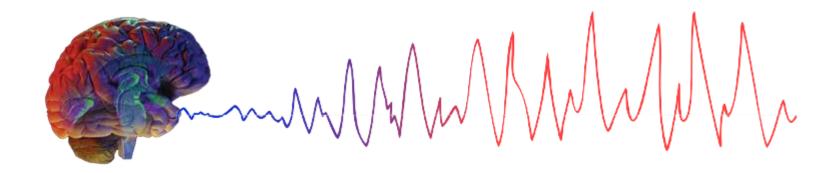


Epilepsy Care in the School Setting

Children's Epilepsy Educational Video Series







Epilepsy Care in the School Setting

Children's Epilepsy Educational Video Series

Presented by Susan McCallum, MSN, RN Children's Comprehensive Epilepsy Center 404-785-3720 www.choa.org





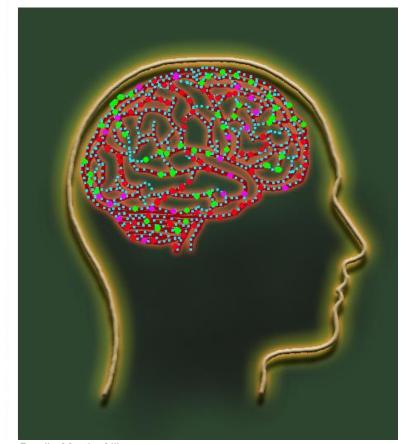
Course Disclaimer

This is general information and not specific medical advice for you, your child, or loved one. Always consult your doctor or other healthcare provider if you have any questions or concerns. Call 911 or go to the nearest emergency department in case of an urgent concern or emergency.

Educational Activity Disclosure

Epilepsy Seizure Diagnostics and Treatments - Part 3 of 4

Disclosures	Action
Criteria for Successful Completion	View entire recording
	Completion of evaluation
Conflicts of Interest Statements for Planning	The planning committee members have no relevant financial relationship to declare.
Committee	
Conflicts of Interest Statements for	The content experts/faculty/presenters/authors have no relevant financial relationship to declare.
Faculty/Presenters/ Authors	
Commercial Support	No commercial support is being received for this event.
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Non-endorsement of Products	No products are being displayed at this event
Continuing Education	This continuing nursing education activity was provided by Children's Healthcare of Atlanta. Children's Healthcare of Atlanta is an approved provider of continuing nursing education by the Alabama State Nurses Association, an accredited approver by the American Nurses Credentialing Center's Commission on Accreditation.
	Contact hours: 0.5
	Activity ID: 2017-0508-01
	Expiration Date: 05/08/2019



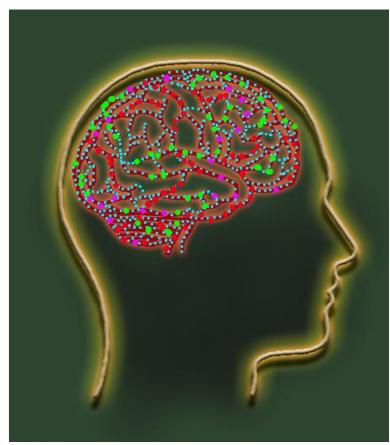
Credit: Martin Allison

Epilepsy Seizure Diagnostics& Treatments

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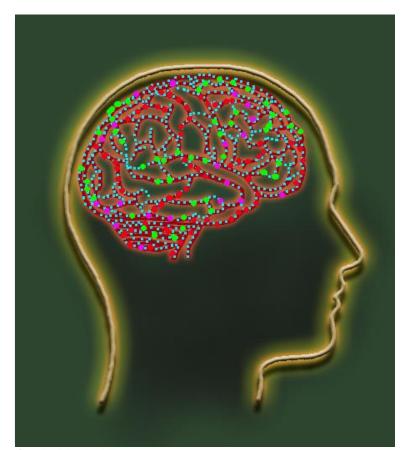




Credit: Martin Allison

This education video is intended for school nurses who:





Credit: Martin Allison

This education video is intended for school nurses who:

Care directly for students with epilepsy

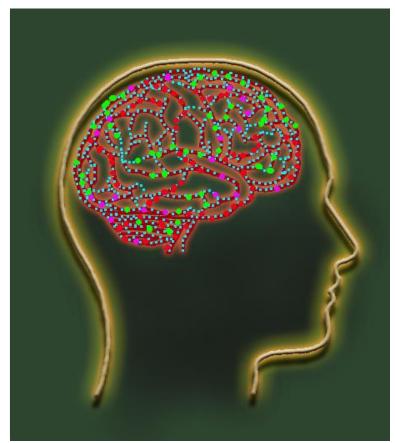


Credit: Martin Allison

This education video is intended for school nurses who:

- Care directly for students with epilepsy
- Provide first aid for seizures, including seizure medication





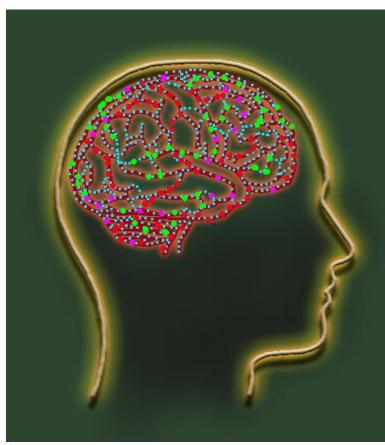
Credit: Martin Allison

This education video is intended for school nurses who:

- Care directly for students with epilepsy
- Provide first aid for seizures, including seizure medication
- May teach non-licensed school personnel such as teachers, coaches, or after school staff how to respond to students experiencing a seizure

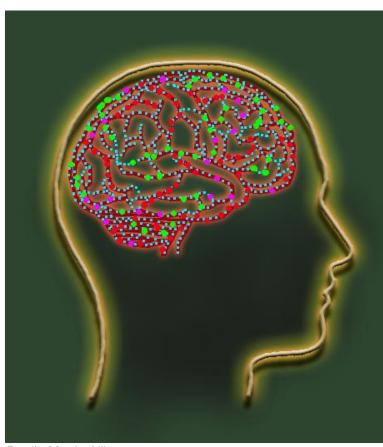


Learning Objectives



Credit: Martin Allison

Learning Objectives



Credit: Martin Allison

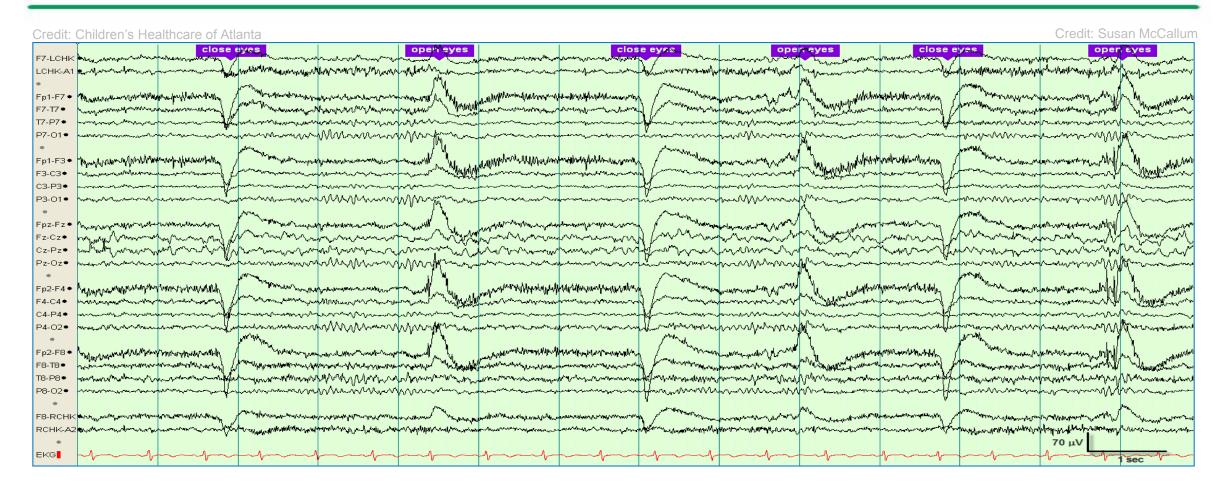
 Describe common diagnostic testing for individuals experiencing seizures

