Edmonton Epilepsy

Association



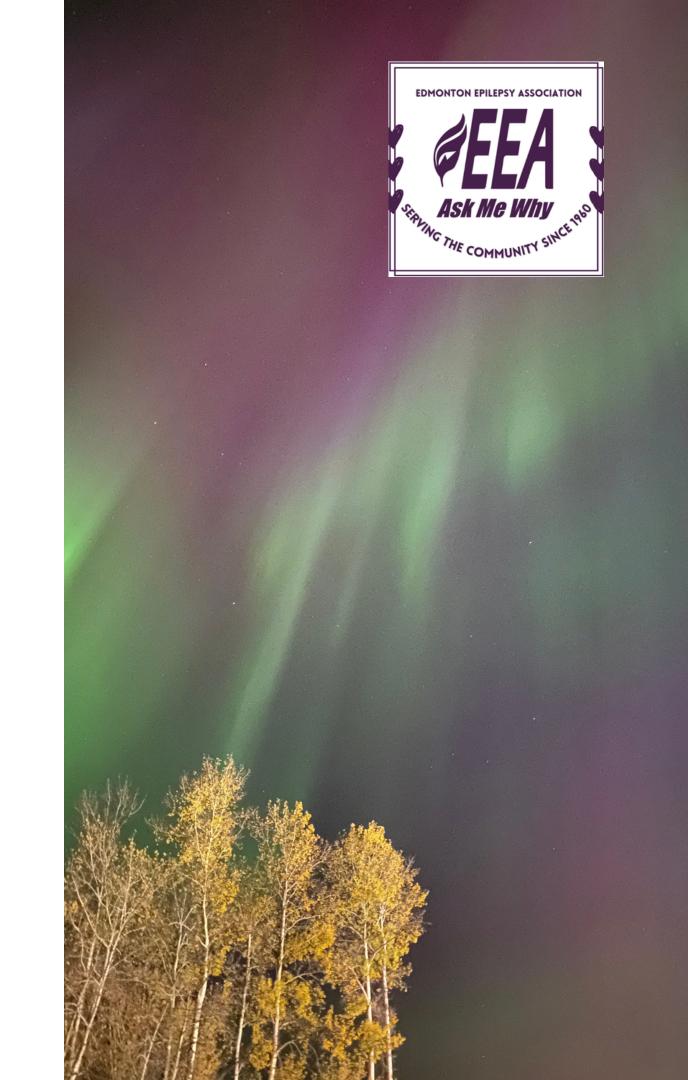
Neurodiversity In and Out of the Classroom: Understanding Epilepsy.

Presented by Valeria Palladino and Susan Wilkie

GETCA 02.27.25

Land Acknowledgement

We respectfully acknowledge that we live, work, and play on the Treaty 6 and Treaty 8 territories, home of the many First Nations, Métis, Cree and Dene people whose histories, languages, cultures and traditions continue to influence our communities. We express gratitude for the land we use and are committed to advancing reconciliation.





This session





description

The session will provide an overview on seizures and epilepsy and showcase a wide range of educational resources for all grades, when supporting students with epilepsy. A wide range of examples of teaching materials and ideas will be illustrated, and free resources provided to all who attend.



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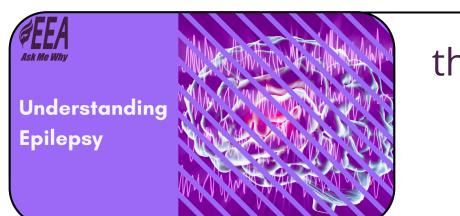
our goals

- Introduce epilepsy and the EEA
- **Share** personal stories
- **Build** foundational understanding of epilepsy and impact on students
- **List** resources
- **Encourage** questions



...back to our goals...





the basics



...back to our goals...





What are seizures?



...back to our goals...





What are seizures? What is epilepsy?



...back to our goals...





What are seizures?
What is epilepsy?
How many people are impacted?



...back to our goals...





What are seizures?
What is epilepsy?
How many people are impacted?
Triggers and facts on seizures



...back to our goals...





What are seizures?
What is epilepsy?
How many people are impacted?
Triggers and facts on seizures
Recognize seizure types



...back to our goals...





What are seizures?
What is epilepsy?
How many people are impacted?
Triggers and facts on seizures
Recognize seizure types
First aid and support







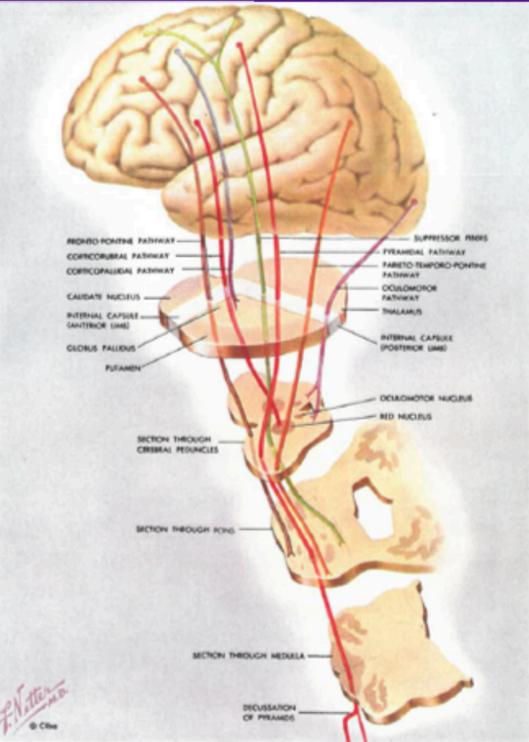




Understanding Epilepsy - What are seizures?

What are seizures?





BRAIN

- 1500 grams in weight
- 2% of body weight
- 20% use of oxygen
- 80% use of glucose
- made of nerve cells that communicate via electrical and chemical signals
- 86 billion neurons
- only organ in the body that deals with electrical signals





Understanding Epilepsy - What are seizures?



