

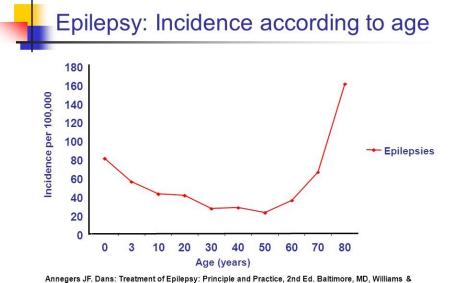
## Taking seizures into the summer

PEDIATRIC NEUROLOGY/ PEDIATRIC EPILEPSY PROGRAM
UNIVERSITY OF ROCHESTER MEDICAL CENTER
STRONG EPILEPSY CENTER



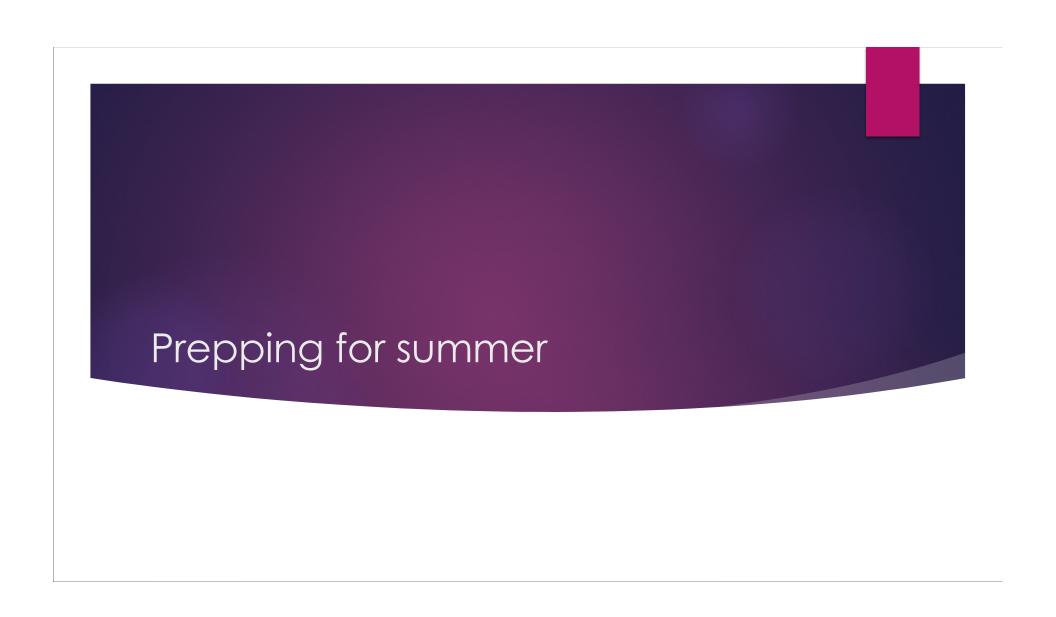
## Epilepsy is common, especially in kids

- ▶ 1 in 26 people will experience a diagnosis of epilepsy in their lifetime
- ▶ Epilepsy commonly starts in childhood



### Special considerations in summer

- Kids with DEE, and really epilepsy of all kinds, are at risk for dysautonomia (difficulty regulating temperature, heart rate, and blood pressure in different environmental settings)
  - ▶ This puts them at higher risk for overheating, getting too cold in pools or in the air conditioning, or having increased puffiness or secretions when over heated.
- Tips for keeping the right temperature
  - Modulate time in the sun (wear sunscreen when outside, use rash guards, consider covers on wheelchairs and strollers)
  - ▶ Watch for lethargy, increased seizures, skin color changes (getting pale or red) to trigger a body temp check
  - ▶ Consider cooling fans, spray bottles, cooling towels or cold vests to beat the heat
  - Watch for shivering/ skin color changes (getting pale or turning purple/blue) to get them out of pools/AC environments and warm them up
- In some states, there is additional supports for schools to be able to provide temperature regulation (air conditioners) for kids that need them-including air conditioned transport (bussing) if appropriate.
- Polarized sunglasses can help to reduce glare and photically-induced seizure in kids who are sensitive to bright or flashing lights
- Dehydration can also be a trigger for seizures so check with their team about how to add extra water to feeds, free water flushes, or meals to reduce dehydration risk!
- ▶ If these things are important for your child, make sure that their school/program team know about them and have a plan!



