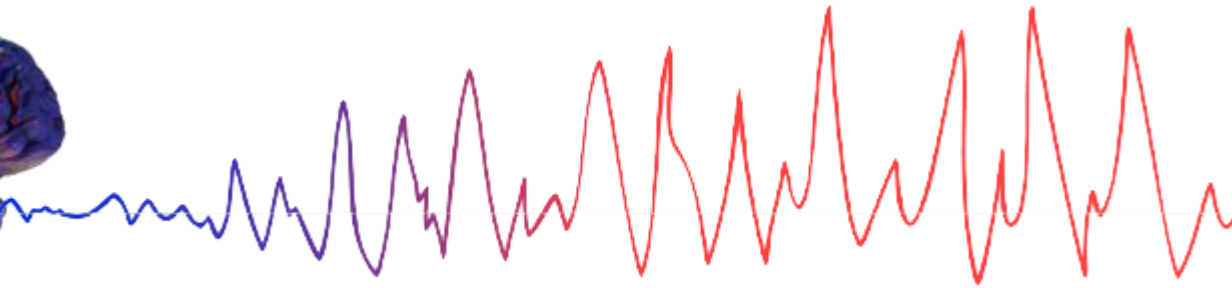
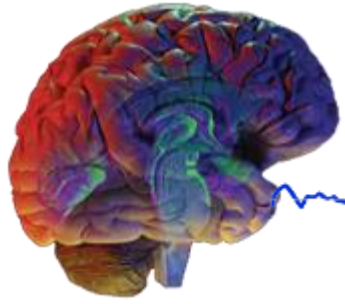


# Epilepsy Care in the School Setting

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Children's Epilepsy Educational Video Series





# Epilepsy Care in the School Setting

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## Children's Epilepsy Educational Video Series

Presented by Susan McCallum, MSN, RN  
Children's Comprehensive Epilepsy Center  
404-785-3720  
[www.choa.org](http://www.choa.org)



# Course Disclaimer

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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.

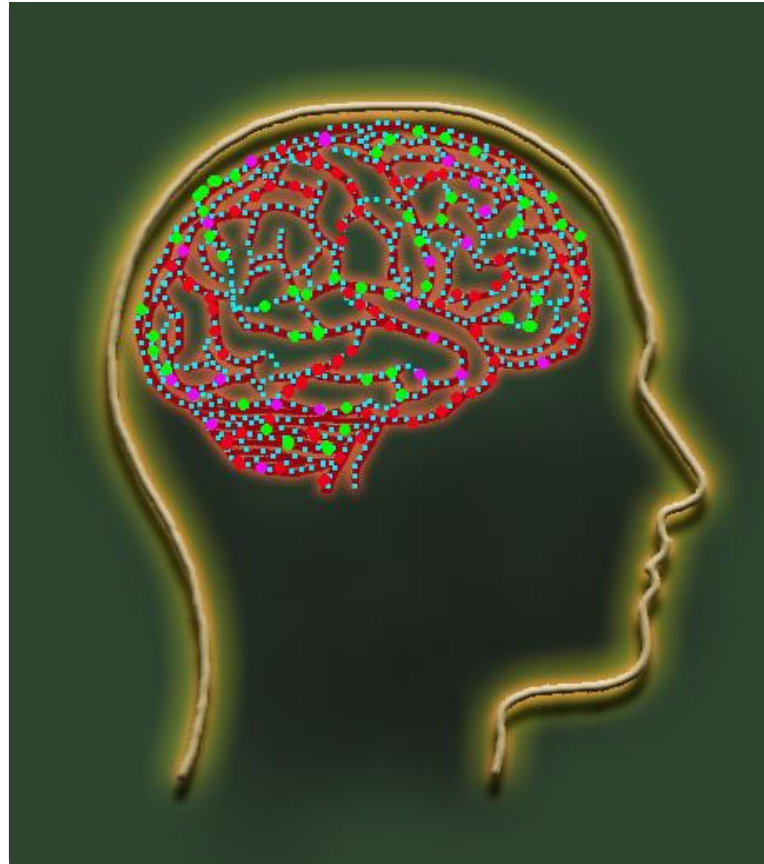


# Educational Activity Disclosure

## Epilepsy Seizure First Aid - Part 4 of 4

Disclosures	Action
Criteria for Successful Completion	<ul style="list-style-type: none"><li>• View entire recording</li><li>• Completion of evaluation</li></ul>
Conflicts of Interest Statements for Planning Committee	The planning committee members have no relevant financial relationship to declare.
Conflicts of Interest Statements for Faculty/Presenters/ Authors	The content experts/faculty/presenters/authors have no relevant financial relationship to declare.
Commercial Support	No commercial support is being received for this event.
Sponsorship	No sponsorship is being received for this event
Non-endorsement of Products	No products are being displayed at this event
Continuing Education	<p><b><i>This continuing nursing education activity was provided by Children's Healthcare of Atlanta.</i></b> Children's Healthcare of Atlanta is an approved provider of continuing nursing education by the <b>Alabama State Nurses Association</b>, an accredited approver by the American Nurses Credentialing Center's Commission on Accreditation.</p> <p><b>Contact hours: 0.5</b> <b>Activity ID: 2017-0508-01</b> <b>Expiration Date: 05/08/2019</b></p>





Credit: Martin Allison

# Epilepsy Seizure First Aid

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Children's Comprehensive Epilepsy Center

Presented by Susan McCallum, MSN, RN  
Children's Comprehensive Epilepsy Center  
404-785-3720  
[www.choa.org](http://www.choa.org)

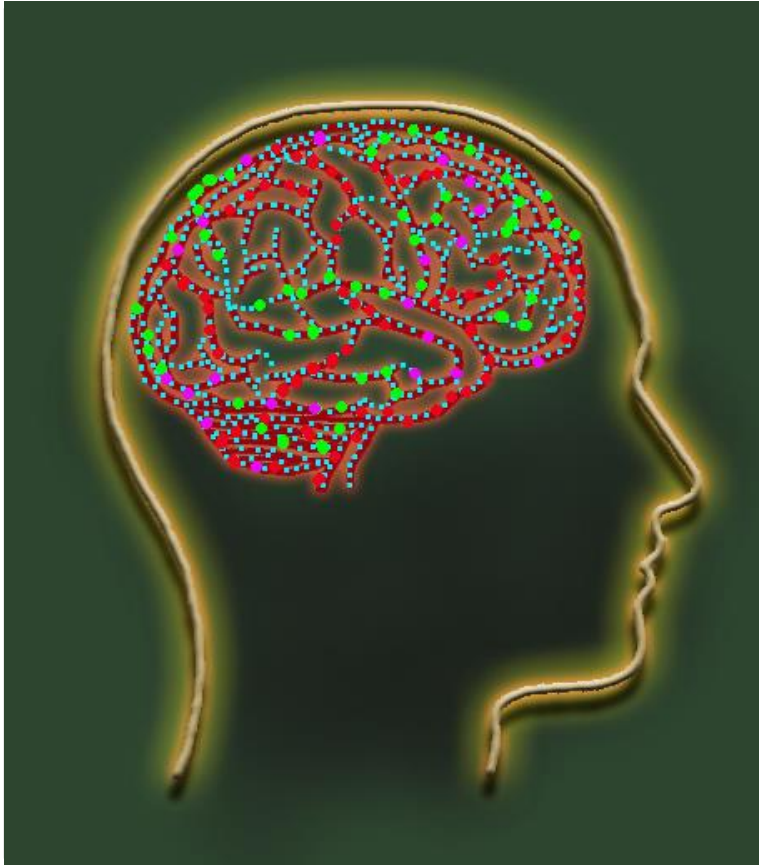
Children's Healthcare of Atlanta



# Main Focus

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This education video is intended for school nurses who:



