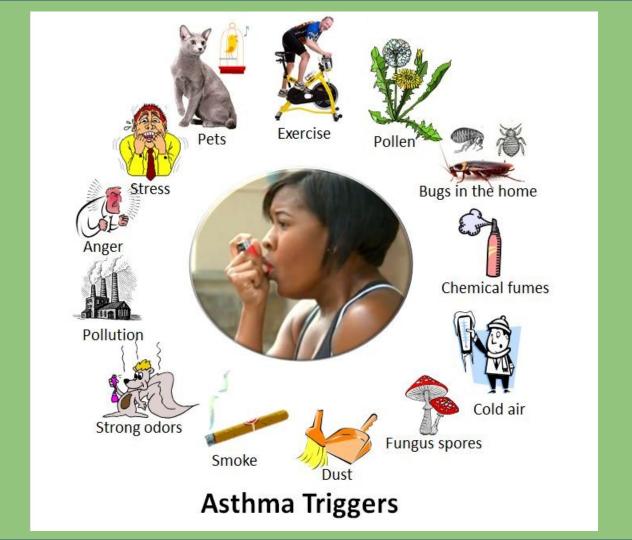
Complex **Partial Seizures** (Non-convulsive seizures with

- Stay with the person
- Guide away from any danger Speak gently and calmily to

Asthma



- Asthma is a common long-term lung disease in children. It's characterized by wheezing, breathlessness, chest tightness and coughing.
- Asthma is a chronic disease someone has all the time with periods of relief and other periods of exacerbation.
- These moments of exacerbation are called asthma attacks. During an asthma attack, air flow to your lungs is restricted by swelling which causes coughing, chest tightness, wheezing and trouble breathing.
- We don't know everything about asthma yet, but we know it has a genetic component and is triggered by environmental and occupational factors.





What Are Bloodborne Pathogens?

Bloodborne pathogens are tiny organisms living in blood and other body fluid that can cause disease in humans.

- Bloodborne Diseases
 - Hepatitis B
 - Hepatitis C
 - HIV

(Bloodborne Pathogens and Standard Precautions, 2020)

Bloodborne Precautions

Standard/Universal Precautions:

- Proper handwashing
- Gloves/PPE-use in all situations when may be in contact with blood/body fluids
- Proper disposal of sharps
- Annual training
- Encourage Hep. B vaccine How to safely remove gloves:

GLOVES REMOVAL VIDEO

If an exposure occurs:

- Follow organization's exposure policy
- Immediately wash/flush area with soap and water or just water if exposure to eyes
- Report immediately

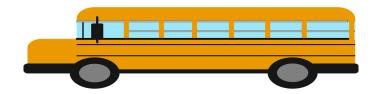
(Bloodborne Pathogens and Standard Precautions, 2020)

Precautions

- *<u>Always</u> wear PPE (gloves) when cleaning or disposing of blood borne pathogens. Blood borne pathogens can enter the body through any opening in the skin.
- *Always wear disposable gloves and treat all body spills with caution. All staff should have a pair of non-latex gloves available to them. Please see the school nurse if you are in need of some in your classroom.
- *Check the gloves for defects, tears, or rips, and do not reuse the gloves.
- *Wash hands with soap and water immediately after contact with body fluids even if you wear gloves.
- *Call the custodian in your school building to clean up any body fluid spill. The school district's approved disinfectant will be used for cleanup of the affected surface area.

Bloodborne Pathogen Protection for School Bus Drivers

- *Blood or any bodily fluids that are excreted from the body are capable of carrying a blood borne pathogen.
- *Blood, urine, or vomit are capable of carrying a blood borne pathogen.
- *School bus drivers must wear PPE when cleaning up or disposing of blood borne pathogens.
- * School bus drivers and teachers should be aware that the parents of a child who is a carrier of a blood borne pathogen do not have to reveal this information to the school district.



DIABETES

Is a chronic health condition in which the body cannot use glucose found in food for energy. There are two main types of diabetes.

Type 1: The pancreas does NOT produce insulin

Type 2: The pancreas does not produce ENOUGH insulin



DIABETES TYPE ONE

Type 1 is the most common type in children and teenagers.

Insulin is a hormone that helps blood sugar enter the cells for energy.

Without Insulin, blood glucose cannot get into the cells and builds up in the bloodstream resulting in **Hyperglycemia** (high blood glucose).

Symptoms of **hyperglycemia**: Extreme thirst, frequent urination, drowsiness, lethargy, dry hot skin, lack of appetite, fruity sweet breath, labored breathing, abdominal pain.

DIABETES TYPE ONE

Hypoglycemia (low blood sugar) can happen suddenly and is not always preventable.

May progress to unconsciousness, seizure, and convulsions.

Causes of hypoglycemia can be too much insulin, not enough food, extra physical activity, illness and certain medications.

Symptoms of **hypoglycemia:** Weak, hungry, shaky, pale, fatigue, anxious, dizzy, sweating, blurred vision, confusion

HYPOGLYCEMIA SYMPTOMS

HYPERGLYCEMIA SYMPTOMS





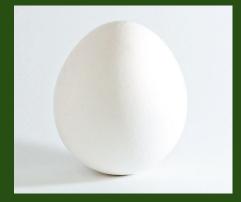
DIABETES TYPE ONE

Effective management in school includes:

- Unrestricted access to snacks and bathrooms
- Adequate time to eat
- Access to Diabetes equipment
- Treat blood sugars at any time
- Reach out to nurse with concerns



Life Threatening Allergies





An allergy occurs when the body has an immune response to a certain food or item. This causes a life threatening/severe immune response.



Types of Allergies:

- Peanuts

- Tree Nuts

- Milk

- Soy

- Shellfish

- Eggs

- Wheat

- Bees





Signs and Symptoms That can lead to Anaphylaxis



- Trouble Breathing/Shortness of Breath
- Tight Hoarse Throat
- Hives
- Pale sweaty skin
- Swollen Lips or Tongue
- Stomach discomfort, Vomiting or diarrhea
- Raking of Tongue
- Itchy nose or mouth
- Confusion/ altered mentation





Treatment:





Evaluate patient if symptoms are mild vs. severe

For **mild** symptoms:

- Monitor student closely
- Give antihistamine if ordered
- Call parents or guardian

For **Severe** symptoms:

- Give Epinephrine and note time when given
- Call **911** and parents
- Stay with student
- Keep student lying on side if vomiting

Epi-Pen Demonstration: HOW TO ADMINISTER EPIPEN

is a part of annual, mandatory trainings for the Dennis-Yarmouth Regional School District. Please <u>click here</u> to fill out a Google form as proof that you read and understand information provided in this training. Once submitted, the form will electronically go the DY Human Resources Office. We strongly recommend that you make a copy of the emailed receipt for your own records.

Thank you for reviewing this important information. This presentation

Please contact your school nurse or Kristin Dwyer, nurse leader, with your questions.

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