Epilepsy and Updates in Rescue Medication Therapies

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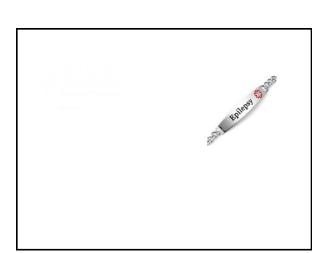


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CREDITS

Managing Students with Seizures: The Importance of School Nurses an online education program by the National Epilepsy Foundation, 11/2017

<u>Using Rescue Therapies In Epilepsy Care an</u> addendum to the online school nurses program by the National Epilepsy Foundation 11/2018

Advocating for IEPS and 504s for Students with Epilepsy an addendum to the online school nurses program by the National Epilepsy Foundation 11/2018

Rescue Therapies in Epilepsy a Webinar by the National Epilepsy Foundation, 10/7/2019

LEGAL DISCLAIMER



This presentation is an overview of some rescue therapies by the Epilepsy Foundation of Michigan and does not constitute medical advice. This module serves as supplemental education and does not take the place of a prescribing provider's orders or instructions for an individual patient.



escue Therapies in Epilepsy Care

PROGRAM GOAL



By the end of this presentation,
participants will gain a better
understanding of rescue
medication therapies for
seizures and how to incorporate
the use of these meds in
schools with seizure planning

cue Therapies in Epilepsy Care

EPILEPSY FOUNDATION

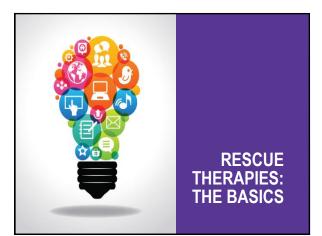
PROGRAM OBJECTIVES

By the end of this presentation, participants will:

- Know the various types of rescue therapies available in epilepsy and their proper use and administration
- Be able to determine how to incorporate rescue therapies in a seizure plan for schools to use
- Incorporate accommodations in 504/IEP that will enable non-licensed personnel and schools without school nurses to follow a parent /physician collaborated seizure plan and administer rescue medications and recovery as ordered



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WHAT ARE RESCUE THERAPIES/MEDICATIONS?



- Seizure medications intended for intermittent or "as needed" use
- Does not take the place of daily seizure medications.
- Not intended to take place of emergency medical
 care.
- Works in brain quickly can stop seizures or lessen their severity quickly
- Intended for use outside of hospital setting



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RESCUE THERAPIES FOR "AS NEEDED" USE

- To stop cluster seizures or acute repetitive seizures
- To stop seizures lasting longer than usual
- Prevent progression to established status epilepticus
- When seizures occur different from usual type/pattern
- For breakthrough seizures during high-risk times (medicine changes, illness & missed daily medicine)
- To prevent emergencies

Using Rescue Therapies in Epileosy Care



WHEN ARE RESCUE THERAPIES NEEDED? Specific instructions on when to use therapies will vary for each person and depend on type of therapy and types of seizures experienced HELP ASSISTANCE ADVICE FEILERS SPORT

HOW ARE RESCUE MEDICATION / TREATMENTS GIVEN?

- Rectal
- Intranasal
- Buccal
- Sublingual
- ***Magnet swipe for vagus nerve stimulation



WHY RESCUE MEDICATIONS IN SCHOOLS? • Prevent more s

 Prevent more serious life threatening Status epilepticus, prolonged seizures and possible even death

 Designed for administration by non-medical personnel (medical license not required to administer, teachers and school personnel can administer if trained)

Epilepsy Foundation's
 Professional Advisory Board
 agrees non-medical personnel can
 safely administer rescue
 medications



BEFORE USING A RESCUE THERAPY

Parents and School personnel must -

- Know student's typical seizure type and pattern
- · Recognize atypical seizures
- · Collaborate with health care team:
 - Need for rescue therapy
 - · Instructions and next steps
 - Need for EMS
 - Develop Seizure Action or Response Plan i.e. SAP)





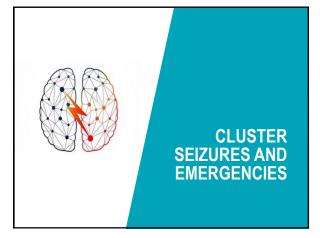
CARE AFTER USING RESCUE MEDICATION (RECOVERY)

- Can be done in schools (accommodation)
- · Maintain student's safety
- · Check airway, breathing & circulation
- · Side effects of benzodiazepines
 - Sedation, disorientation, confusion, amnesia
 - Fatigue, weakness, dizziness, unsteady walking
 - · Rare respiratory depression
- Follow Seizure Action Plan
- Call EMS (911) if indicated by student's situation or seizure action plan





,



WHAT ARE CLUSTER SEIZURES?