Credit: Martin Allison



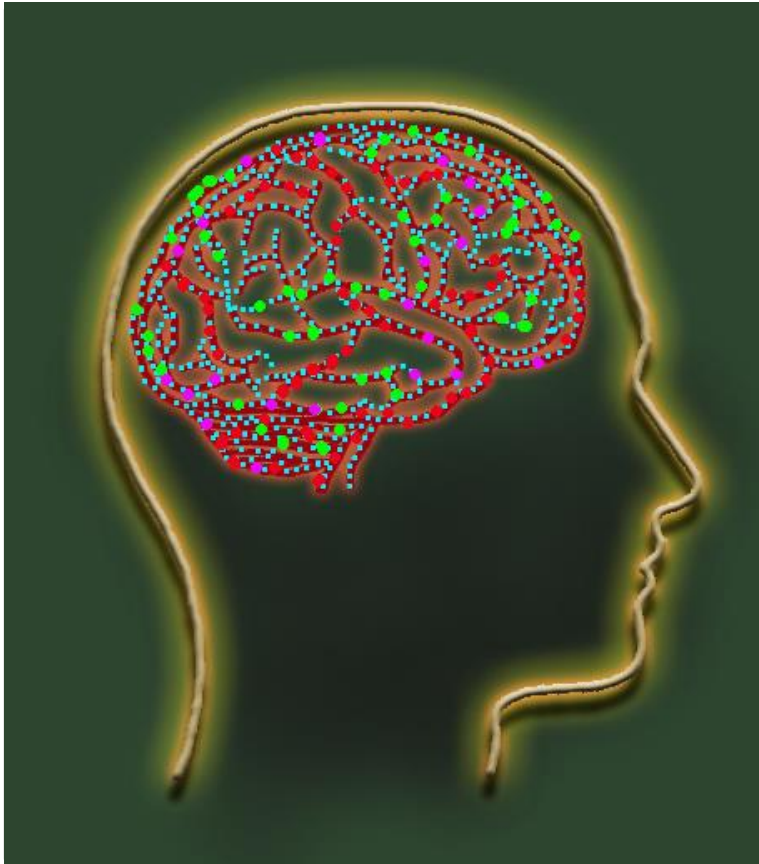


# Main Focus

---

This education video is intended for school nurses who:

- Care directly for students with epilepsy



Credit: Martin Allison



# Main Focus

---

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



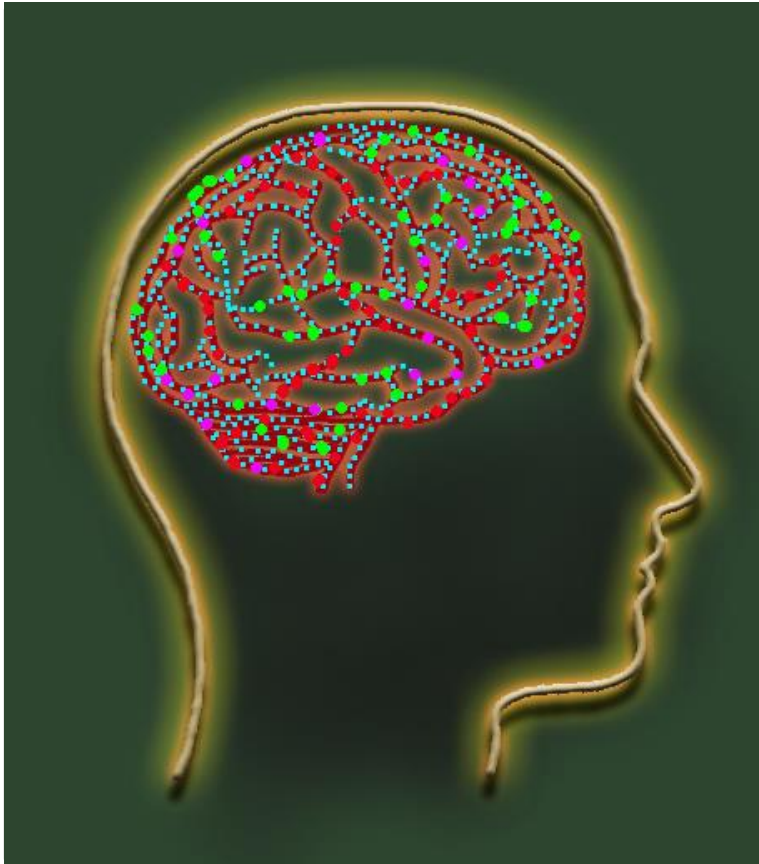


# Main Focus

---

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



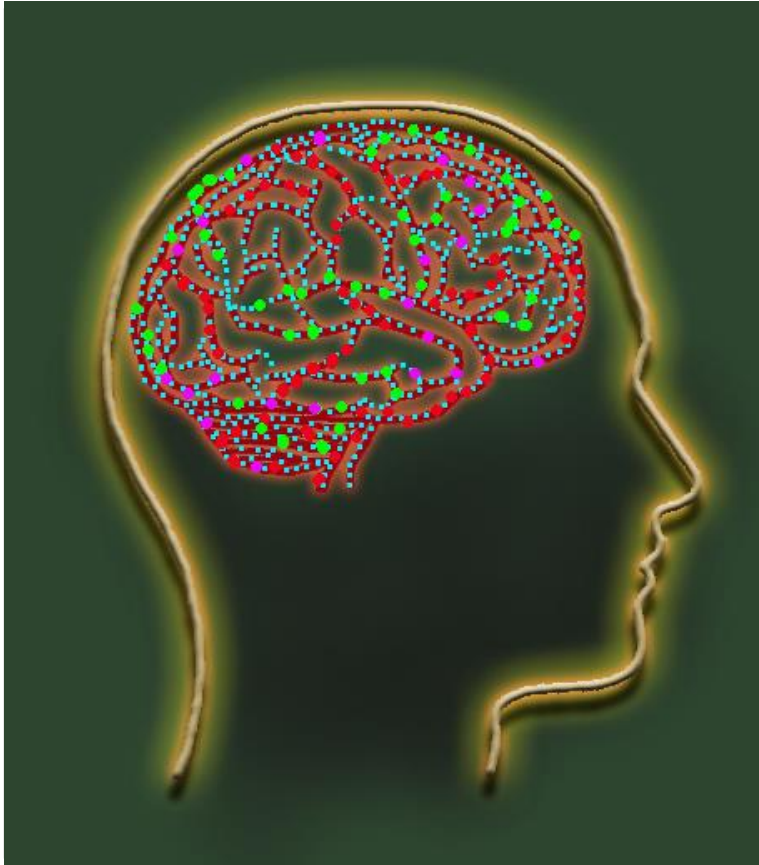
Credit: Martin Allison



# Learning Objectives

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- Describe a seizure action plan and its importance in seizure care



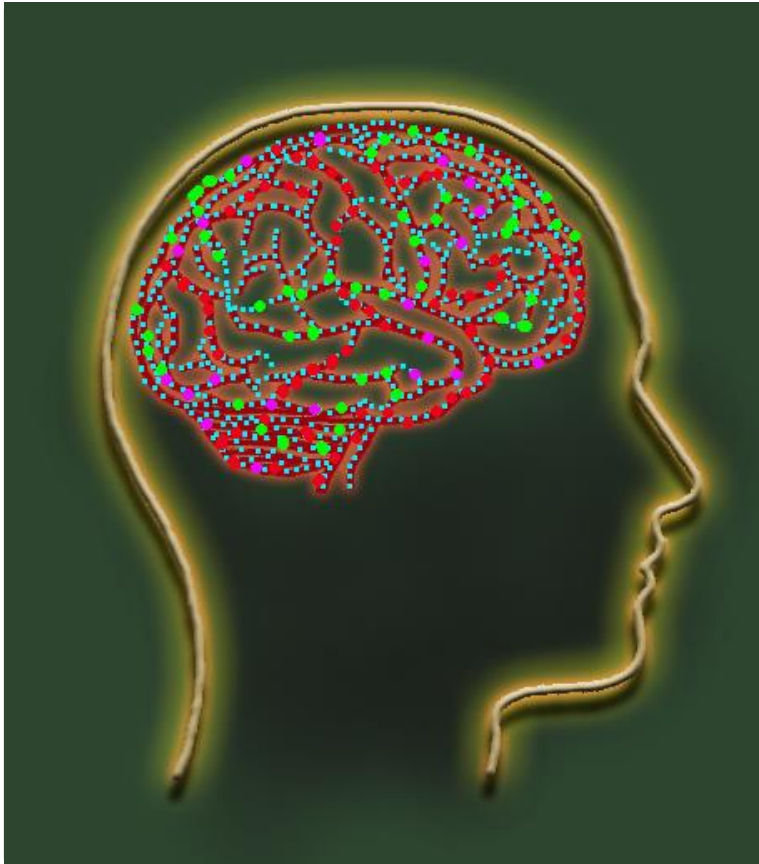
Credit: Martin Allison



# Learning Objectives

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- Describe a seizure action plan and its importance in seizure care
- Explain how to respond to an individual experiencing a seizure