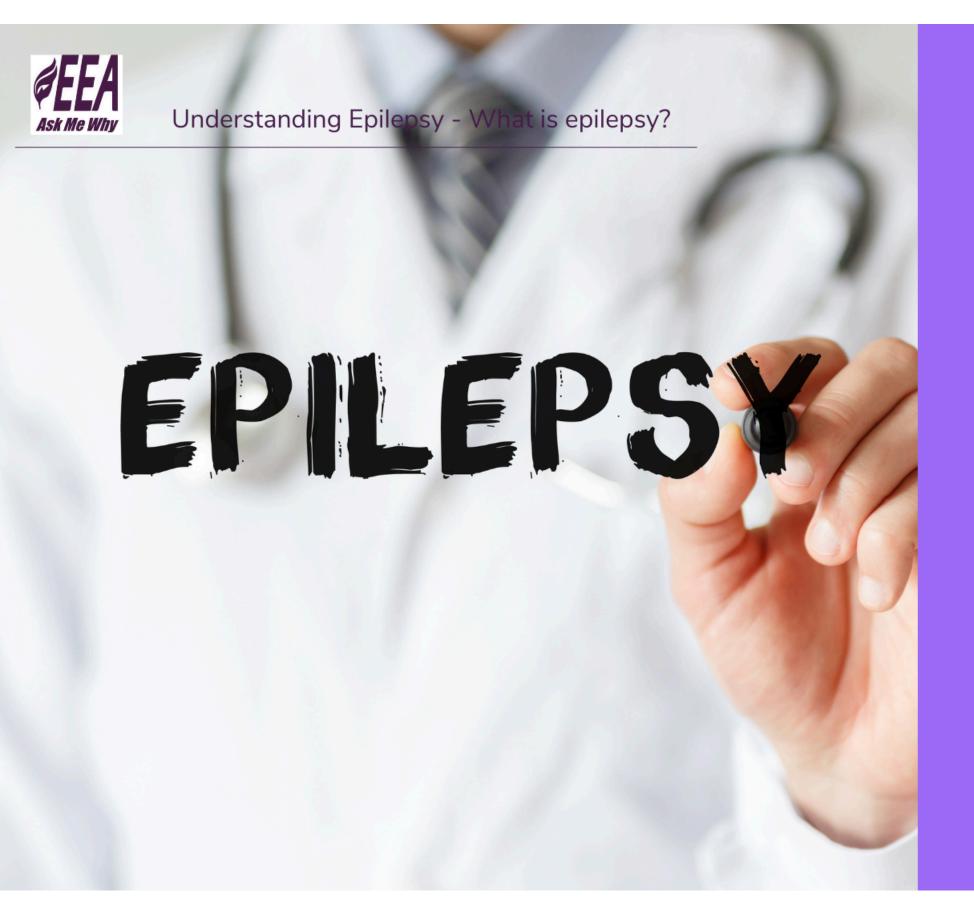
SEIZURES

- sudden, brief disturbance of electrical activity in the brain
- clinical manifestation of abnormal electrical discharges in the brain









What is epilepsy?

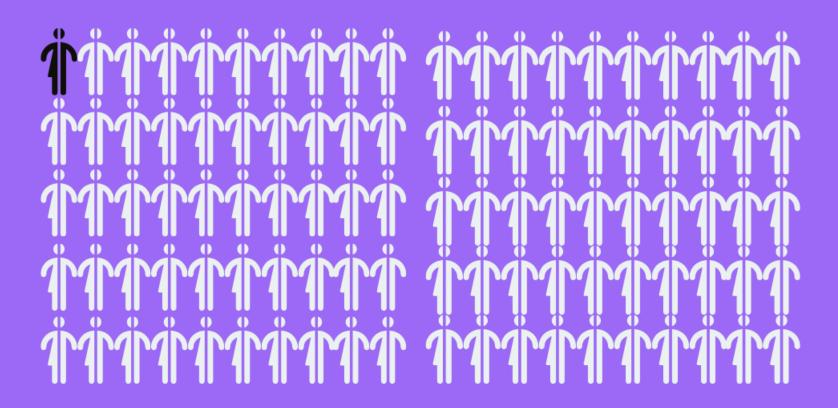
- seizure disorder
- at least two seizures for diagnosis
- non-provoked seizures
- condition of the brain in which individual has recurrent seizures







Understanding Epilepsy - Who is affected epilepsy?



Who is affected by epilepsy?

- one in every 100 Canadians
- approx. 40,000 people live with epilepsy in Alberta
- approx. 20,000 people in our service area (north of Red deer)
- onset occurs most often in early childhood or late in life







Understanding Epilepsy - Seizure triggers

Seizure triggers

- missed medication
- sleep deprivation
- stress
- missing meals
- illness or fever
- excessive alcohol consumption
- flickering lights
- medication
- street drugs
- hormonal changes