- Part of how epilepsy can be expressed
- Also called acute repetitive seizures, bouts of seizures



- No clear consensus on terms & definitions between people with epilepsy, families & caregivers¹
- Self-reported clusters in 29% of people in a seizure diary study defined as 3 or more seizures in 24 hours²
- Can be a precursor to status epilepticus.

₩ FC



WHAT IS STATUS EPILEPTICUS?

Convulsive

- Active part of tonic-clonic seizure lasts 5 minutes or longer
- Second seizure without recovering consciousness from first seizure.
- Repeated seizures for 30 minutes or longer



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WHAT IS STATUS EPILEPTICUS?

Nonconvulsive

- Long or repeated absence or focal seizures
- · Persistent confusion, not fully aware
- Harder to recognize as symptoms are more subtle
- May be hard to separate seizure symptoms from recovery period
- No consistent time frame on when nonconvulsive seizures are an emergency

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STATUS EPILEPTICUS

How Often Does Status Epilepticus Occur?



- Incidence is highest in children (<10 yrs) and older adults (> 60 yrs)³
- 50,000-150,000 Americans develop status epilepticus each year⁴
- This is the first seizure in 12% of people!
- Mortality from status epilepticus varies4,5
 - 3% in children
 - Up to 30% in adults

Therapies in Epilepsy Care





DRUG PROPERTIES

Properties of Ideal Drug for Rescue Therapy



- Effective against all seizure types
- · Safe at usual therapeutic doses
- · Potent in small volumes
- · Quick, easy & safe to administer
- Rapid onset of action within minutes
- · Long duration of action
- Few or no monitoring requirements

Using Rescue Therapies in Epileosy Care



RESCUE THERAPIES How Fast Do They Begin Working? Delay Time for Action Intravenous route 30-60 seconds 1-5 minutes* Intranasal route Sublingual route 3-5 minutes 10-20 minutes 5-30 minutes Ingestion 30-90 minutes Potential abortive treatment VNS EPILEPSY FOUNDATION

OPTIONS FOR RESCUE THERAPIES Diastat ® AcuDial TM (FDA approved for ages 2 and up) Intranasal midazolam (Nazilam for 12 years old and up) Intranasal diazepam (Valtoco for 6 years old and up) Buccal or Sublingual Ativan, Klonopin, Diazepam https://youtu.be/zpEqilpi9IY

EFA Video on Rescue Therapies



RECTAL DIASTAT

Advantages

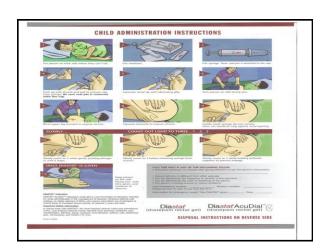
- Can be used easily and safely in conscious or unconscious adult or child
- · Is rapidly absorbed
- Most common SE sleepiness
- · respiratory depression not significant

Disadvantages

- May need someone to give it
- May be difficult to give to large person, someone in wheelchair, or to person moving during administration







INTRANASAL MEDICINES (VALTOCO AND NAYZILAM) Advantages Disadvantages

- Rich blood supply gives direct route into blood stream
- Rapid absorption
- Rates of absorption and plasma concentrations comparable:
 - IV/
 - Better than SQ and IM
- Easy to use, convenient, safe

- Special delivery apparatus
- · Consider head position
- · Possible irritation of respiratory tract
- Needs patient cooperation
- · Needs patent airway
- Volume limitations to each nares
- · Potential for drainage



Nayzilam(FDA Approved 2020)

Intranasal Midazolam (Nayzilam*)

- Indicated for acute treatment of intermittent, stereotypic episodes of frequent
 - seizure activity, such as seizure clusters, acute repetitive seizures,
 Events are distinct from a person's usual seizure pattern