Credit: Martin Allison



# Learning Objectives

---

- Describe a seizure action plan and its importance in seizure care
- Explain how to respond to an individual experiencing a seizure
- Discuss common seizure medications and methods of administration



Credit: Martin Allison




# Seizure Action Plan

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# Seizure Action Plan



Children's Pediatric Neurology Practice  
404-785-9850

**SEIZURE ACTION PLAN**

This student is being treated for a seizure disorder. The information below 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 Provider: \_\_\_\_\_ Phone: \_\_\_\_\_

Significant Medical History: \_\_\_\_\_

Seizure Information			
Seizure Type	Length	Frequency	Description

Seizure triggers or warning signs: \_\_\_\_\_

Student's response after a seizure: \_\_\_\_\_

Emergency Medications		
Medication	Dosage	Common Side Effects & Special Instructions

Green Zone Less than 2 minutes	Yellow Zone 2 to 5 minutes	Red Zone More than 5 minutes or 3 or more seizures in an hour
<ul style="list-style-type: none"> <li>• Begin seizure First Aid</li> <li>• Allow student to recover from seizure</li> <li>• Return student to class</li> <li>• Notify parent/guardian</li> </ul>	<ul style="list-style-type: none"> <li>• Continue Seizure First Aid</li> <li>• Call for help</li> <li>• Prepare to administer Diastat/Versed</li> <li>• Allow student to recover from seizure</li> <li>• Notify parent/guardian</li> <li>• Return student to class or to home as instructed by parent/guardian</li> </ul>	<ul style="list-style-type: none"> <li>• Continue Seizure First Aid</li> <li>• Administer Diastat/Versed</li> <li>• Monitor respirations and heart beat and start CPR if needed</li> <li>• Notify parent/guardian</li> <li>• Call 911 if seizure is greater than 7 minutes</li> </ul>

**Basic Seizure First Aid**

- Stay calm & track time
- Keep child safe
- Do not restrain
- Do not put anything in mouth
- Record seizure in log
- Stay with child until fully conscious

**For tonic-clonic seizure:**

- Protect head
- Keep airway open/watch breathing
- Turn child on side

**A seizure is generally considered an emergency when:**

- Convulsive (tonic-clonic) seizure lasts longer than 5 minutes
- Student has repeated seizures without regaining consciousness
- Student is injured or has diabetes
- Student has a first-time seizure
- Student has breathing difficulties
- Student has a seizure in water

**Special Considerations and Precautions (regarding school activities, sports, trips, etc)**

Describe any special considerations or precautions: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Provider Signature \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

Parent/Guardian Signature \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_


Green Zone Less than 2 minutes	Yellow Zone 2 to 5 minutes	Red Zone More than 5 minutes or 3 or more seizures in an hour
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# Seizure Action Plan

- A seizure action plan is specific to the individual with epilepsy

 Children's Pediatric Neurology Practice  
404-785-9850

**SEIZURE ACTION PLAN**

This student is being treated for a seizure disorder. The information below 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 Provider: \_\_\_\_\_ Phone: \_\_\_\_\_

Significant Medical History: \_\_\_\_\_

Seizure Information			
Seizure Type	Length	Frequency	Description

Seizure triggers or warning signs: \_\_\_\_\_

Student's response after a seizure: \_\_\_\_\_

Emergency Medications		
Medication	Dosage	Common Side Effects & Special Instructions

Green Zone Less than 2 minutes	Yellow Zone 2 to 5 minutes	Red Zone More than 5 minutes or 3 or more seizures in an hour
<ul style="list-style-type: none"> <li>Begin seizure First Aid</li> <li>Allow student to recover from seizure</li> <li>Return student to class</li> <li>Notify parent/guardian</li> </ul>	<ul style="list-style-type: none"> <li>Continue Seizure First Aid</li> <li>Call for help</li> <li>Prepare to administer Diastat/Versed</li> <li>Allow student to recover from seizure</li> <li>Notify parent/guardian</li> <li>Return student to class or to home as instructed by parent/guardian</li> </ul>	<ul style="list-style-type: none"> <li>Continue Seizure First Aid</li> <li>Administer Diastat/Versed</li> <li>Monitor respirations and heart beat and start CPR if needed</li> <li>Notify parent/guardian</li> <li>Call 911 if seizure is greater than 7 minutes</li> </ul>

Basic Seizure First Aid		A seizure is generally considered an emergency when:
<ul style="list-style-type: none"> <li>Stay calm &amp; track time</li> <li>Keep child safe</li> <li>Do not restrain</li> <li>Do not put anything in mouth</li> <li>Record seizure in log</li> <li>Stay with child until fully conscious</li> </ul>	For tonic-clonic seizure: <ul style="list-style-type: none"> <li>Protect head</li> <li>Keep airway open/watch breathing</li> <li>Turn child on side</li> </ul>	

**Special Considerations and Precautions** (regarding school activities, sports, trips, etc)

Describe any special considerations or precautions: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Provider Signature \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

Parent/Guardian Signature \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

Green Zone Less than 2 minutes	Yellow Zone 2 to 5 minutes	Red Zone More than 5 minutes or 3 or more seizures in an hour
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# Seizure Action Plan

- A seizure action plan is specific to the individual with epilepsy
- Completed by a physician



Children's Pediatric Neurology Practice  
404-785-9850

**SEIZURE ACTION PLAN**

This student is being treated for a seizure disorder. The information below 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 Provider: \_\_\_\_\_ Phone: \_\_\_\_\_

Significant Medical History: \_\_\_\_\_

Seizure Information			
Seizure Type	Length	Frequency	Description

Seizure triggers or warning signs: \_\_\_\_\_

Student's response after a seizure: \_\_\_\_\_

Emergency Medications		
Medication	Dosage	Common Side Effects & Special Instructions

Green Zone Less than 2 minutes	Yellow Zone 2 to 5 minutes	Red Zone More than 5 minutes or 3 or more seizures in an hour
<ul style="list-style-type: none"> <li>• Begin seizure First Aid</li> <li>• Allow student to recover from seizure</li> <li>• Return student to class</li> <li>• Notify parent/guardian</li> </ul>	<ul style="list-style-type: none"> <li>• Continue Seizure First Aid</li> <li>• Call for help</li> <li>• Prepare to administer Diastat/Versed</li> <li>• Allow student to recover from seizure</li> <li>• Notify parent/guardian</li> <li>• Return student to class or to home as instructed by parent/guardian</li> </ul>	<ul style="list-style-type: none"> <li>• Continue Seizure First Aid</li> <li>• Administer Diastat/Versed</li> <li>• Monitor respirations and heart beat and start CPR if needed</li> <li>• Notify parent/guardian</li> <li>• Call 911 if seizure is greater than 7 minutes</li> </ul>

**Basic Seizure First Aid**

- Stay calm & track time
- Keep child safe
- Do not restrain
- Do not put anything in mouth
- Record seizure in log
- Stay with child until fully conscious

**For tonic-clonic seizure:**

- Protect head
- Keep airway open/watch breathing
- Turn child on side

**A seizure is generally considered an emergency when:**

- Convulsive (tonic-clonic) seizure lasts longer than 5 minutes
- Student has repeated seizures without regaining consciousness
- Student is injured or has diabetes
- Student has a first-time seizure
- Student has breathing difficulties
- Student has a seizure in water

**Special Considerations and Precautions (regarding school activities, sports, trips, etc)**

Describe any special considerations or precautions: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_


Provider Signature \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

Parent/Guardian Signature \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

Green Zone Less than 2 minutes	Yellow Zone 2 to 5 minutes	Red Zone More than 5 minutes or 3 or more seizures in an hour
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# Seizure Action Plan