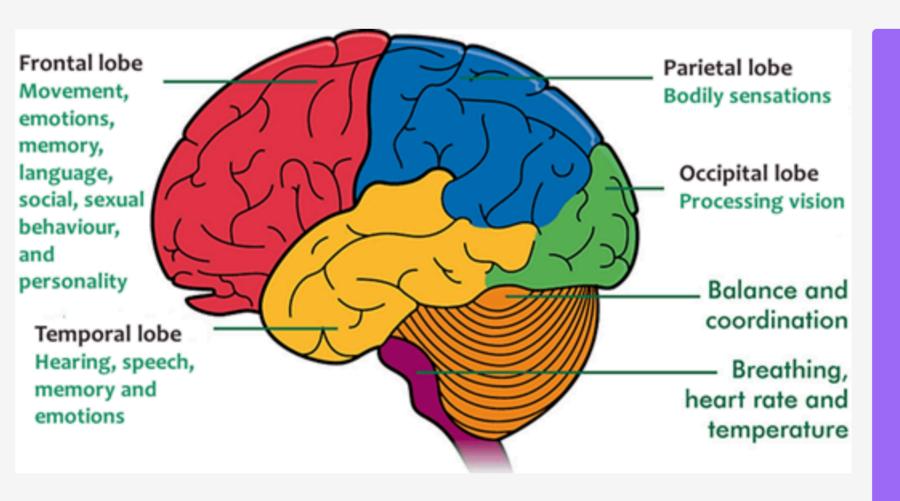






Understanding Epilepsy - Seizure Facts

Seizure facts



 the form the seizure takes depends on where in the brain the seizure occurs

Photo courtesy of Epilepsy Waikato Charitable Trust

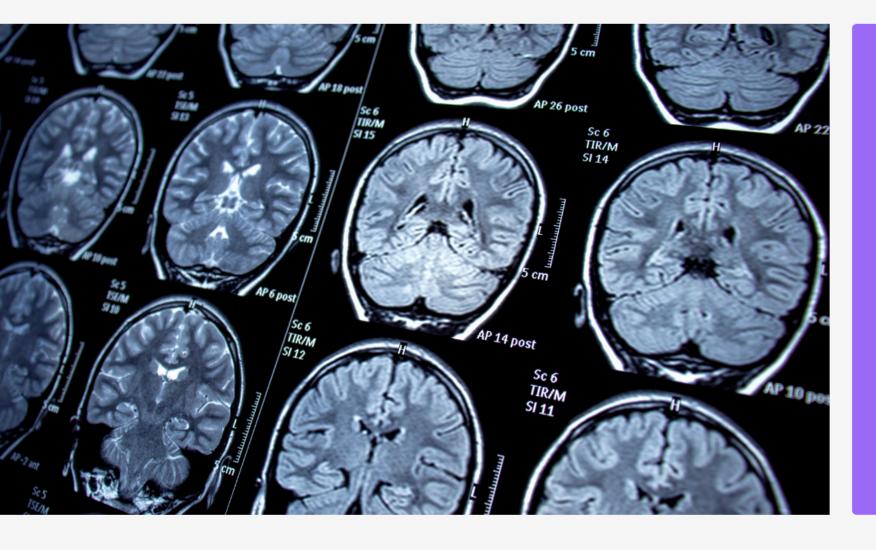






Understanding Epilepsy - Seizure Facts

Seizure facts



- the length, intensity or frequency of the seizure can change as a person ages
- generally, seizures are painless and will end naturally

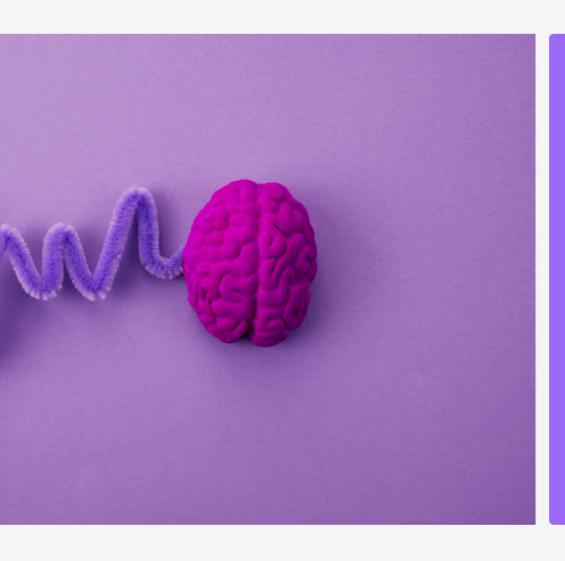






Understanding Epilepsy - Seizure Types

Types of seizures



- three main types of epilepsies
 - primary generalized
 - o focal
 - o combined generalized and focal

Epileptic Disord, Vol. 20. No. 2, April 2018

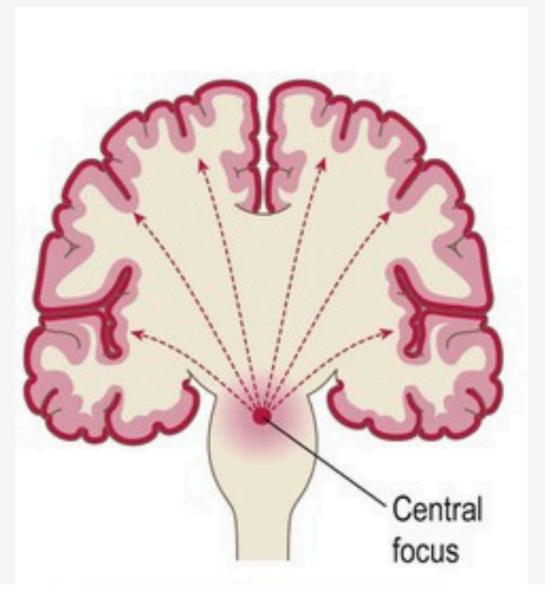






Understanding Epilepsy - Types

Generalized seizures



- widespread seizures on both sides of the brain
- petit mal (absence seizures)
- grand mal (tonic clonic)
- idiopathic (underlining genetic reason)

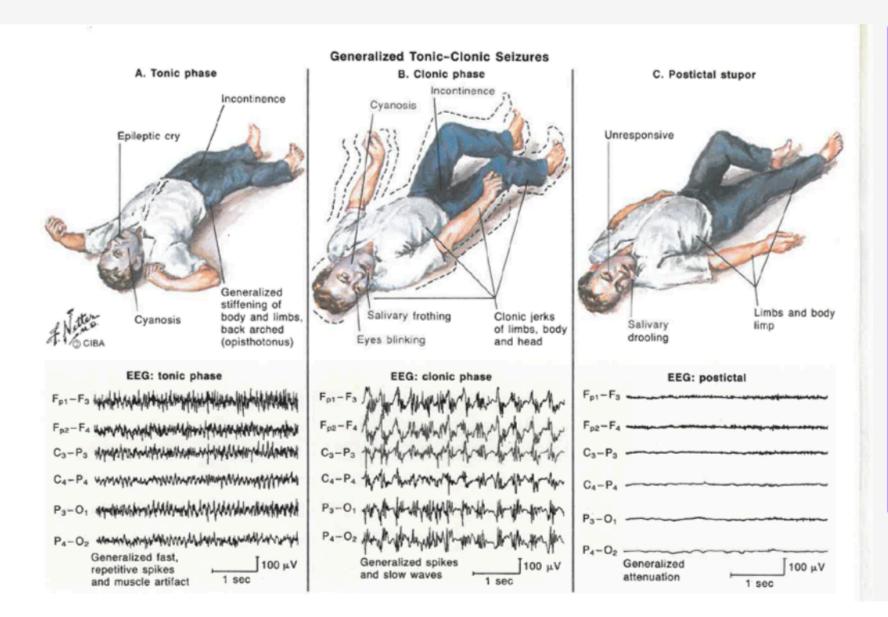






Understanding Epilepsy - Types

Generalized seizures



 generalized tonicclonic (also known as grand mal)