 - Approved for use in people with epilepsy 12 years of age and older
- · Able to be given by non-medical people
- Each spray for one time use, 5mg/0.1ml spray
- Second spray used if seizure persists after 10 min

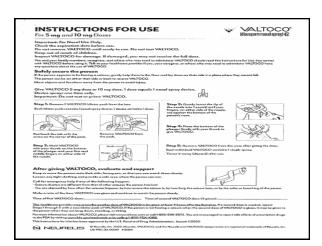
Side Effects

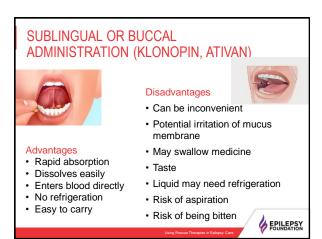
- SleepinessHeadache
- · Nasal discomfort
- Runny nose
 Throat irritati

Valtoco (FDA approved 2020) Intranasal Diazepam

- Supplied in 5mg, 7.5mg or 10mg Diazepam in 0.1ml dosage
- · prescribed to help stop periods of increased seizures or seizure clusters
- Approved for adults and children age 6 years and older.
- VALTOCO 5 mg and 10 mg doses are administered as a single spray IN into one nostril. Administration of 15 mg and 20 mg doses requires two nasal spray devices, one spray into each nostril. A second dose can be given after 4 hours
- · Available through Maxor Specialty Pharmacy only
- · Most common adverse reactions (at least 4%) were somnolence, headache, and nasal discomfort
- no more than one episode every five days and no more than five episodes per month.







SUBLINGUAL OR BUCCAL ADMINISTRATION

Consult student's SAP and prescription to confirm drug, dose, route and administration orders

• When to administer

- Avoid giving buccal or sublingual during loss of awareness
- Can be given between seizures

How to administer

- $\bullet\,$ With gloved hands, use gauze pad to dry cheek & gum
- Place tablet in pocket between cheek & gum or under tongue as directed
- Gently rub to promote absorption
- $\bullet\,$ Observe response, provide care & comfort
- Consult action plan for postictal care and when to notify parent or provider
- Call 9-1-1 if directed

Using Rescue Therapies in Epilepsy Care



VAGUS NERVE STIMULATION THERAPY (VNS)



- Approved for treatment for chronic epilepsy when medicines don't work, surgery doesn't work or not feasible
- Magnet form of intervention to abort seizure
 - · Used for any seizure type
 - · Provides on-demand stimulation
- To stop seizure: swipe magnet over generator implanted in chest, count 1-1,000-1,
- To stop stimulation: tape magnet over generator

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SEIZURE ACTION/HEALTH PLAN (SAP)



A comprehensive plan of action authorized by the parents or guardians, physicians, and staff in the event of a seizure or seizure activity. SAP's instruct

School personnel on what to do when a student has a Seizure.

- Not a stand-alone legal document
- MUST be added to an IEP or 504 plan for it to be part of the legal document

ocating for IEPs and 504s

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CREATING A SEIZURE ACTION PLAN

- Parent/guardian should complete and sign questionnaire regarding seizure history
 - Include seizure types, duration, triggers, medications and side effects, surgeries, implants (VNS), behaviors before, during, and after seizure
 - Medical team:
 - Clarify treatment of student
 - Response to seizure plan formed
 - Contact information
 - When to call for medical assistance (911)
 - Rescue medications how and when to administer

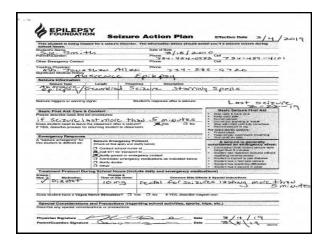
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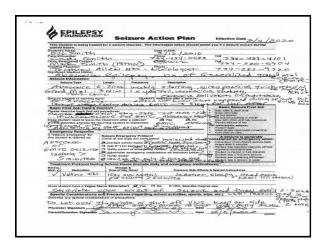
SAPS & RESCUE MEDICATIONS

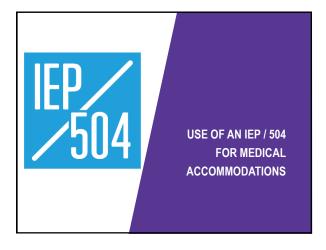
- Requires signed orders from prescribing health care provider
- Seizure Action Plan must include:
- Drug name & dose& route
- Indications for use
- When drug is to be given
- How to give drug
- Contraindications
- SAP- communication tool for physician, school nurse, teachers & staff. All staff should have access (i.e. teachers, buss drivers, aides teachers OT, PT ST etc.)
- SAPS must be updated annually.