### What are people worried about?

- Seizures cause brain damage.
- Someone might die during a seizure.
- ▶ They might do something wrong that could harm a child or put teachers/schools at a liability.
- Seizures interfere with learning.
- Seizures disrupt the school day for the child and others around them.
- ▶ Aggressive/Irritable behavior might really be a seizure.

## What is the reality?

Most students with epilepsy can (and SHOULD) participate safely in all aspects of school, including school sports, gym, and other activities to the best of their abilities, with appropriate supervision and precautions.

## Combat fear with information and education by identifying needs and establishing a plan

- Students with epilepsy may:
  - need to go to the school nurse for medicines, or rest if they feel a seizure coming on or have experienced seizure activity during the school day
  - ▶ have side effects from medicine, causing them to be tired, moody, or less attentive
  - miss class time due to seizures, epilepsy work up, or doctor visits
  - have learning or behavior problems associated with their underlying diagnoses or medication side effects (or the psychosocial issues related to epilepsy)
  - need seating accommodations so teachers can watch for seizures
  - may benefit from having an aide with them in the classroom setting to help with seizure monitoring, safety and redirection
  - ▶ feel embarrassed about their condition and may benefit from psychosocial supports

https://kidshealth.org/en/parents/epilepsy-factsheet.html

### How do we meet these needs?

- ► Individualized Education plan
- ▶ 504 plan
- ▶ Seizure action plan

### What Can Parents Do?

- ▶ Talk with the school and share what happens when their child has a seizure.
- ▶ Work with your provider to make sure your student with epilepsy has a seizure action plan
- ▶ Make sure that the <u>seizure action plan</u> is part of their IEP or <u>504 education plan</u>.
- ▶ Ensure that people who work with the child regularly are familiar with the plan and are prepared to respond in the event of an emergency.
- Most seizures are not life-threatening. But if one lasts longer than 3-5 minutes or the child seems to have trouble breathing, or isn't recovering from a seizure, ensure that people know to call 911 right away.
- ▶ Kids and teens who have had a seizure may be tired, disoriented, confused, or even combative and agitated for minutes to hours. Make sure people know how to handle those experiences.
- Make safety plans for students to have recovery spaces, to go to the school nurse to lie down or go home for the day.
- ▶ Does the student require extra time to make up any missed class work or assignments?

### Seizure Action Plan

- What are the components?
  - ▶ Who is the kid and what are their needs/characteristics?
  - ▶ What do seizures look like?
  - Are there triggers to be aware of or to avoid?
  - ▶ What do they need to do to keep a kid safe during the seizures?
  - ▶ When do they need to use a rescue medication? (how much rescue medication, and what are the rules for when it can be used?)
  - ▶ When do they need to call EMS/ send a child to the hospital?
  - ▶ What are the safety precautions associated with a specific child's epilepsy?

## Creating a Seizure Action Plan

- ▶ You are not ALONE!
- ► Great resources: <a href="https://seizureactionplans.org/">https://seizureactionplans.org/</a>
  - ▶ The Seizure Action Plan Coalition
  - ▶ Seizure action plan awareness week is in February each year!



## Who is the kid and what are their needs/characteristics



Include alternative therapies and treatments as well.

#### 

# What do seizures look like? What triggers should they be aware of/avoid?

#### What to do in the event of a seizure emergency

#### Before a seizure emergency occurs:

Briefly write here what to do to possibly prevent a seizure emergency. Use if the person with seizures experiences triggers that, based on experience, often lead to emergencies (e.g. unusual seizure patterns, onset of menstruation, fever, missed medication, etc). When should a parent/caregiver be called if not at home? The doctor should agree with this plan. Try to keep the whole I-SAP to one page only so it can be used in an emergency. Just brief facts only. Delete this gray text of suggestions when finished.

y	FÖÜNDATION°	
	Not another moment lost to seizures	

#### **Seizure Action Plan**

**Effective Date** 

This student is being treated for a seizure disorder.	The information belo	ow should assist you if a seizure occurs during
school hours.		
Student's Name	Date of Birth	
Parent/Guardian	Phone	Cell
Other Emergency Contact	Phone	Cell
Treating Physician	Phone	
Treating Physician	FIIOITE	
Significant Medical History		