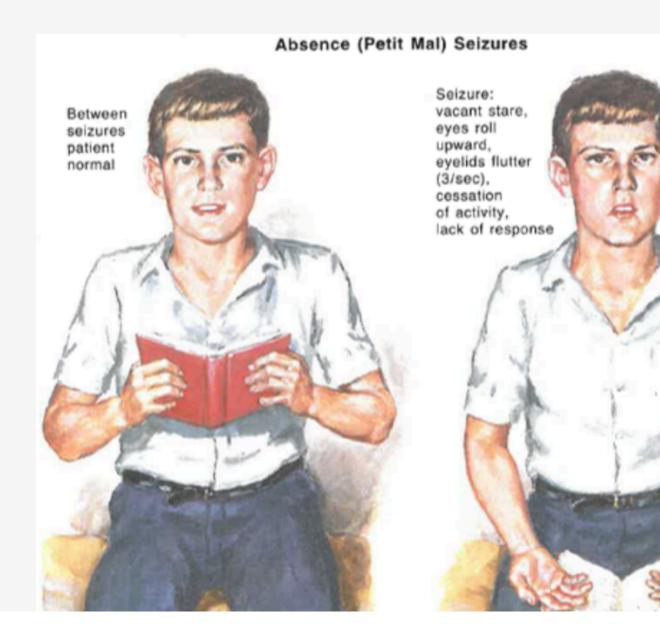






Understanding Epilepsy - Types

Generalized seizures



absence seizures (also known as petit mal)

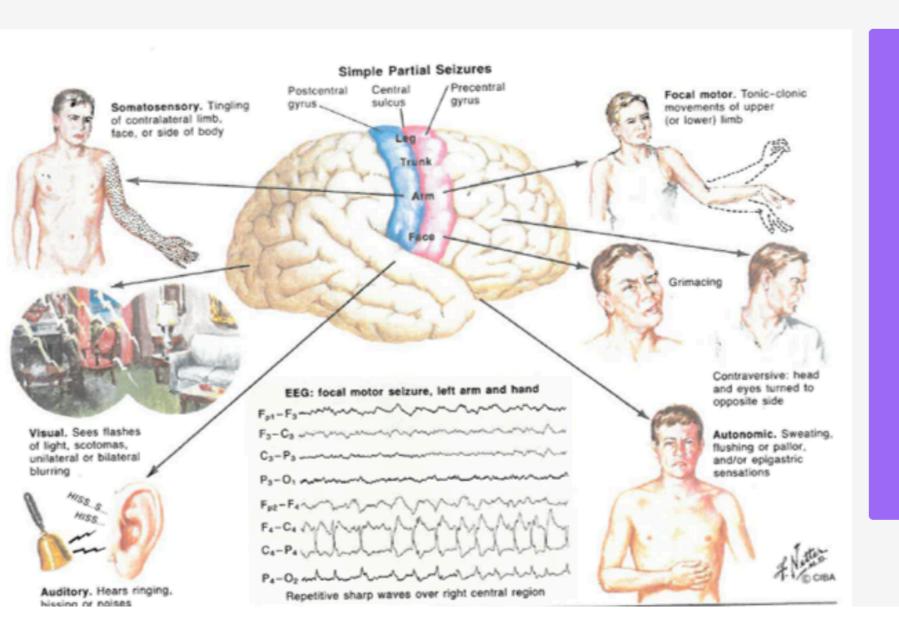






Understanding Epilepsy - Types

Focal seizures



focal aware (simple partial)





The two most common kinds of focal seizures are focal aware and focal impaired awareness seizure.















Understanding Epilepsy - Treatement

Treatment

SEIZURE MEDICATION (AED)

- primary treatment for epilepsy
- drugs do not cure epilepsy but reduce or stop seizures
- 70% of epilepsy patients manage their seizures through drugs







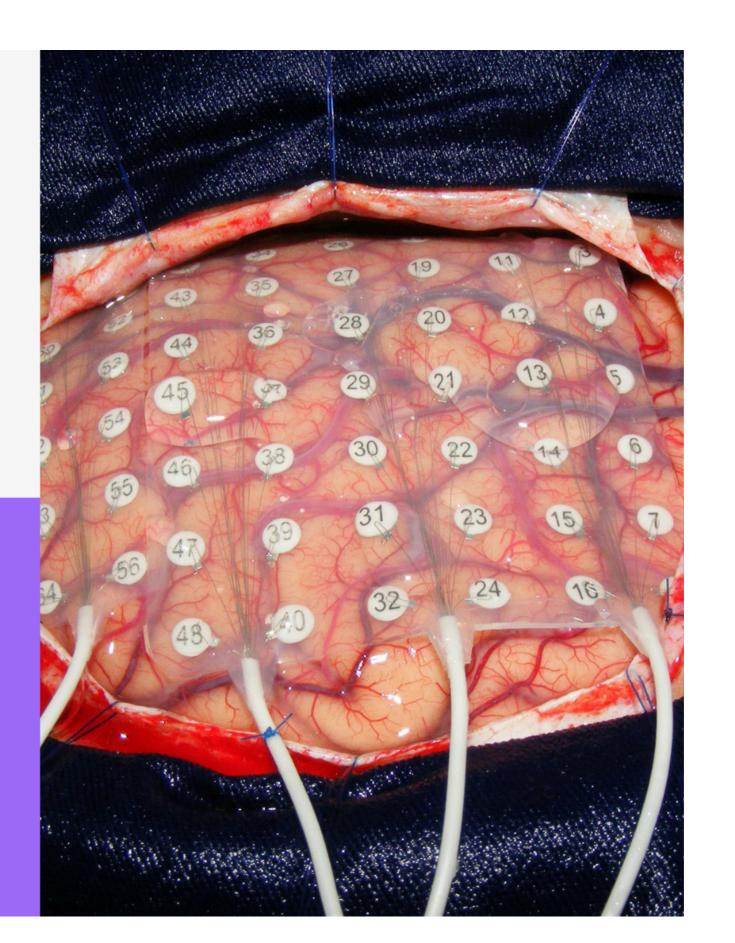


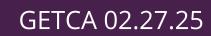
Understanding Epilepsy - Treatement

Treatment

SURGERY

- 2% of people with epilepsy undergo surgery to control their seizures
- open brain surgery
- stereotactic surgery with laser wire (LITT)