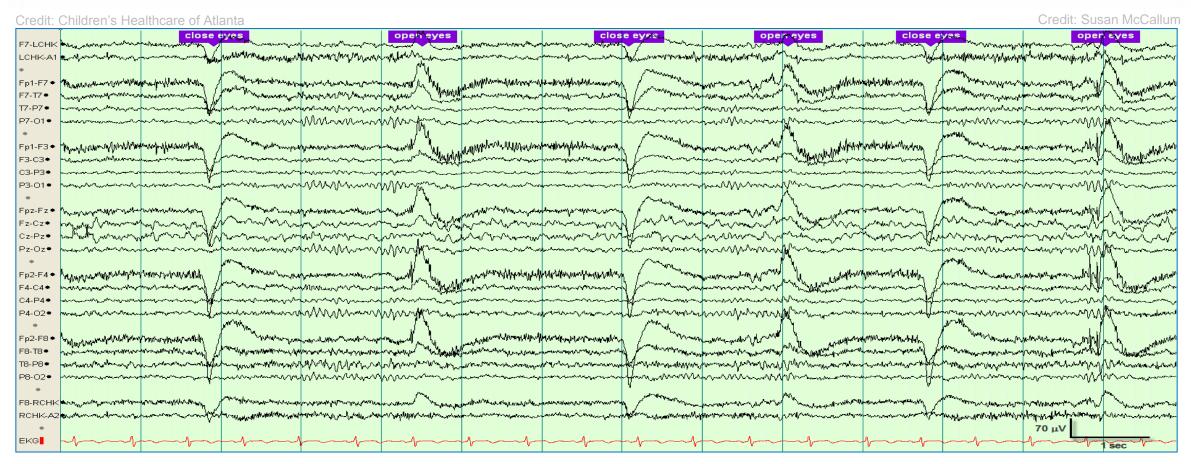
Learning Objectives

- Credit: Martin Allison

- Describe common diagnostic testing for individuals experiencing seizures
- Discuss treatment options for individuals experiencing seizures

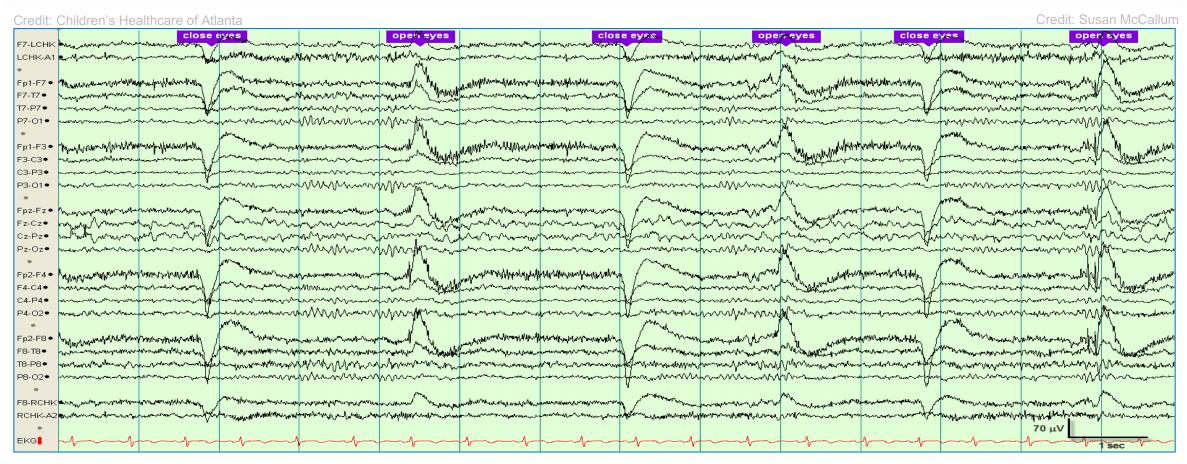
Diagnostics





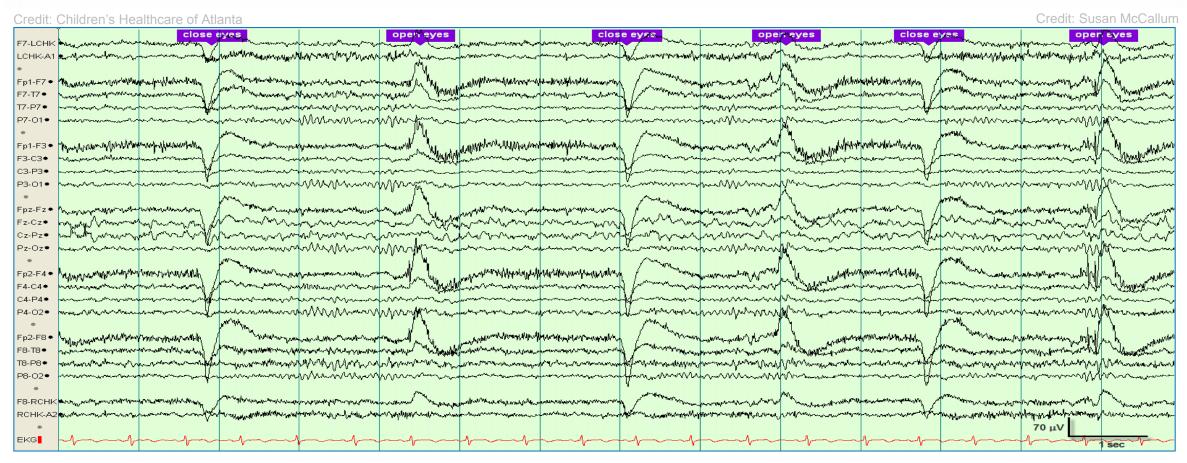
Recorded brain activities displayed as waves