WHAT KIND OF SUPPORT DOES THE STUDENT NEED? IEP?

- IEP or Individual Education Program is the design of a qualifying student's education program.
 - An ongoing arrangement between family and
- Every component is a team decision
- There are 13 disability areas
 - Epilepsy falls under "Other Health Impaired"
- Each qualifying area must have measurable goals
 - · Areas can be both educational and functional (which can include medical)
- Goals are written to assist student in learning and improving skills adapted to meet their needs



INDIVIDUALIZED EDUCATION PLAN

WHO DEVELOPS THE IEP?

- An IEP team is comprised of the following:
 - Student's parents
 - At least one regular education teacher (if some services occur in a regular education classroom)
 - One special education teacher
 - A person knowledgeable of student's needs (Can include district or school nurse)
 - Local Education Agency (LEA) representative of public school system (public & charter) must be present. LEA needs to be well-informed about both general & special education programs
 - Teacher and/or evaluator must share all evaluation results and ongoing data



HOW LONG DOES AN IEP LAST?



- One year but can be adjusted at any time (i.e. addendums)
- During next IEP team meeting, a new education program can be developed
- Students must be reassessed at 3year intervals or sooner if team requests
- Ongoing team communication is essential for student's development (i.e. and medical needs/condition)

Advocating for IEPS and 504s for Students with Epilepsy

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County:	-	Ho	ome Phone:		E-mail:
Parent's Name:		Re	dationship:		
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ь)	Does . have limited English proficiency?	□Yes □No
c)	Does . have blindness or visual impairment?	□Yes □No
d)	Did you consider .'s communication needs?	□Yes □No
	Is . deaf or hard of hearing?	□Yes □No
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DELEGATION ISSUES: RESCUE MEDICATIONS

- Provide complete care for students who need rescue medications:
 - If school nurse or student's parents are unavailable, schools should have plans for delegation of rescue therapies to another staff member (Michigan law Section 380.1178 public act 451)
 - If a seizure rescue medication can not be delegated to an unlicensed person, plans must address who & how the prescribed rescue medication will be administered

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DELEGATION ISSUES: RESCUE MEDICATIONS



- School nurse & administration should be aware of the applicable laws & policies of their state & school district (i.e. Michigan - REVISED SCHOOL CODE Act 451 of 1976, Sec. 380.1178 Administration of medication to pupil; liability; school, MDE Model Policy and Guidelines for Administering Medications to Pupils at School)
- Education of personnel able to give seizure rescue medications should be done (i.e. Michigan by licensed medical personnel, 4 hr. medication administration class guidelines)
- Online and in-person education are available from local EF of Michigan.

RESCUE MEDICATIONS

Access to Rescue Medication in Schools and Related Settings

- Epilepsy Foundation supports allowing trained, nonmedical personnel to administer rescue medications in schools, to ensure children living with epilepsy have:
 - Appropriate & timely access to lifesaving seizure medication
 - Access to full range of school & related experiences in least restrictive environment

Using Rescue Therapies in Epileosy Care



ADVOCACY RESOURCES



- Epilepsy Foundation:
 - Will assist with advocating for access to rescue medication in schools;
 - Has resources to support state legislation that would allow trained, non-medical personnel to administer rescue medication in schools;
 - Will support outreach to board of nursing, school boards & school
- Learn more about rescue medication advocacy & view the Foundation's position statement, recent legislation, sample letters & talking points at http://advocacy.epilepsy.com/EmergencyMeds

ue Therapies in Epilepsy Care



WHAT KIND OF SUPPORT DOES THE STUDENT NEED? 504 PLAN?