Understanding Epilepsy - Treatement

Treatment

ADDITIONAL TREATMENT OPTIONS

- ketogenic diet
- implants
- CBD









Understanding Epilepsy - First Aid

Seizure First Aid

stay calm

loosen anything tight around the neck

keep the person safe

check for medical ID

protect the person from injury

do not restrain the person









Understanding Epilepsy - First Aid

Seizure First Aid

remove any hard or dangerous items

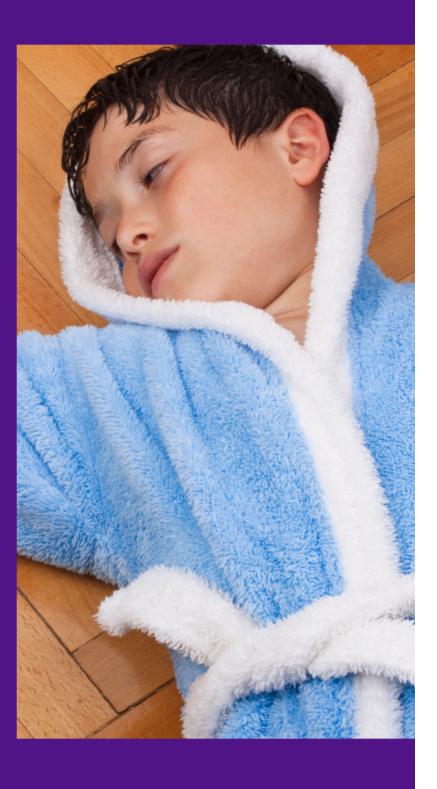
alert bystanders

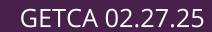
do not put anything in the person's mouth

gently roll the person onto their side

offer comfort and reasurance

stay with the person









Understanding Epilepsy - First Aid

Seizure First Aid

stay calm

loosen anything tight around the neck

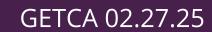
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Understanding Epilepsy - First Aid

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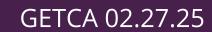
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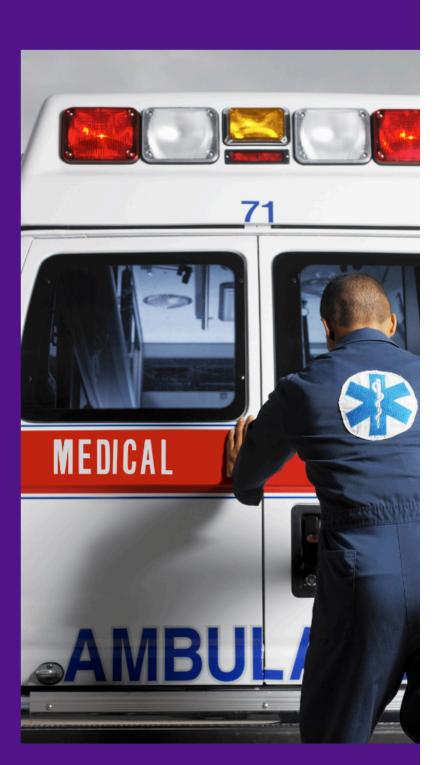


Understanding Epilepsy - First Aid

When to call an ambulance

if there is no known history of seizures









Epilepsy



A guide for teachers

www.edmontonepilepsy.org



Epilepsy

what people see seizures

what people don't see

bladder issues
confusion
depression
dizziness
double vision
loss of awareness
loss of consciousness