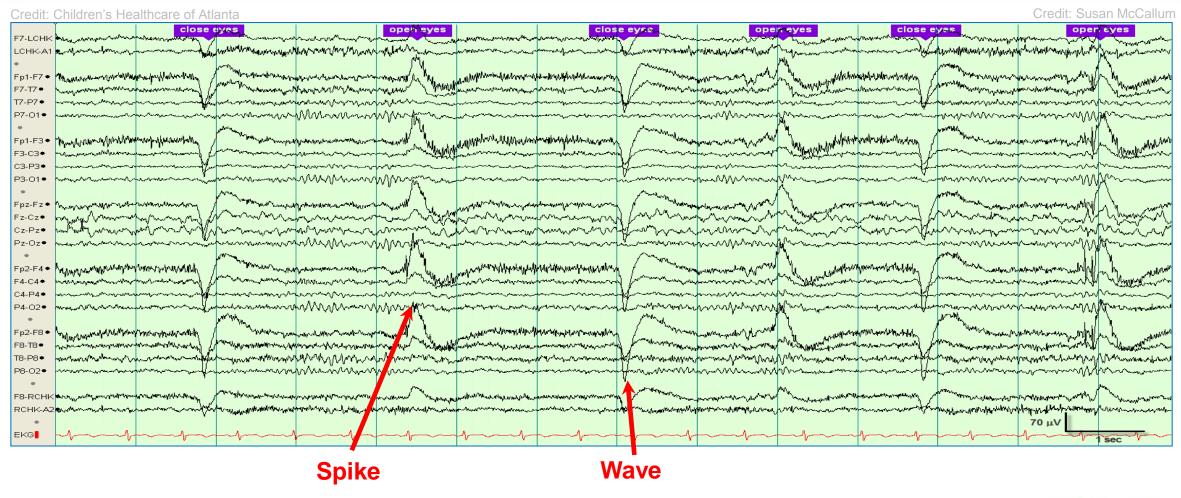
Machine utilizes electrodes that are attached to scalp