- A seizure action plan is specific to the individual with epilepsy
- Completed by a physician
- Describes a typical seizure for the individual

 **Children's**  
Healthcare of Atlanta

Children's Pediatric Neurology Practice  
404-785-9850

**SEIZURE ACTION PLAN**

This student is being treated for a seizure disorder. The information below 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 Provider: \_\_\_\_\_ Phone: \_\_\_\_\_

Significant Medical History: \_\_\_\_\_

**Seizure Information**

Seizure Type	Length	Frequency	Description

Seizure triggers or warning signs: \_\_\_\_\_

Student's response after a seizure: \_\_\_\_\_

**Emergency Medications**

Medication	Dosage	Common Side Effects & Special Instructions

Green Zone Less than 2 minutes	Yellow Zone 2 to 5 minutes	Red Zone More than 5 minutes or 3 or more seizures in an hour
<ul style="list-style-type: none"> <li>• Begin seizure First Aid</li> <li>• Allow student to recover from seizure</li> <li>• Return student to class</li> <li>• Notify parent/guardian</li> </ul>	<ul style="list-style-type: none"> <li>• Continue Seizure First Aid</li> <li>• Call for help</li> <li>• Prepare to administer Diastat/Versed</li> <li>• Allow student to recover from seizure</li> <li>• Notify parent/guardian</li> <li>• Return student to class or to home as instructed by parent/guardian</li> </ul>	<ul style="list-style-type: none"> <li>• Continue Seizure First Aid</li> <li>• Administer Diastat/Versed</li> <li>• Monitor respirations and heart beat and start CPR if needed</li> <li>• Notify parent/guardian</li> <li>• Call 911 if seizure is greater than 7 minutes</li> </ul>

**Basic Seizure First Aid**

- Stay calm & track time  
- Keep child safe  
- Do not restrain  
- Do not put anything in mouth  
- Record seizure in log  
- Stay with child until fully conscious

For tonic-clonic seizure:  
- Protect head  
- Keep airway open/watch breathing  
- Turn child on side

**A seizure is generally considered an emergency when:**

- Convulsive (tonic-clonic) seizure lasts longer than 5 minutes  
- Student has repeated seizures without regaining consciousness  
- Student is injured or has diabetes  
- Student has a first-time seizure  
- Student has breathing difficulties  
- Student has a seizure in water

**Special Considerations and Precautions (regarding school activities, sports, trips, etc)**

Describe any special considerations or precautions: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Provider Signature \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_


Parent/Guardian Signature \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

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# Seizure Action Plan

- A seizure action plan is specific to the individual with epilepsy
- Completed by a physician
- Describes a typical seizure for the individual
- Provides guidance on how to manage the seizures



Children's Pediatric Neurology Practice  
404-785-9850

**SEIZURE ACTION PLAN**

This student is being treated for a seizure disorder. The information below 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 Provider: \_\_\_\_\_ Phone: \_\_\_\_\_

Significant Medical History: \_\_\_\_\_

Seizure Information			
Seizure Type	Length	Frequency	Description

Seizure triggers or warning signs: \_\_\_\_\_

Student's response after a seizure: \_\_\_\_\_

Emergency Medications		
Medication	Dosage	Common Side Effects & Special Instructions

Green Zone Less than 2 minutes	Yellow Zone 2 to 5 minutes	Red Zone More than 5 minutes or 3 or more seizures in an hour
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**Basic Seizure First Aid**

- Stay calm & track time
- Keep child safe
- Do not restrain
- Do not put anything in mouth
- Record seizure in log
- Stay with child until fully conscious

**For tonic-clonic seizure:**

- Protect head
- Keep airway open/watch breathing
- Turn child on side

**A seizure is generally considered an emergency when:**

- Convulsive (tonic-clonic) seizure lasts longer than 5 minutes
- Student has repeated seizures without regaining consciousness
- Student is injured or has diabetes
- Student has a first-time seizure
- Student has breathing difficulties
- Student has a seizure in water

**Special Considerations and Precautions (regarding school activities, sports, trips, etc)**

Describe any special considerations or precautions: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Provider Signature \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_


Parent/Guardian Signature \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

Green Zone Less than 2 minutes	Yellow Zone 2 to 5 minutes	Red Zone More than 5 minutes or 3 or more seizures in an hour
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# Seizure Action Plan

- A seizure action plan is specific to the individual with epilepsy
- Completed by a physician
- Describes a typical seizure for the individual
- Provides guidance on how to manage the seizures
- The student's seizure action plan is always to be followed



Children's Pediatric Neurology Practice  
404-785-9850

**SEIZURE ACTION PLAN**

This student is being treated for a seizure disorder. The information below 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 Provider: \_\_\_\_\_ Phone: \_\_\_\_\_

Significant Medical History: \_\_\_\_\_

Seizure Information			
Seizure Type	Length	Frequency	Description

Seizure triggers or warning signs: \_\_\_\_\_

Student's response after a seizure: \_\_\_\_\_

Emergency Medications		
Medication	Dosage	Common Side Effects & Special Instructions

Green Zone Less than 2 minutes	Yellow Zone 2 to 5 minutes	Red Zone More than 5 minutes or 3 or more seizures in an hour
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**Basic Seizure First Aid**

- Stay calm & track time
- Keep child safe
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- Protect head
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**Special Considerations and Precautions (regarding school activities, sports, trips, etc)**

Describe any special considerations or precautions: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Provider Signature \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

Parent/Guardian Signature \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

Green Zone Less than 2 minutes	Yellow Zone 2 to 5 minutes	Red Zone More than 5 minutes or 3 or more seizures in an hour
<ul style="list-style-type: none"> <li>• Begin seizure First Aid</li> <li>• Allow student to recover from seizure</li> <li>• Return student to class</li> <li>• Notify parent/guardian</li> </ul>	<ul style="list-style-type: none"> <li>• Continue Seizure First Aid</li> <li>• Call for help</li> <li>• Prepare to administer Diastat/Versed</li> <li>• Allow student to recover from seizure</li> <li>• Notify parent/guardian</li> <li>• Return student to class or to home as instructed by parent/guardian</li> </ul>	<ul style="list-style-type: none"> <li>• Continue Seizure First Aid</li> <li>• Administer Diastat/Versed</li> <li>• Monitor respirations and heart beat and start CPR if needed</li> <li>• Notify parent/guardian</li> <li>• Call 911 if seizure is greater than 7 minutes</li> </ul>

# Seizure Risks

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# Seizure Risks

---



Credit: Martin Allison



# Seizure Risks

---

- Falls



Credit: Martin Allison



# Seizure Risks

---



Credit: Martin Allison

- Falls
- Bitten tongue



# Seizure Risks

---



Credit: Martin Allison

- Falls
- Bitten tongue
- Prolonged or cluster seizures increase risk of:



# Seizure Risks

---



Credit: Martin Allison

- Falls
- Bitten tongue
- Prolonged or cluster seizures increase risk of:
  - Brain damage





# Seizure Risks

---



Credit: Martin Allison

- Falls
- Bitten tongue
- Prolonged or cluster seizures increase risk of:
  - Brain damage
  - Respiratory compromise





# Seizure Risks

---



Credit: Martin Allison

- Falls
- Bitten tongue
- Prolonged or cluster seizures increase risk of:
  - Brain damage
  - Respiratory compromise
  - Cardiac arrhythmia



# Seizure Risks

---



Credit: Martin Allison

- Falls
- Bitten tongue
- Prolonged or cluster seizures increase risk of:
  - Brain damage
  - Respiratory compromise
  - Cardiac arrhythmia
  - Status Epilepticus



# Seizure First Aid

---



# Seizure First Aid

---



Credit: Deposit Photos



# Seizure First Aid

---

- Stay Calm



Credit: Deposit Photos



# Seizure First Aid

---

- Stay Calm
- Ease the person to the floor and gently turn onto one side



Credit: Deposit Photos





# Seizure First Aid

---

- Stay Calm
- Ease the person to the floor and gently turn onto one side
- Remove any objects in the area that might cause injury