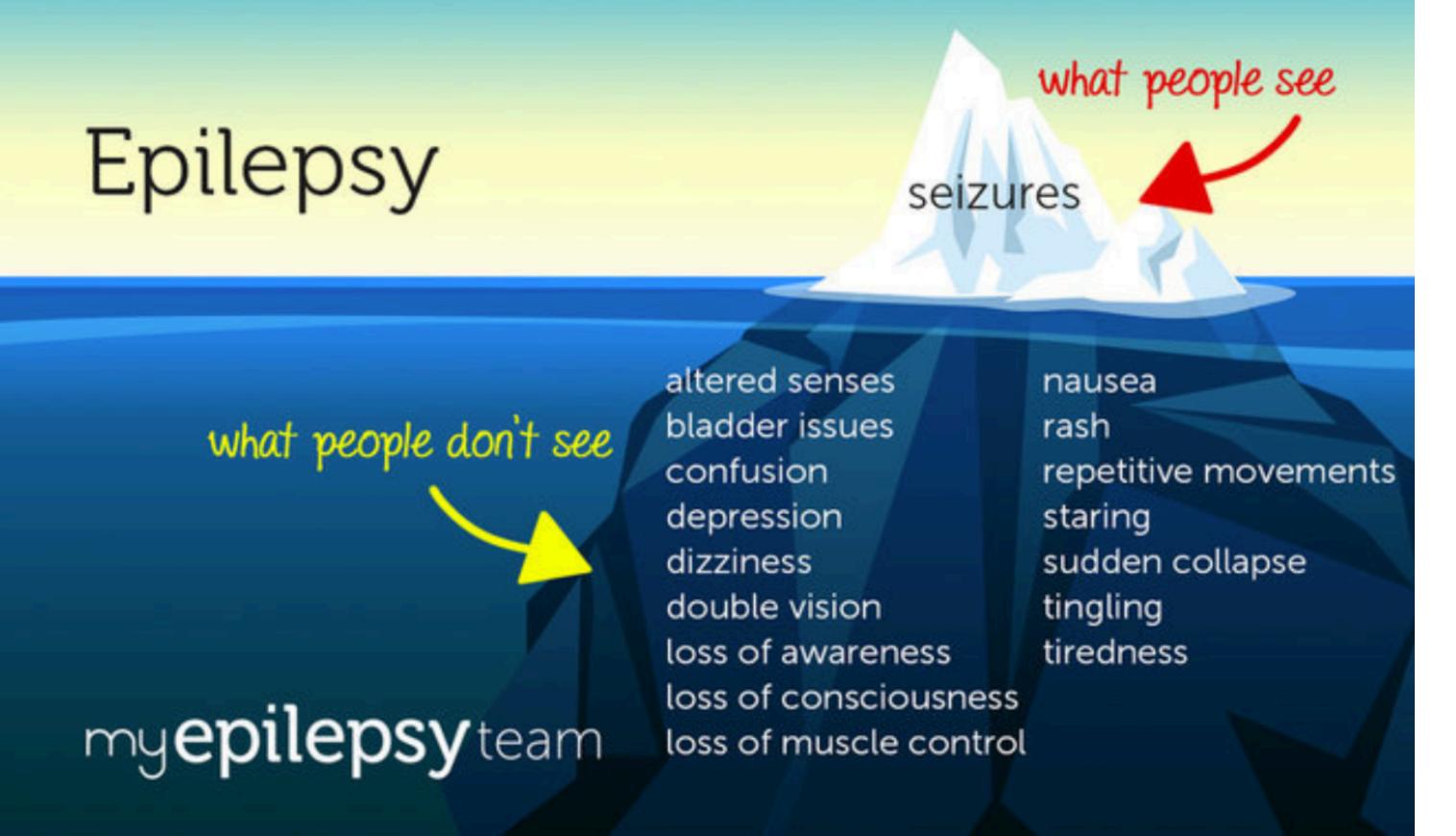
altered senses

loss of muscle control

rash
repetitive movements
staring
sudden collapse
tingling
tiredness

my**epilepsy**team



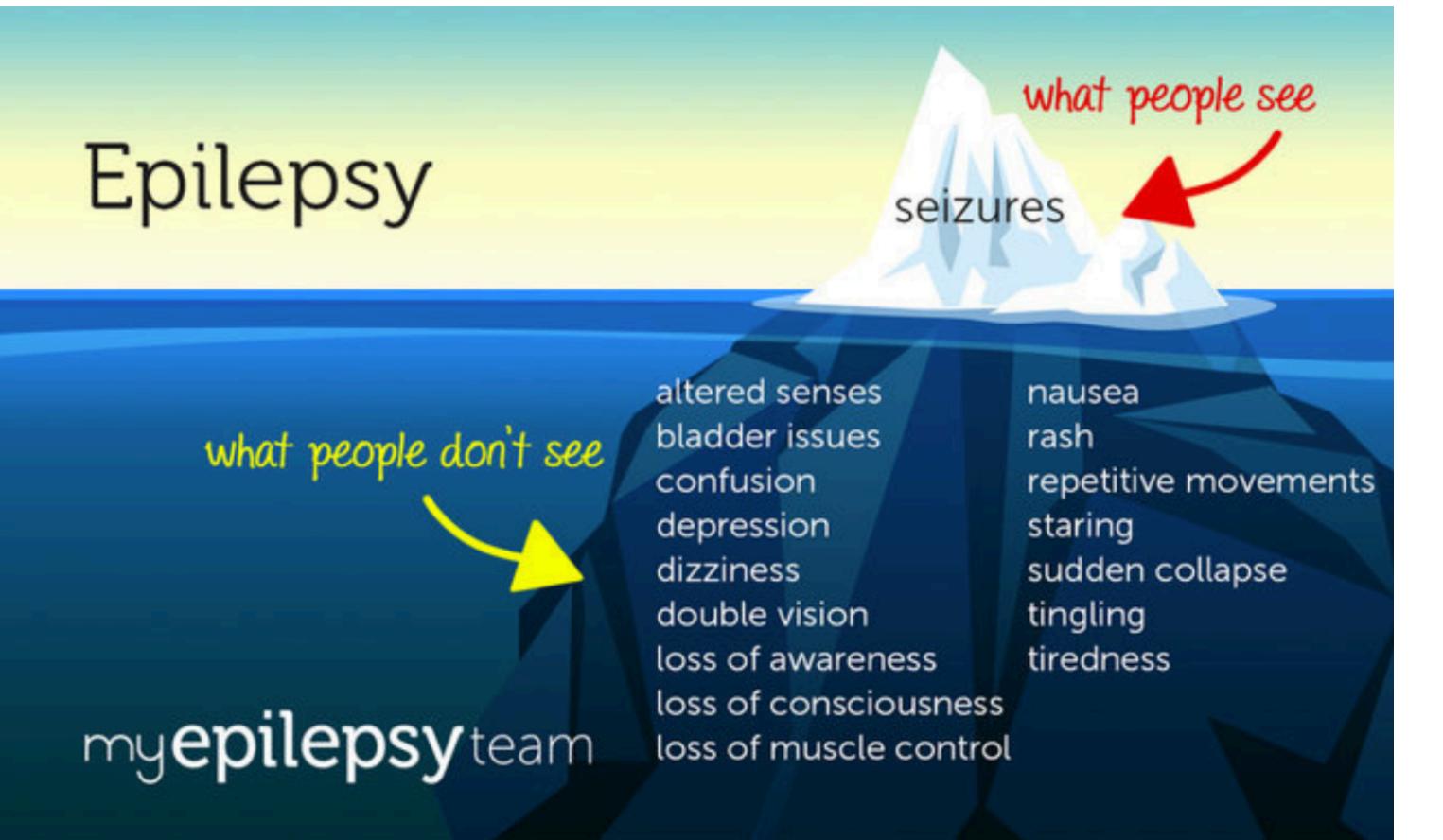


Seizure free



No support required





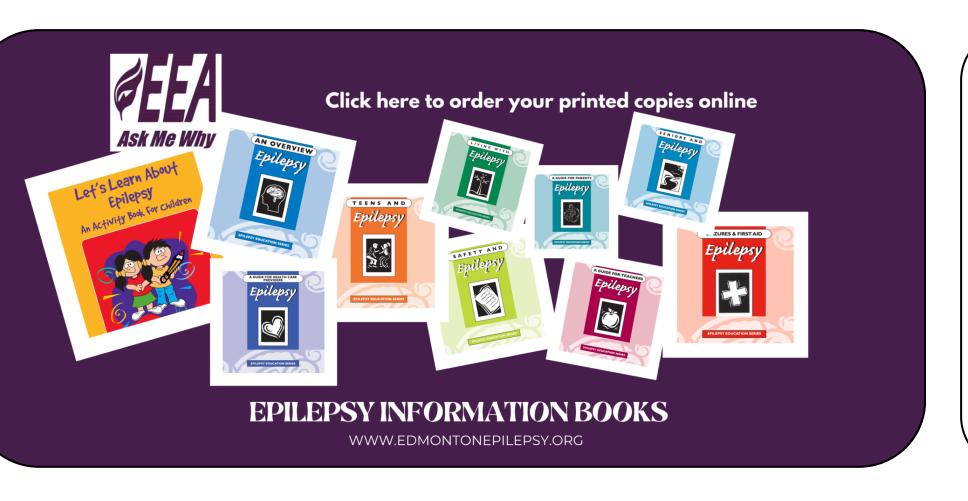
The need to advocate for support in school is exhausting for students and families