- A blueprint/plan for how child will have access to learning at school
- Provides services and changes to learning environment
 - To meet the needs of child as adequately as other students (i.e. keeping them healthy, safe and in school)



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WHAT KIND OF SUPPORT DOES THE STUDENT NEED? 504 PLAN?

- Two requirements to qualify:
 - Child has any disability, which can include many learning or attention issues (Epilepsy is a qualifying disability under the ADA)
 - Disability must interfere (when active) with child's ability to learn in a general education classroom
- Section 504 has broader definition of disability than IDEA
 - Child who does not qualify for an IEP might still be able to qualify for a 504 Plan

Advocating for IEPS and 504s for Students with Epilepsy

BUILDING A STRONG 504 PLAN

- Legal requirements for what constitutes a 504 Plan team is slightly different than an IEP team
- 504 Plan may be more appropriate for students with epilepsy who do not have impairments that significantly impede their ability to learn
- Accommodations, modifications, behavior intervention plans, seizure action plans, and related services (mandatory staff education and designation) can all be included in a 504 Plan (testing, time, requirements, etc.)

FOU

EPILEPSY FOUNDATION

WHAT ARE RELATED SERVICES?

- Supportive and developmental services that assist a child in their school setting
- Examples:
 - Speech & language therapy
 - Counseling
 - School health services (education , designation, hands on care recovery, monitoring)
 - Interpreting Services
 - Occupational/physical therapy
 - Social services
 - Mobility services

SEPILEPSY



Major Life Activity Affected: Learning						
Focus	Accommodation					
Generalized Selizarias	Student should have continuing and provision of spileppy area in the school student, and provision of spileppy area in the school student, and a student spileppy while do not be spileppy. Students with have student spileppy while do not extend the spileppy and spileppy spileppy. Students with correspond provisions about how plant for the spileppy care. This concept student spileppy care in the spileppy care in explainery care in explainery care in explainery care in the school settled to be available to the student as needed. Students as needed. Students and the spileppy care in the school settled to be explained to the student as needed. Provision or district endocation relative to status engineers in the spileppy care in the s					
Vagus Nerve Stimulator (VMS)	Emergency Magnet Procedure should be embedded in the IMP to include directions in using a VNS magnet during setures. All staff should be made wave of the VNS implant, how to respond and location of magnets. Student should be permitted to carry magnet on his/Mer person.					

☐ Katogenic Diet	Access to needed food and liquids as required during the control of the service of an inflation the profitoid of the service of an inflation the profitoid of the service of the control of the service of the control o
Communication	The nume shall communicate the diagnosts, first aid steps and procedure to agency critical staff. The numer shall be notified of seizure activity in the Parants shall be notified of seizure activity in the Parants shall be notified of seizure activity in the shoul setting staff of the should setting staff or the should setting setting the should setting setting the should setting the should setting the should setting the should set the staff of the should set the sh
Classroom Work	If student has a seture during a text, he or she will be allowed to take the tot set all another time without a seture of the student set and the seture medications affect higher adding to concentrate on a schabolevic for text that the seture of the student setup

Dispatal Accordiol. Rectal discrepans (class of drugs to which valum belongs). Distant Accordiol is an effective means of absorting a brighty section or a cluster of seturates and was designed to according to the emergency room. Emergency Status Rectal Rectal States (class of class to section). Emergency Status Rectal Rectal States (class of the States of States and Washington). Emergency States Rectal Rectal Rectal States (class of the States) and according to the effect of the emergency force. Emergency States Rectal Recta