Credit: Deposit Photos



# Seizure First Aid

---

- Stay Calm
- Ease the person to the floor and gently turn onto one side
- Remove any objects in the area that might cause injury
- Put something soft and flat under victim's head



Credit: Deposit Photos



# Seizure First Aid

---

- Stay Calm
- Ease the person to the floor and gently turn onto one side
- Remove any objects in the area that might cause injury
- Put something soft and flat under victim's head
- Remove glasses and loosen anything around the neck



Credit: Deposit Photos



# Seizure First Aid

---

- Stay Calm
- Ease the person to the floor and gently turn onto one side
- Remove any objects in the area that might cause injury
- Put something soft and flat under victim's head
- Remove glasses and loosen anything around the neck
- Do NOT try to stop the person's movements



Credit: Deposit Photos



# Seizure First Aid

---

- Stay Calm
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- Remove any objects in the area that might cause injury
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- Remove glasses and loosen anything around the neck
- Do NOT try to stop the person's movements
- Do NOT put anything in a person's mouth



Credit: Deposit Photos



# Seizure First Aid

---

- Stay Calm
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- Remove any objects in the area that might cause injury
- Put something soft and flat under victim's head
- Remove glasses and loosen anything around the neck
- Do NOT try to stop the person's movements
- Do NOT put anything in a person's mouth
- Time the seizure



Credit: Deposit Photos





# Seizure First Aid

---

- Stay Calm
- Ease the person to the floor and gently turn onto one side
- Remove any objects in the area that might cause injury
- Put something soft and flat under victim's head
- Remove glasses and loosen anything around the neck
- Do NOT try to stop the person's movements
- Do NOT put anything in a person's mouth
- Time the seizure
  - If the seizure lasts longer than 5 minutes or is followed by another seizure without regaining consciousness, begin emergency treatment



Credit: Deposit Photos



# Seizure First Aid

---

- Stay Calm
- Ease the person to the floor and gently turn onto one side
- Remove any objects in the area that might cause injury
- Put something soft and flat under victim's head
- Remove glasses and loosen anything around the neck
- Do NOT try to stop the person's movements
- Do NOT put anything in a person's mouth
- Time the seizure
- Follow the student's Seizure Action Plan



Credit: Deposit Photos



# When to Call 911

---



# When to Call 911

---

- If this is the first instance of seizure



Credit: Martin Allison



# When to Call 911

---

- If this is the first instance of seizure
- If seizure persists after administration of medication



Credit: Martin Allison



# When to Call 911

---

- If this is the first instance of seizure
- If seizure persists after administration of medication
- If individual gets injured



Credit: Martin Allison





# When to Call 911

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- If this is the first instance of seizure
- If seizure persists after administration of medication
- If individual gets injured
- If there is any respiratory compromise



Credit: Martin Allison



# When to Call 911

---

- If this is the first instance of seizure
- If seizure persists after administration of medication
- If individual gets injured
- If there is any respiratory compromise
- If seizures occur in back-to-back clusters without regaining consciousness



Credit: Martin Allison



# When to Call 911

---

- If this is the first instance of seizure
- If seizure persists after administration of medication
- If individual gets injured
- If there is any respiratory compromise
- If seizures occur in back-to-back clusters without regaining consciousness
- If individual is pregnant or diabetic



Credit: Martin Allison



# Seizure Rescue Medications

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# Seizure Rescue Medications

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Credit: Martin Allison



# Seizure Rescue Medications

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## Rectal Diazepam (Diastat)



Credit: Martin Allison





# Seizure Rescue Medications

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## Rectal Diazepam (Diastat)



Credit: Martin Allison

## Intranasal Midazolam (Versed)



Credit: Susan McCallum and Martin Allison



# Rectal Diazepam (Diastat)

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- A gel formulation of Diazepam (Valium)



Credit: Martin Allison



# Rectal Diazepam (Diastat)

---

- A gel formulation of Diazepam (Valium)
- Given rectally



Credit: Martin Allison



# Rectal Diazepam (Diastat)

---

- A gel formulation of Diazepam (Valium)
- Given rectally
- An FDA approved, as-needed medication for management of prolonged (> 5 mins) and/or cluster seizures in patients with epilepsy



Credit: Martin Allison



# Rectal Diazepam (Diastat)

---

- A gel formulation of Diazepam (Valium)
- Given rectally
- An FDA approved, as-needed medication for management of prolonged (> 5 mins) and/or cluster seizures in patients with epilepsy
- Locked into correct dose by pharmacy



Credit: Martin Allison



# Rectal Diazepam (Diastat)

---

- A gel formulation of Diazepam (Valium)
- Given rectally
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- Shelf life of 4 years



Credit: Martin Allison





# Rectal Diazepam (Diastat)

---

- A gel formulation of Diazepam (Valium)
- Given rectally
- An FDA approved, as-needed medication for management of prolonged (> 5 mins) and/or cluster seizures in patients with epilepsy
- Locked into correct dose by pharmacy
- Shelf life of 4 years
- Dosing and expiration date should be checked regularly



Credit: Martin Allison



# Rectal Diazepam (Diastat)

---

- May take seconds or up to 15 minutes to be completely effective



Credit: Martin Allison



# Rectal Diazepam (Diastat)

---

- May take seconds or up to 15 minutes to be completely effective
- Children often go to sleep after this medication is given



Credit: Martin Allison



# Rectal Diazepam (Diastat)

---

- May take seconds or up to 15 minutes to be completely effective
- Children often go to sleep after this medication is given
- Check breathing and heart rate



Credit: Martin Allison



# Rectal Diazepam (Diastat)

---

- May take seconds or up to 15 minutes to be completely effective
- Children often go to sleep after this medication is given
- Check breathing and heart rate
  - In rare instances, children can have respiratory suppression with this class of medications



Credit: Martin Allison



# Diastat Administration

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Credit: Martin Allison





# How to Administer Rectal Diazepam

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Video Courtesy of Wisconsin Department of Public Instruction



# Rectal Diazepam (Diastat®)



# Intranasal Midazolam (Versed)

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- The intranasal route can be convenient for administering medications



Credit: Susan McCallum and Martin Allison



# Intranasal Midazolam (Versed)

---

- The intranasal route can be convenient for administering medications
- The nasal mucosa is highly vascularized, allowing for quick absorption



Credit: Susan McCallum and Martin Allison



# Intranasal Midazolam (Versed)

---

- The intranasal route can be convenient for administering medications
- The nasal mucosa is highly vascularized, allowing for quick absorption
- Within a few minutes of intranasal administration, blood levels are similar to that of giving midazolam IV



Credit: Susan McCallum and Martin Allison



# Intranasal Midazolam (Versed)

---

- The intranasal route can be convenient for administering medications
- The nasal mucosa is highly vascularized, allowing for quick absorption
- Within a few minutes of intranasal administration, blood levels are similar to that of giving midazolam IV
  - Onset of action – 5 minutes



Credit: Susan McCallum and Martin Allison





# Intranasal Midazolam (Versed)

- The intranasal route can be convenient for administering medications
- The nasal mucosa is highly vascularized, allowing for quick absorption
- Within a few minutes of intranasal administration, blood levels are similar to that of giving midazolam IV
  - Onset of action – 5 minutes
  - Maximum effect – 10 minutes



Credit: Susan McCallum and Martin Allison



# Intranasal Midazolam (Versed)

- The intranasal route can be convenient for administering medications
- The nasal mucosa is highly vascularized, allowing for quick absorption
- Within a few minutes of intranasal administration, blood levels are similar to that of giving midazolam IV
  - Onset of action – 5 minutes
  - Maximum effect – 10 minutes
  - Duration of effect – 30-60 minutes



Credit: Susan McCallum and Martin Allison



# Versed Administration

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Credit: Susan McCallum and Martin Allison



# How to Administer Midazolam

---

Video Curtesy of Children's Colorado Hospital



# How to give your child Midazolam



# Seizure Safety

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# Seizure Safety

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- Driving



# Seizure Safety

---

- Driving
  - GA Law states that you must be seizure free for 6 months to be eligible to drive

# Seizure Safety

---

- Driving
  - GA Law states that you must be seizure free for 6 months to be eligible to drive
- Kitchen