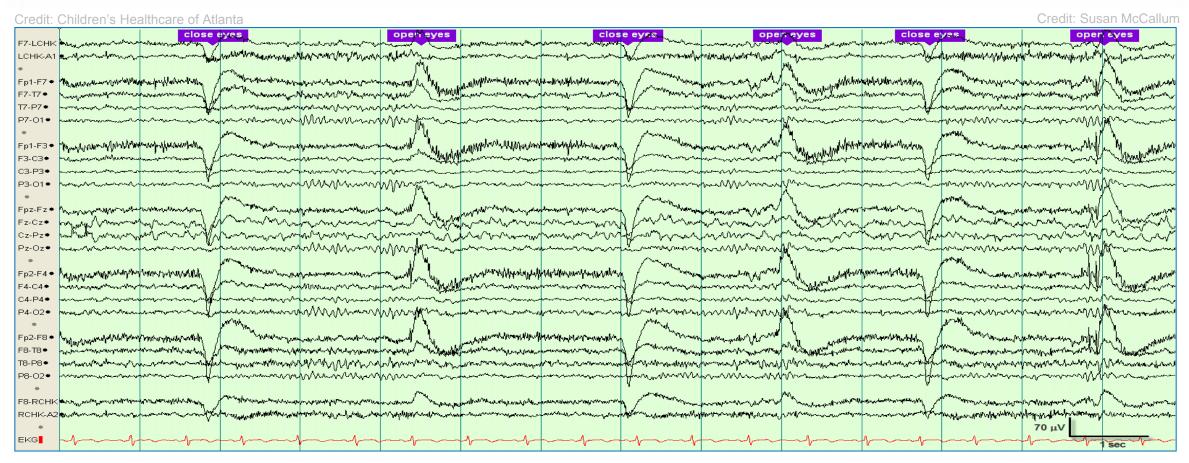




Recordings written on paper or digitized on a computer monitor

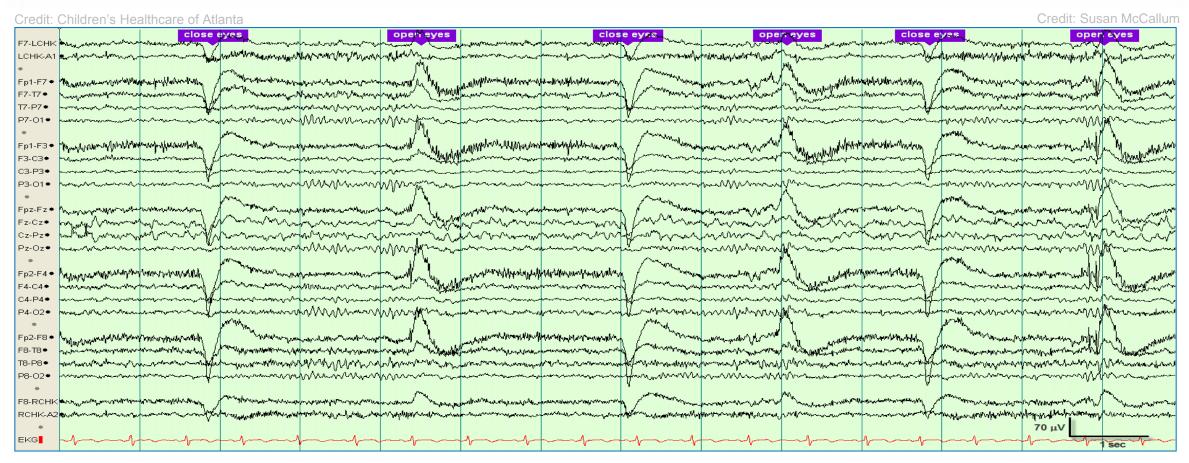






Confirm the epilepsy diagnosis





Classify the type of epilepsy syndrome



Magnetic resonance imaging (MRI)



Credit: Children's Healthcare of Atlanta



- Magnetic resonance imaging (MRI)
 - Identify structural abnormalities



Credit: Children's Healthcare of Atlanta



- Magnetic resonance imaging (MRI)
 - Identify structural abnormalities
- The use of MRI is particularly important for children:



Credit: Children's Healthcare of Atlanta



- Magnetic resonance imaging (MRI)
 - Identify structural abnormalities
- The use of MRI is particularly important for children:
 - who have developed epilepsy before the age of 2 years



Credit: Children's Healthcare of Atlanta



- Magnetic resonance imaging (MRI)
 - Identify structural abnormalities
- The use of MRI is particularly important for children:
 - who have developed epilepsy before the age of 2 years
 - who have any suggestion of a focal onset from history, examination, or EEG (unless there is clear evidence of benign focal epilepsy)



Credit: Children's Healthcare of Atlanta



- Magnetic resonance imaging (MRI)
 - Identify structural abnormalities
- The use of MRI is particularly important for children:
 - who have developed epilepsy before the age of 2 years
 - who have any suggestion of a focal onset from history, examination, or EEG (unless there is clear evidence of benign focal epilepsy)
 - in whom seizures continue in spite of firstline medication



Credit: Children's Healthcare of Atlanta



How Can I Use This Information?

Pause and think about how you can use the information discussed in this section in your daily practice.



Credit: Deposit Photos

 Medicine is the primary way in which seizures are controlled



- Medicine is the primary way in which seizures are controlled
- Different medicines help with different kinds of epilepsy and seizures

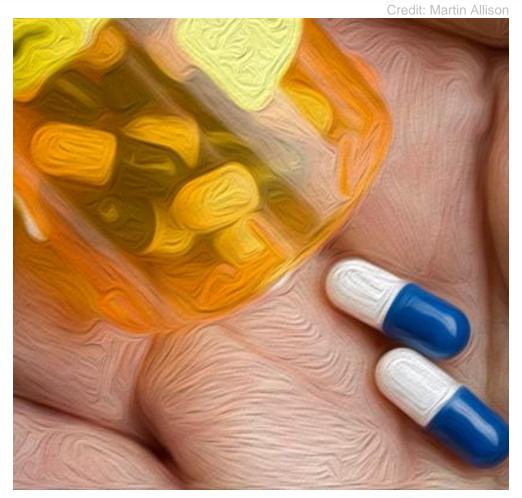


- Medicine is the primary way in which seizures are controlled
- Different medicines help with different kinds of epilepsy and seizures
- Medications control seizures for about 6 out of 10 people living with epilepsy