	will be given an opportunity to make up the work. Student shall be given instruction without penalty to help him/her make up any classroom instruction missed due to epilipsely care. Student shall not be penaltied for allowness require for medical appointments and/or for linkers related to
	to his/her epilepsy.
Activity	Activity restriction and allowances should be as MD prescribes. Alterostors of physical activity may need to be accommodated of physical activity is a trigger for accommodated of physical activity is a trigger for student shall be permitted to perticipate in all school sponsored activities as managing doctor permits. Student shall be permitted to participate in all field trips with available to rained staff, without
Definitions:	
Absence seitures: Seizures (som They happen suddenly and the p the seiture is over. They may ha generalized seiture. Anti-seizure medication: Antiepi	etimes called petit mal setrures) that are usually just a few seconds long, exercise with the or after it during, and then resume it as soon as point many times in a day or in dusters during the day. Type of despite drug, Medication used to track sources. Common medications as Copylating, Oppolating, Lavietcal, Zonogran, and Chengin, aming
Absence seizures: Seizures (som They happen suddenly and the p the seizure is over. They may ha generatized seizure. Anti-seizure medication: Antispi include Dilantin, Keppra, Topam others. Atonic soizures: Also called dingo	serson will stop what he or she is doing, and then insume it as soon as pon many times in a day or in clusters during the day. The soon as legitic drug, Medication used to treat seizures. Common medications as, Depokrot, Depokron, Lamicial, Zonegran, and Clonapin, among soliures, those seizures produce a sudden loss in mucich tone. A enon will drup to the ground, fully act on occur, these selbures occur.
Absence setures: Selzures (som They happen suddenly and the pite seture is over. They may ha generalized seture. Anti-seture medication: Antisept include Dilantin, Keppra, Topam others. Atomic setures: Also called drop person's head will drop or the pi without warring. Type of general	serson will stop what he or a he is dating, and then insures it as soon as power many times in a side or in clusters dealing the date; no seek legisle ding. Medication used to treat scioures, common medications, so, Depublich, Depubliches, Lamical, Soopens, and Colosyes, among sections, these settines greatless a sudden loss in muscle tone. A discollection of the ground Tuber on occur, bette electrons occur, a person's zero and lega part hybridensisty. Contra electrons by
Absulnes existences. Seitures (seen They happen suddienty and (seen the seiture is over. They may be generalized existence. Antique Included Distriction. Antique Anti-seiture medicine. Antique to the seitures. Also called drou- dernic seitures. Also called drou- person's head will drop or the person's head will drop or the person's head will drop or the person's head will drop or the Clonic seiture. Seitures in which the missives are uncommon. Gen Complex partial seitures. Seiture	erron well stop what he or a fee is delaying, and then insurine it as soon as a person sharp time in a select or in clusters dealing the delay read of the person many time in a select or inclusion delaying the delay read of the person of th

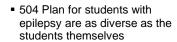
304 INFORMATION FOR SEIZORE DISORDERS

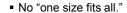
vague nerve stimulation (visit): The Vist is stimular to a paccimator, but it stimulatios the vague nerve in the more, breted of the heart. The VISE is usually implanted in the upper left then for under the arm; it stimulates, on an ongoing basis, the vague nerve, which then ontoid electrical impulses to the pairs of the brain that effect setzimus. If a genom has a selaive arm or begins to have a selaive, the VMS can be swipped with a magnet to send additional electrical current to abort or minimize the selazure.

figilingsy Foundation. (n.d.). MODEL SECTION 504 PLAN FOR A STUDENT WITH EPILEPSY. Retrieved from https://www.n.undl.org/contents/distinfu/section/Decuments/Sample_Accommodations.pdf

Epirepsy Foundation, (n. 6.), Developing My Selaure Plan 103 | Epilopsy Foundation, Ratificed from http://www.epilopsy.com/get-help/teis.com/

REMEMBER







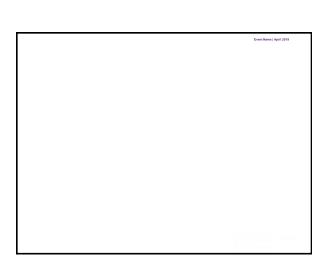
- Areas of learning such as memory, concentration, and behavior often times impacted by epilepsy but often overlooked or not addressed by a 504 plan
- Epilepsy is not simply seizure activity but a culmination of factors influencing student's life.

Advocating for IEPS and 504s for Students with Epiler



ONLINE RESOURCES
Epilepsy resources: www.epilepsy.com
Advocacy through IEPs & 504s: http://wrightslaw.com/
IDEA: http://idea.ed.gov/
Section 504 of the Rehabilitation Act: http://ww2.ed.gov/about/offices/list/ocr/504faq.html
ADA: https://www.ada.gov
Advocating for EPs and SOA





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Michigan Alliance for Families is an IDEA Grant Funded Initiative of the Michigan Department of Education, Office of Special Education, and Michigan's federal Parent-Training and Information Center (PTIC) funded by U.S. Department of Education, Office of Special Education Programs (OSEP).

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