# Seizure Safety

---

- Driving
  - GA Law states that you must be seizure free for 6 months to be eligible to drive
- Kitchen
  - Use non-breakable dishes, cook with a partner



# Seizure Safety

---

- Driving
  - GA Law states that you must be seizure free for 6 months to be eligible to drive
- Kitchen
  - Use non-breakable dishes, cook with a partner
- Bathroom



# Seizure Safety

---

- Driving
  - GA Law states that you must be seizure free for 6 months to be eligible to drive
- Kitchen
  - Use non-breakable dishes, cook with a partner
- Bathroom
  - Bathtub drownings are the # 1 cause of accidental death for people with epilepsy or seizures





# Seizure Safety

---

- Driving
  - GA Law states that you must be seizure free for 6 months to be eligible to drive
- Kitchen
  - Use non-breakable dishes, cook with a partner
- Bathroom
  - Bathtub drownings are the # 1 cause of accidental death for people with epilepsy or seizures
  - Take showers instead of baths and use shower curtains instead of glass doors



# Seizure Safety

---

- Driving
  - GA Law states that you must be seizure free for 6 months to be eligible to drive
- Kitchen
  - Use non-breakable dishes, cook with a partner
- Bathroom
  - Bathtub drownings are the # 1 cause of accidental death for people with epilepsy or seizures
  - Take showers instead of baths and use shower curtains instead of glass doors
- Seizure control



# Seizure Safety

---

- Driving
  - GA Law states that you must be seizure free for 6 months to be eligible to drive
- Kitchen
  - Use non-breakable dishes, cook with a partner
- Bathroom
  - Bathtub drownings are the # 1 cause of accidental death for people with epilepsy or seizures
  - Take showers instead of baths and use shower curtains instead of glass doors
- Seizure control
  - Do everything possible to maintain control of seizures



# Seizure Safety

---

- Driving
  - GA Law states that you must be seizure free for 6 months to be eligible to drive
- Kitchen
  - Use non-breakable dishes, cook with a partner
- Bathroom
  - Bathtub drownings are the # 1 cause of accidental death for people with epilepsy or seizures
  - Take showers instead of baths and use shower curtains instead of glass doors
- Seizure control
  - Do everything possible to maintain control of seizures
  - Risk of death is 40 times higher in those with uncontrolled seizures



# How Can I Use This Information?

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



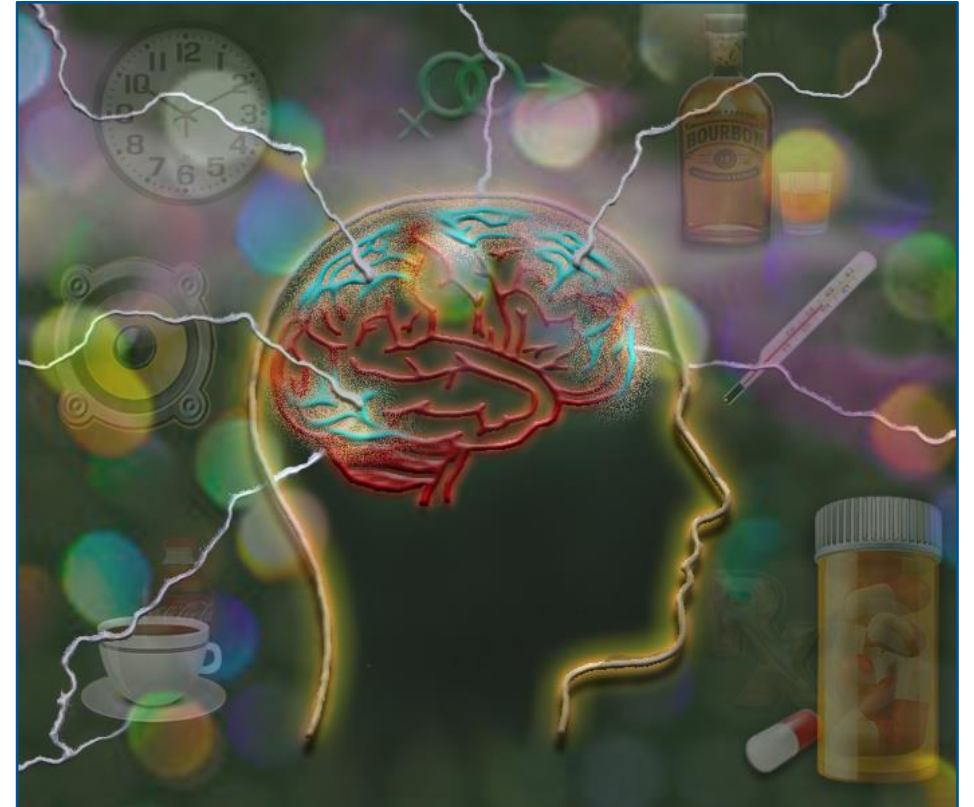
Credit: Deposit Photos



# Review

---

Now that we have:



Credit: Martin Allison

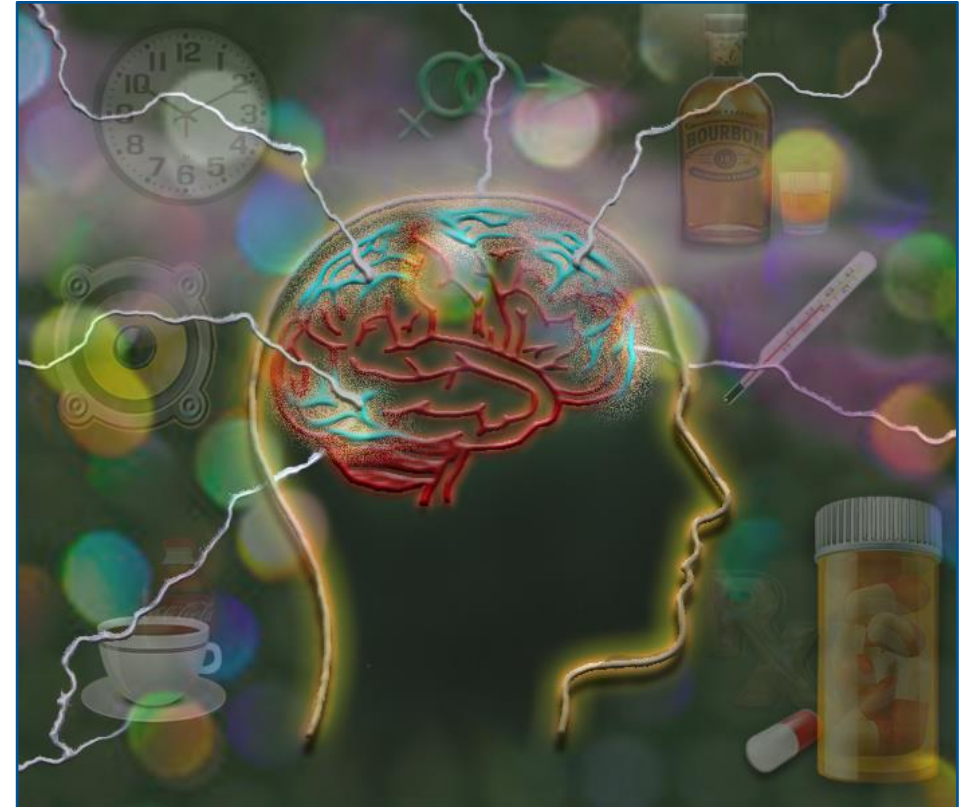


# Review

---

Now that we have:

- Described a seizure action plan and its importance in seizure care



Credit: Martin Allison



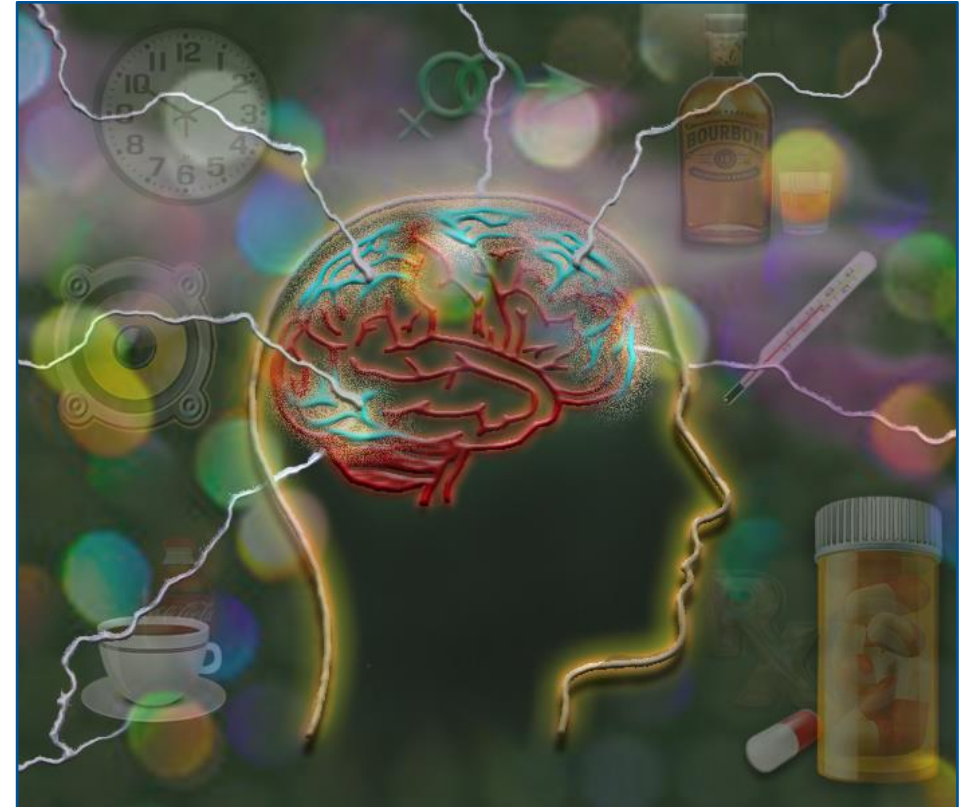


# Review

---

Now that we have:

- Described a seizure action plan and it's importance in seizure care
- Explain how to respond to an individual experiencing a seizure



Credit: Martin Allison

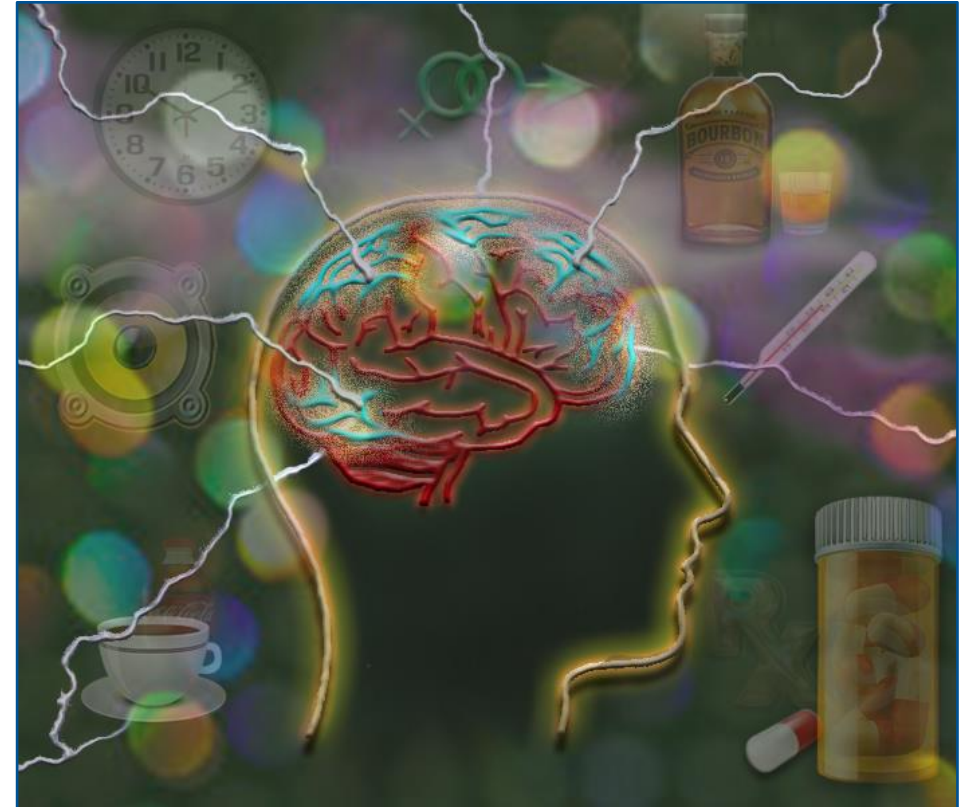


# Review

---

Now that we have:

- Described a seizure action plan and it's importance in seizure care
- Explain how to respond to an individual experiencing a seizure
- Discuss common seizure medications and methods of administration



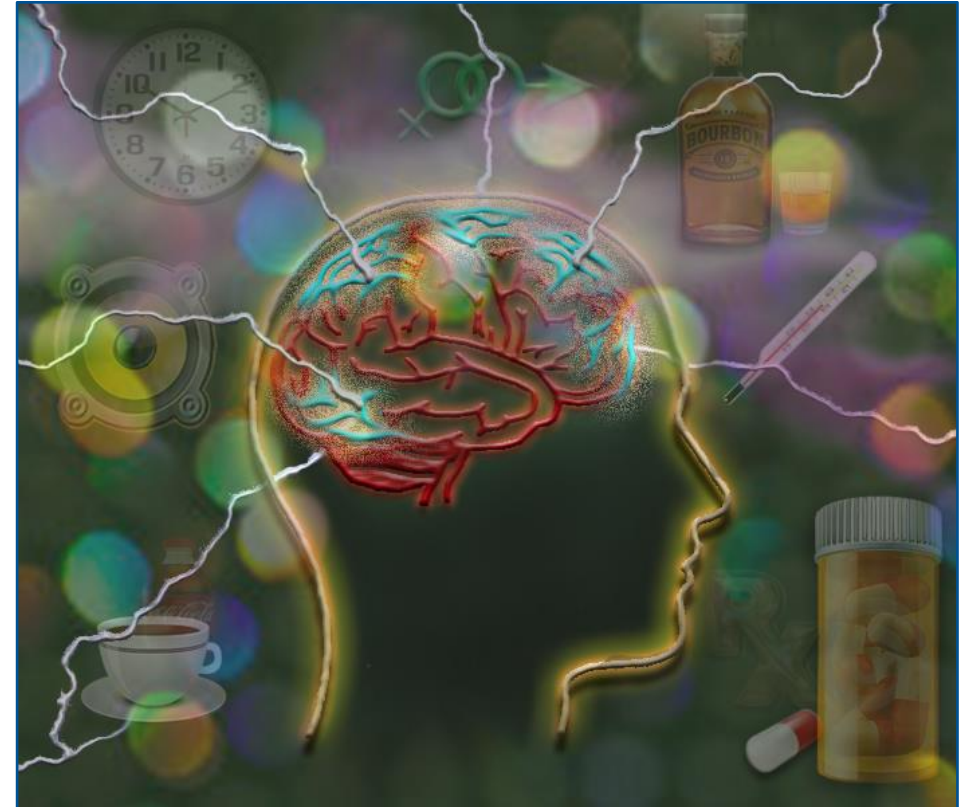
Credit: Martin Allison



# Wrap-Up

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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	4
<a href="http://epilepsy.com">epilepsy.com</a>	Epilepsy Foundation	
<a href="http://seizuretracker.com">seizuretracker.com</a>	Seizure Self Management App (Free)	
<a href="http://cdc.gov/epilepsy">cdc.gov/epilepsy</a>	Center for Disease Control Epilepsy Program	
<a href="http://aesnet.org">aesnet.org</a>	American Epilepsy Society	
<a href="http://webease.org">webease.org</a>	Web Based Self Management Program (Free)	
<a href="http://choa.org/medical-services/neurosciences/epilepsy">choa.org/medical-services/neurosciences/epilepsy</a>	Children's Healthcare of Atlanta Comprehensive Epilepsy Center Susan McCallum 404-785-3720 <a href="mailto:Susan.McCallum@choa.org">Susan.McCallum@choa.org</a>	