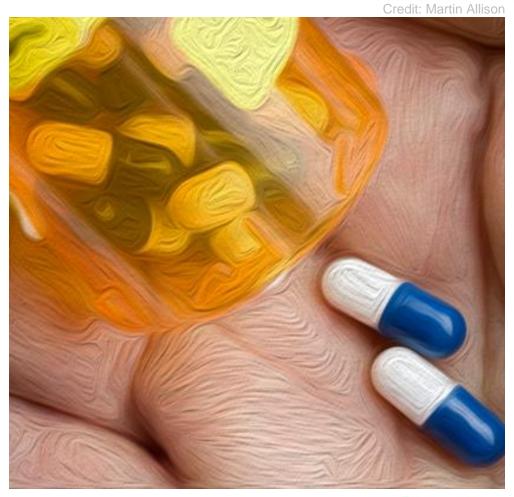




 Decrease frequency and/or severity of seizures in people with epilepsy



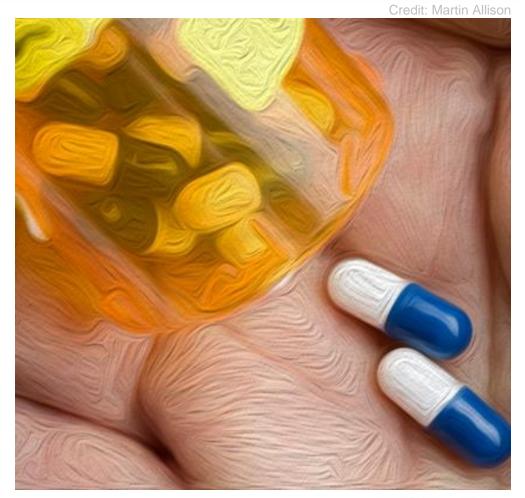
- Decrease frequency and/or severity of seizures in people with epilepsy
- Improve quality of life by:



- Decrease frequency and/or severity of seizures in people with epilepsy
- Improve quality of life by:
 - Maximizing seizure control

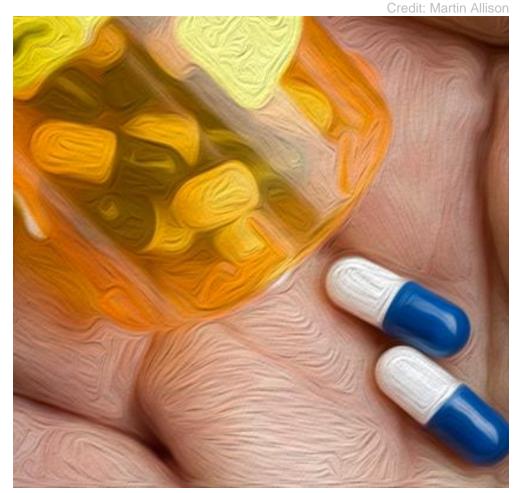


- Decrease frequency and/or severity of seizures in people with epilepsy
- Improve quality of life by:
 - Maximizing seizure control
 - Minimizing drug side effects



Antiepileptic Drugs (AED)

- Decrease frequency and/or severity of seizures in people with epilepsy
- Improve quality of life by
 - Maximizing seizure control
 - Minimizing drug side effects
- Treat the symptoms not the underlying condition



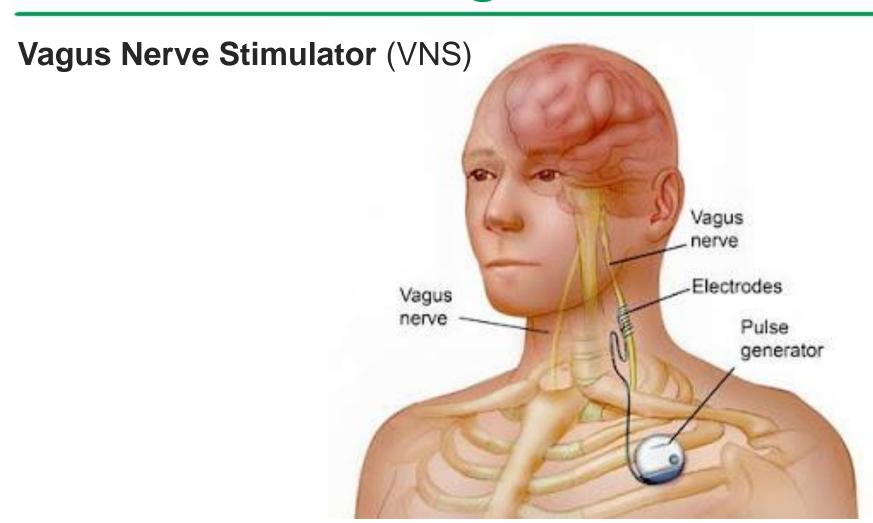
Antiepileptic Drugs (AED)

- Decrease frequency and/or severity of seizures in people with epilepsy
- Improve quality of life by
 - Maximizing seizure control
 - Minimizing drug side effects
- Treat the symptoms not the underlying condition
- Do not prevent or cure epilepsy