Access resources for epilepsy



EPILEPSY BOOKS

- 11 original titles free to order online at our page
- 10 English titles also in audiobooks
- Titles have short video clips for educational purposes
- We have a colouring book for younger kids



Access resources for epilepsy

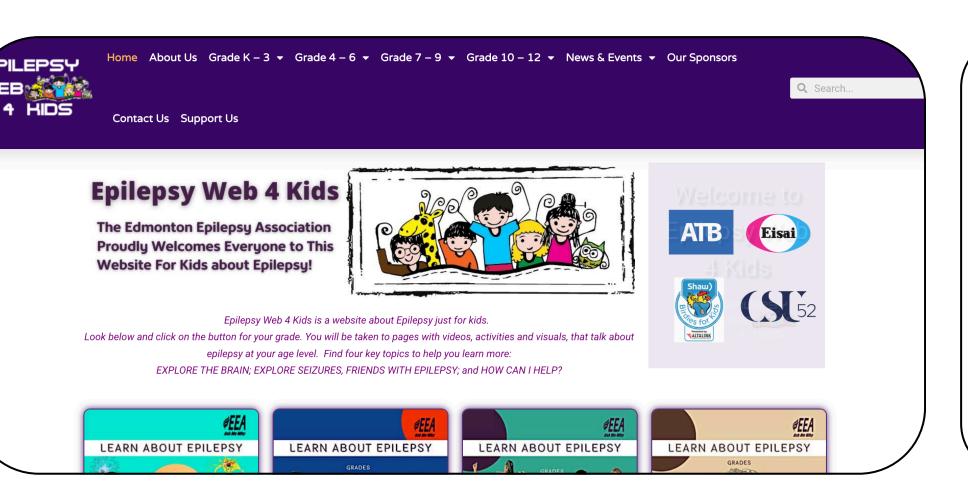


KIDS ON THE BLOCK PUPPET SHOW

- Free live performance for elementary grades (grade 4-5 and younger)
- Book show online we come for 20 kids and 400 kids
- Build inclusive environment learn seizure first aid and how to be a good friend



Access resources for epilepsy



WWW.EPILEPSYWEB4KIDS.CA

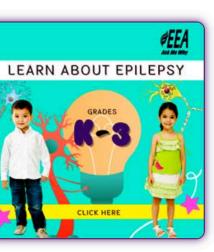
 Website dedicated to talking about epilepsy with kids language and K-12 learning goals in mind



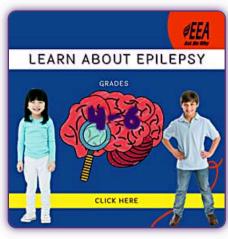
Access resources for epilepsy

ok below and click on the button for your grade. You will be taken to pages with videos, activities and visuals, that talk about epilepsy at your age level. Find four key topics to help you learn more:

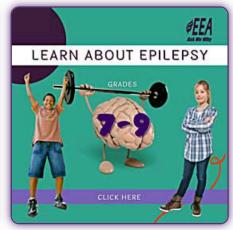
EXPLORE THE BRAIN; EXPLORE SEIZURES, FRIENDS WITH EPILEPSY; and HOW CAN I HELP?



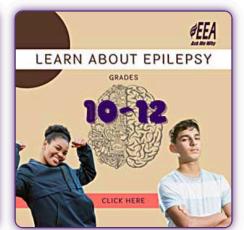
olore resources and engage with ivities to better understand epilepsy e, if you attend Kindergarten to de 3. Ask an adult to help you and



Explore resources and engage with activities to better understand epilepsy here, if you attend Grade 4 to 6. Ask an adult to help you and learn together



Explore resources and engage with activities to better understand epilepsy here, if you attend Grade 7-9.



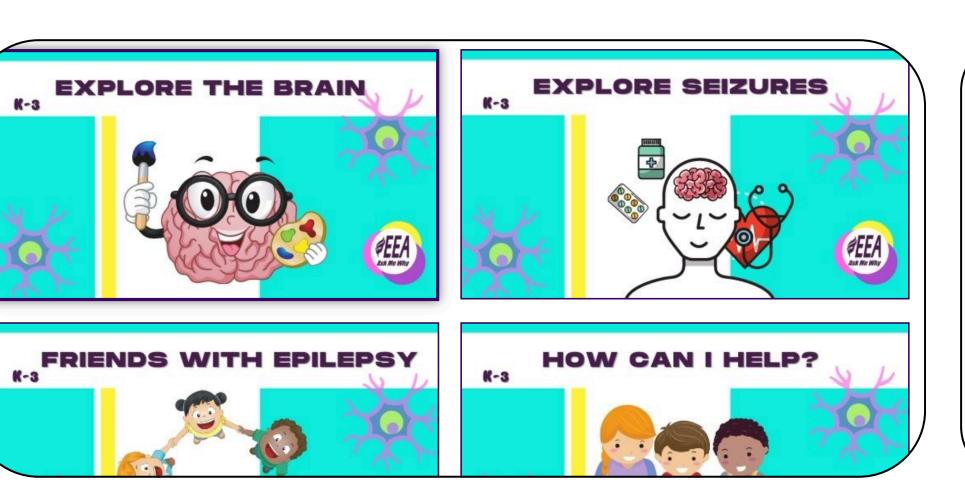
Explore resources and engage with activities to better understand epilepsy here, if you attend Grade 10-12.

WWW.EPILEPSYWEB4KIDS.CA

• Four main sections by division



Access resources for epilepsy



WWW.EPILEPSYWEB4KIDS.CA

- Four key conversations
 - Explore the brain
 - Explore seizures
 - Friends with epilepsy
 - How can I help?