# Epilepsy Care in a School Setting

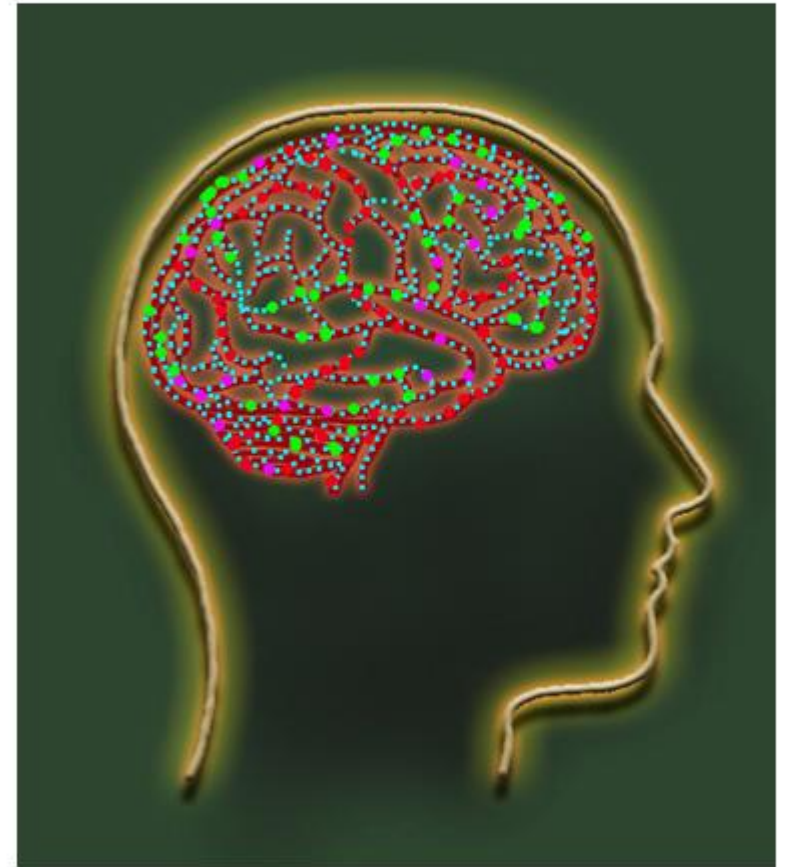
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# Epilepsy Care in a School Setting

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## 1. Overview of Epilepsy



Credit: Martin Allison

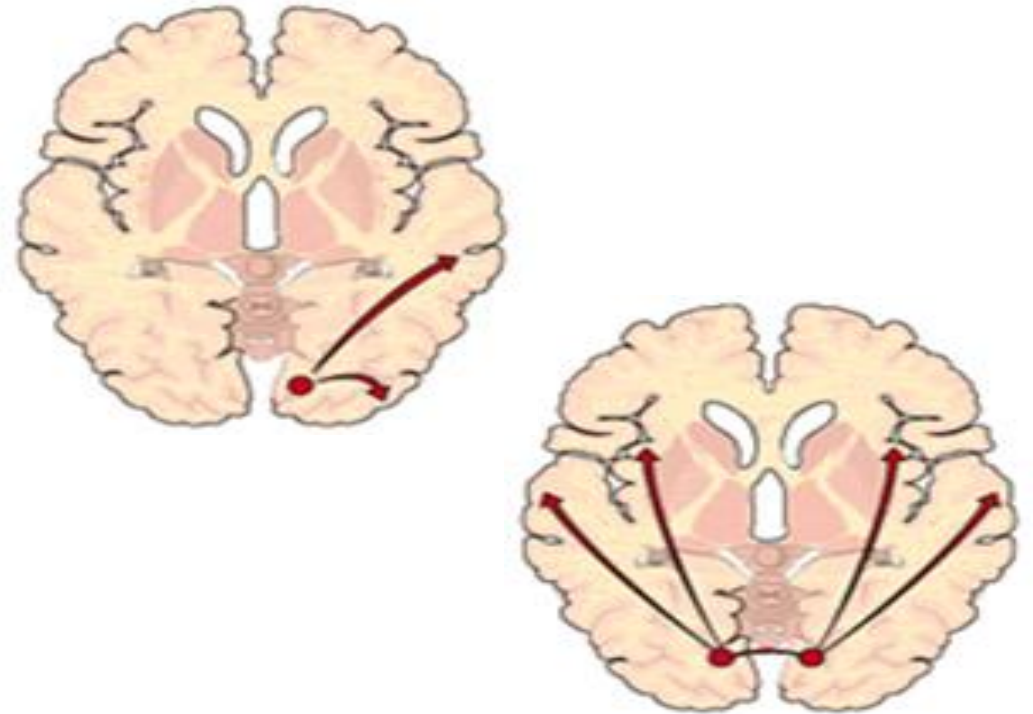




# Epilepsy Care in a School Setting

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1. Overview of Epilepsy
2. Seizure Phases and Classifications





# Epilepsy Care in a School Setting

---

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

Credit: Susan McCallum



Credit: Children's Healthcare of Atlanta

# Epilepsy Care in a School Setting

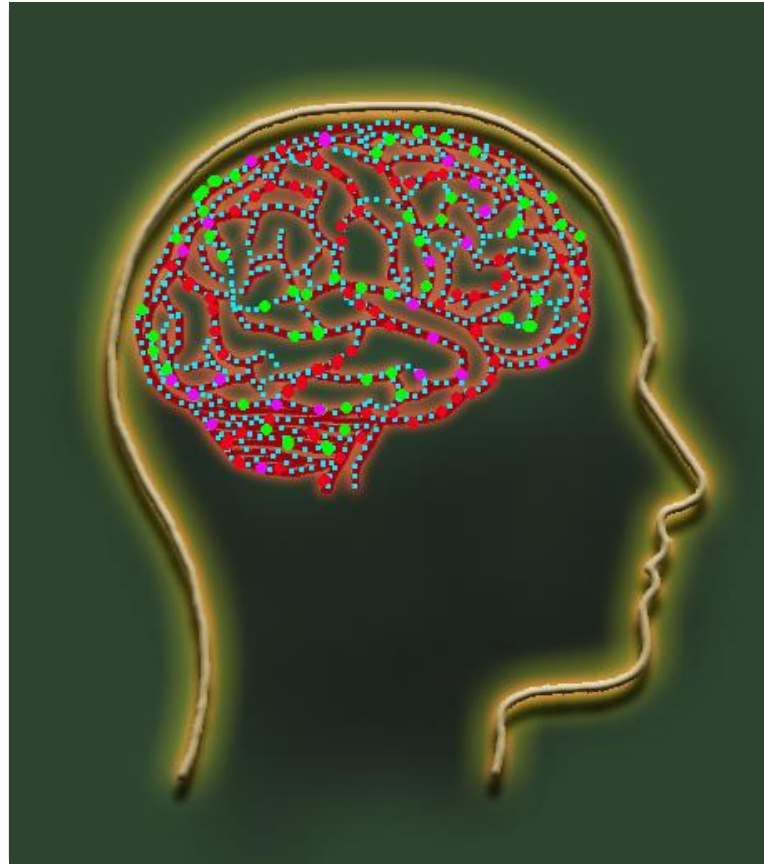
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1. Overview of Epilepsy
2. Seizure Phases and Classifications
3. Seizure Diagnostics and Treatments
4. Seizure First Aid



Credit: Deposit Photos





Credit: Martin Allison

# Epilepsy Seizure First Aid

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Children's Comprehensive Epilepsy Center

Presented by Susan McCallum, MSN, RN  
Children's Comprehensive Epilepsy Center  
404-785-3720  
[www.choa.org](http://www.choa.org)

Children's Healthcare of Atlanta







# School Health Resources

Children's works closely with the school health community throughout the state to provide them with educational materials, training and support.

<https://www.choa.org/schoolhealth>

About Us



View all School Health events 

# Video & Graphic Credits

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## Video Credits



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

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

## Photo & Graphics Credits

Martin Allison

Susan McCallum

Mayo Foundation for Medical Education and Research

Deposit Photos



Children's Healthcare of Atlanta