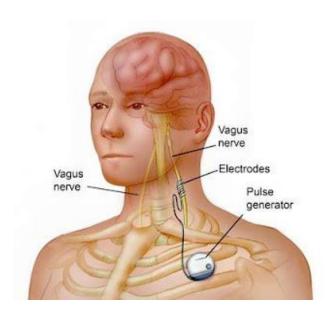


How to give your child Midazolam



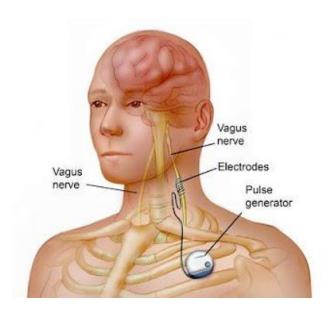
Vagus Nerve Stimulator (VNS)

Continuously sends small electrical pulses through Vagus nerve to the brain



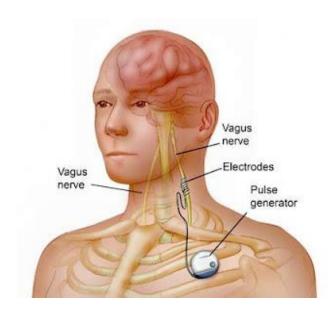
Vagus Nerve Stimulator (VNS)

- Continuously sends small electrical pulses through Vagus nerve to the brain
- Helps prevent seizures where they start



Vagus Nerve Stimulator (VNS)

- Continuously sends small electrical pulses through Vagus nerve to the brain
- Helps prevent seizures where they start
- Recommended for those who fail to obtain seizure control with antiepileptic medication



Ketogenic Diet



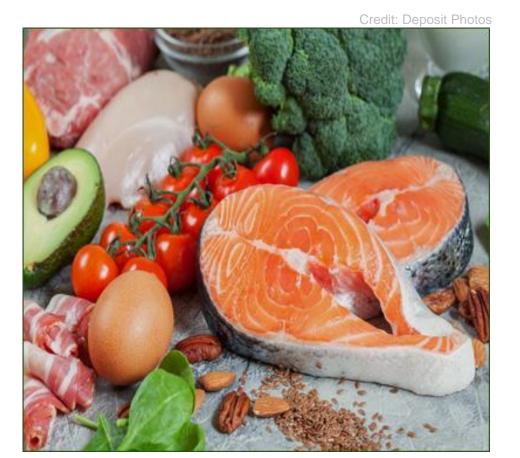
Credit: Deposit Photos





Ketogenic Diet

Low carbohydrate, high fat diet





Ketogenic Diet

- Low carbohydrate, high fat diet
- Changes the metabolism in the body from burning glucose for energy to burning fat for energy





Ketogenic Diet

- Low carbohydrate, high fat diet
- Changes the metabolism in the body from burning glucose for energy to burning fat for energy
- Produces ketone bodies, which cross blood brain barrier to produce energy for the brain





Ketogenic Diet

- Low carbohydrate, high fat diet
- Changes the metabolism in the body from burning glucose for energy to burning fat for energy
- Produces ketone bodies, which cross blood brain barrier to produce energy for the brain
- Requires close monitoring by multidisciplinary team





Surgery



Surgery



Reserved for those whose seizures are not well controlled by seizure medicines

Surgery



Accurately localize and completely remove the region of the brain responsible for the seizure

How Can I Use This Information?

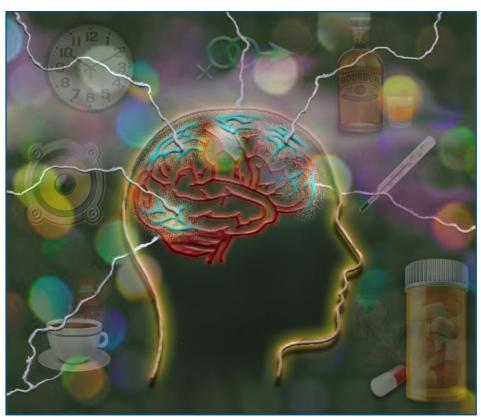
Pause and think about how you can use the information discussed in this section in your daily practice.