Seizure Information				
Seizure Type	Length	Frequency	Description	

Seizure triggers or warning signs:

Student's response after a seizure:

## What do they need to do to keep a kid safe during the seizures?

Seizure triggers or warning signs:

#### What to do in the event of a seizure emergency:

#### Before a seizure emergency occurs:

Briefly write here what to do to possibly prevent a seizure emergency. Use if the person with seizures experiences triggers that, based on experience, often lead to emergencies (e.g. unusual seizure patterns, onset of menstruation, fever, missed medication, etc). When should a parent/caregiver be called if not at home? The doctor should agree with this plan. Try to keep the whole I-SAP to one page only so it can be used in an emergency. Just brief facts only. Delete this gray text of suggestions when finished.

#### During a seizure emergency:

Briefly write here what to do if the seizures cluster or become convulsive or non-convulsive status epilepticus. The doctor should agree with this plan. When should rescue medications be given? Where are the rescue treatments? Knowing the prolonged seizures can cause brain damage, how soon should rescues be given? Who should give rescue meds (most rescue meds can be given by anyone who has read and understands the instructions)? Should the VNS magnet be used (if relevant)? What rescue medication(s) should be given (e.g. rectal, intranasal, etc.)? Can a second dose be given? If so, when and how? What if rescue meds fail?

Basic First Aid: Care &	Comfort	Basic Seizure First Aid	
Please describe basic first aid	Stay calm & track time     Keep child safe     Do not restrain     Do not put anything in mouth		
Does student need to leave the If YES, describe process for the If YES, described p	<ul> <li>Stay with child until fully conscious</li> <li>Record seizure in log</li> </ul>		
Emergency Response	For tonic-clonic seizure: Protect head Keep airway open/watch breathing		
		Turn child on side	
A "seizure emergency" for this student is defined as:	Seizure Emergency Protocol (Check all that apply and clarify below)	A seizure is generally considered an emergency when:	
	☐ Contact school nurse at	Convulsive (tonic-clonic) seizure lasts	
	☐ Call 911 for transport to	Ionger than 5 minutes     Student has repeated seizures without	
	☐ Notify parent or emergency contact	regaining consciousness	
	☐ Administer emergency medications as indicated below	Student is injured or has diabetes	
	☐ Notify doctor	Student has a first-time seizure	
	Other	<ul><li>Student has breathing difficulties</li><li>Student has a seizure in water</li></ul>	

Student's response after a seizure:

# When do they need to use a rescue medication/what dose/what rules? When do they need to call EMS?

#### After the seizure emergency has ended:

Briefly write here what to do after the emergency has ended. The doctor should agree with this plan. Was a rescue med given? If so, should heart rate and breathing be monitioned and for how long? How should the person with seizures be positioned? How long are they likely to need to recover? How do you comfort the person with seizures and bystanders?

#### When to call emergency services or go to the emergency department:

Briefly write here when to call an ambulance or go to the emergency room. Who will go in the ambulance with the person with seizures? Where is the Go Bag (a bag for trips to the hospital)?

Treatment Protocol During School Hours (include daily and emergency medications)					
Emerg. Med. ✓	Medication	Dosage & Time of Day Given	Common Side Effects & Special Instructions		
Does student have a Vagus Nerve Stimulator?					













## What are the safety precautions associated with a specific child's epilepsy?

Special Considerations and Precautions (regarding school activities, special	orts, trips, etc.)
Describe any special considerations or precautions:	
Physician Signature	Date
Parent/Guardian Signature	Date





## Seizure Action Plans should be living documents.

- SAPs should be updated pretty regularly. Consider asking about updates with changes in
  - Seizure type
  - ▶ Seizure frequency
  - Seizure duration
  - ▶ Seizure medication type or dose
  - ▶ Rules of when to administer medications or to call for help
- ▶ Some schools/programs may have specific forms.
- ▶ You may need setting specific seizure action plans.

## Can my kid with epilepsy...

- ► Go to school (ABSOLUTELY! The Americans with Disabilities Act and the IDEA education law specifically address that kids with seizures can go to school)
- ▶ Go on field trips (Yes! That's what the Seizure Action Plan is for!)
- ▶ Swim? (Yes! To the best of their ability and... with appropriate supervision)



THANK YOU!