Access resources for epilepsy



ENGAGE WITH EDMONTON EPILEPSY ASSOCIATION

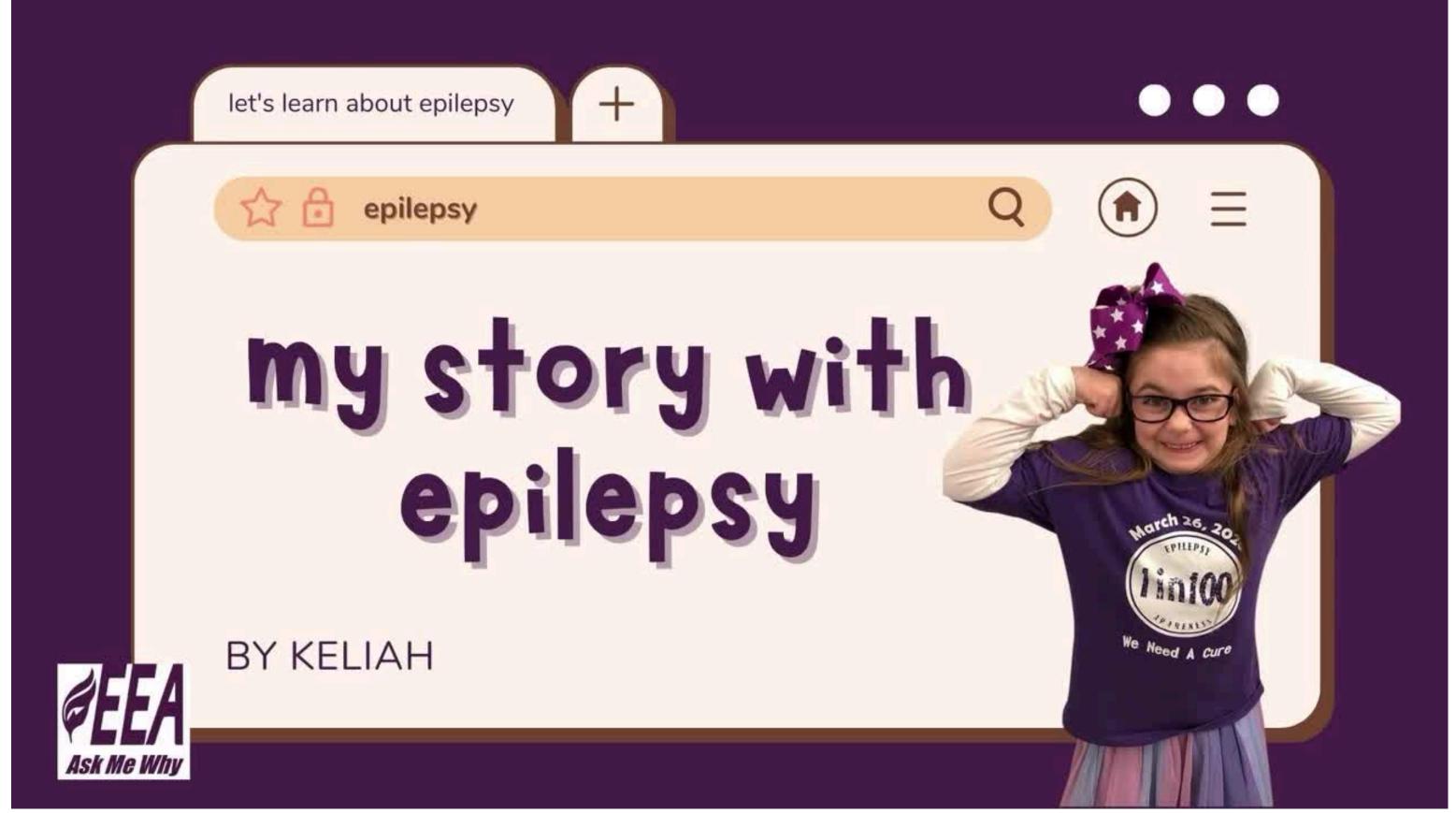
- March Epilepsy Awareness Month Activities
- Scholarships
- Projects with schools



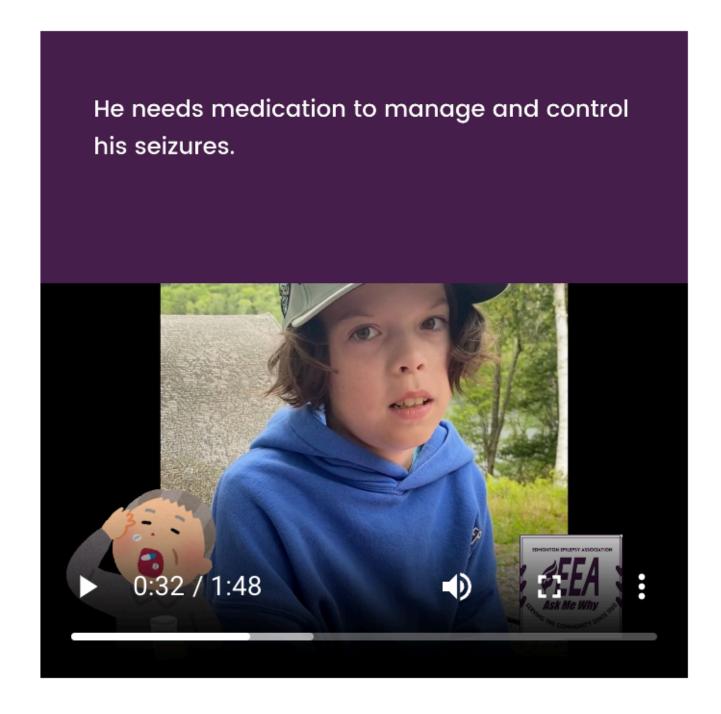
Students who have epilepsy may be











OWEN SHARES WHAT HE KNOWS ABOUT HIS EPILEPSY

In this video, our young friend Owen shares a few facts about his life with seizures. He talks about what he does each day, to manage the seizures, and how they still impact his school life. He also invites viewers to donate to the Edmonton Epilepsy Association, EEA, as they can help other kids like him live better lives with epilepsy. What the short video and then access the practice activities below as you learn a bit about epilepsy.

DOWNLOAD THE QUESTION SHEET, ANSWER THE QUESTIONS AND SHARE
YOUR ANSWERS WITH A FRIEND.





ENGAGE...AND THANK YOU!

Thank You