Credit: Deposit Photos

Review

Now that we have:



Credit: Martin Allison

Review

Now that we have:

 Described common diagnostic testing for individuals experiencing seizures



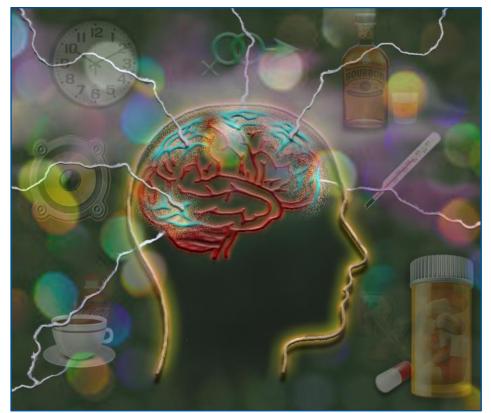
Credit: Martin Allison



Review

Now that we have:

- Described common diagnostic testing for individuals experiencing seizures
- Discussed treatment options for individuals experiencing seizures

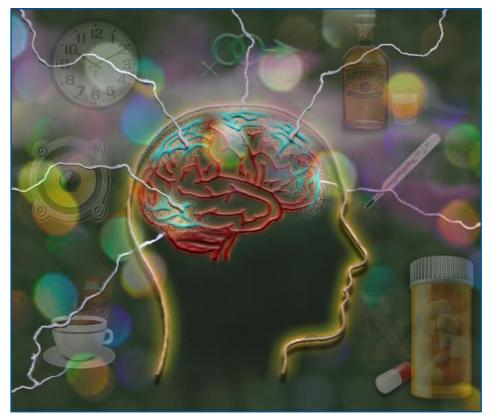


Credit: Martin Allison



Wrap-Up

Let's wrap up this video by looking at the Children's Healthcare of Atlanta Epilepsy program and additional resources for you to use.



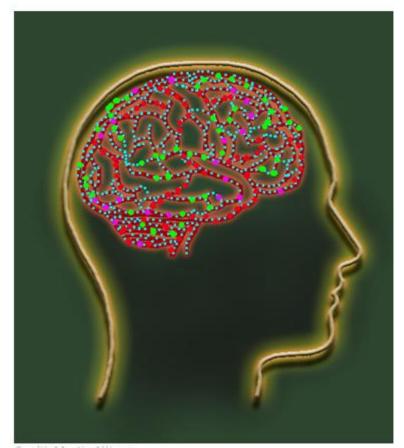
Credit: Martin Allison



Resources

Web Address	Resource 3
epilepsy.com	Epilepsy Foundation
seizuretracker.com	Seizure Self Management App (Free)
cdc.gov/epilepsy	Center for Disease Control Epilepsy Program
aesnet.org	American Epilepsy Society
webease.org	Web Based Self Management Program (Free)
choa.org/medical-services/neurosciences/epilepsy	Children's Healthcare of Atlanta Comprehensive Epilepsy Center
	Susan McCallum 404-785-3720 Susan.McCallum@choa.org

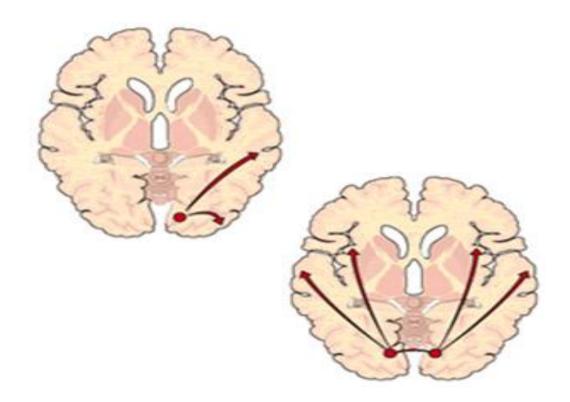
Overview of Epilepsy



Credit: Martin Allison



- 1. Overview of Epilepsy
- 2. Seizure Phases and Classifications



- 1. Overview of Epilepsy
- 2. Seizure Phases and Classifications
- 3. Seizure Diagnostics and Treatments



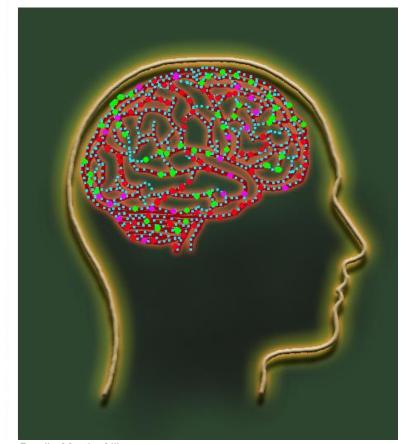
Credit: Children's Healthcare of Atlanta



- 1. Overview of Epilepsy
- 2. Seizure Phases and Classifications
- 3. Seizure Diagnostics and Treatments
- 4. Seizure First Aid



Credit: Deposit Photos



Credit: Martin Allison

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Video Credits





Rectal Diazepam (Diastat)...University of Wisconsin – Joint Project with Wisconsin Department of Public Instruction



How to Give your Child Midazolam...Children's Hospital Colorado

Photo & Graphics Credits

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