

CONNECTICUT STATE DEPARTMENT OF EDUCATION

Antiepileptic Medication Administration
Training Program
for Connecticut's Unlicensed School Personnel

Developed by:
The Connecticut State Department of Education in consultation with the Connecticut School Nurse Advisory Council and the Association of School Nurses of Connecticut

Permission granted to the Connecticut State Department of Education by the Epilepsy Foundation for use of its epilepsy training information used in this document.



CONNECTICUT STATE DEPARTMENT OF EDUCATION

Objectives

This training program includes:

- (A) an overview of childhood epilepsy and types of seizure disorders;
- (B) sample individual student's emergency seizure action plan;
- (C) recognition of seizure activity;
- (D) emergency management procedures for seizure activity, including administration techniques for emergency seizure medication;



Objectives, cont'd	
 (E) when to activate emergency medical services and post-seizure procedures and follow-up; (F) reporting procedures after a student has received emergency seizure medication; and (G) other relevant issues or topics related to emergency interventions for students who experience seizures. 	
4.	
CSDE CONNECTICUT STATE DEPARTMENT OF EDUCATION	
Public Act 15-215	
 A qualified school employee may administer antiepileptic medication, including by rectal syringe, to a specific student with a medically diagnosed epileptic condition that requires 	
prompt treatment in accordance with the student's individual seizure action plan.	
 Limited to situations when the school nurse is absent or unavailable. The school nurse must provide general supervision to the 	
qualified school employee.	
s 20°.	
CSDE CONNECTICUT STATE DEPARTMENT OF EDUCATION	
Qualified School Employee	
Means: • Principal;	
Teacher;Licensed athletic trainer;	
 Licensed physical or occupational therapist employed by a school district; Coach; or 	
School paraprofessional.	
CSDE CONNECTICUT STATE DEPARTMENT OF EDUCATION	

Qualified School Employee:	
Responsibilities	
Annually completes the training program;	
Receives monthly reviews by the school nurse; andVoluntarily agrees to serve as a qualified school	
employee.	
CODE CONNECTICUT STATE DEPARTMENT OF EDUCATION	
ACSUE.	
School Nurse: Responsibilities	
 Must obtain student's individual seizure action plan; Develop emergency care plan per school district 	
procedure;	
Select qualified school employee;Facilitate training for qualified school employees;	
 Confirm completion of training and competency of qualified school employee to administer antiepileptic medication; 	
and	
 Provide general supervision to qualified school employees (including monthly reviews). 	
the.	
CSDE CONNECTICUT STATE DEPARTMENT OF EDUCATION	
What is a seizure?	
A brief, excessive discharge of electrical activity in the brain	
that alters one or more of the following: • Movement	
SensationBehavior	
Awareness*	
*The Epileppy Foundation	
CSDE CONNECTICUT STATE DEPARTMENT OF EDUCATION	

What is Epilepsy?	
 Epilepsy is a chronic neurological disorder characterized by a tendency to have recurrent seizures. 	
Epilepsy is also known as a "seizure disorder."	
CSDE CONNECTICUT STATE DEPARTMENT OF EDUCATION	
Did you know that	
 Most seizures are not medical emergencies. Students may <u>not</u> be aware they are having a seizure and may <u>not</u> remember what happened. 	
Epilepsy is <u>not</u> contagious.Epilepsy is <u>not</u> a form of mental illness.	
 Students almost never die or have brain damage during a seizure. A student <u>cannot</u> swallow his or her tongue during a 	
seizure.*	
*The Epilepsy Foundation CSDE CONNECTICUT STATE DEPARTMENT OF EDUCATION	
Common causes of Epilepsy	
Common identifiable causes include:	
 Poisoning (lead) Infections of the brain (such as meningitis, measles, encephalitis); 	
Brain injury at birth; andAbnormal brain development.	
Note: The cause is unknown for 70% of people with epilepsy.*	
The Epilopsy Foundation CONNECTICUT STATE DEPARTMENT OF EDUCATION	

Seizure Types	
Generalized Seizures:	
 Involve the whole brain; Common types include absence and tonic-clonic; and Symptoms may include convulsions, staring, muscle spasms and falls.* 	
spasms and rails.	
*The Epilepsy Foundation CONNECTICUT STATE DEPARTMENT OF EDUCATION	
Saizura Tunas, contid	
Seizure Types, cont'd	
Partial Seizures:	
 Involve only part of the brain; Common types include simple partial and complex partial; and 	
Symptoms relate to the part of the brain affected.*	
*The Epilepsy Foundation CONNECTICUT STATE DEPARTMENT OF EDUCATION	
Seizure Types, cont'd	
Absence Seizures	
Common signs and symptoms:	
Pause in activity with blank stare;Brief lapse of awareness;	
Possible chewing or blinking motion;Usually lasts 1 to 10 seconds;	
May occur many times a day; andMay be confused with:	
Daydreaming Lack of attention	
Attention Deficit Disorder (ADD).*	
*The Epileppy Foundation	
CSDE CONNECTICUT STATE DEPARTMENT OF EDUCATION	

Seizure Types, cont'd	
Absence Seizures, cont'd	
 No first aid is required! Observation and safety considerations should be included in student's seizure action plan.* 	
 Report incident to the school nurse according to school/district policy or procedure. 	
*The Epilepsy Foundation CONNECTICUT STATE DEPARTMENT OF EDUCATION	
Seizure Types, cont'd	
Simple Partial Seizures	
 Full awareness maintained; Rhythmic movements (isolated twitching of arms, face, legs); 	
 Sensory symptoms (tingling, weakness, sounds, smells, tastes, feeling of upset stomach, visual distortions); Psychic symptoms (déjà vu, hallucinations, feeling of fear 	
or anxiety, or a feeling they can't explain); Usually lasts less than one minute; andMay be confused with acting out, mystical experience,	
psychosomatic illness.	
CSDE CONNECTICUT STATE DEPARTMENT OF EDUCATION	
Seizure Types, cont'd	
Complex Partial Seizures	
Awareness impaired/inability to respond;Often begins with blank dazed stare;	
 AUTOMATISMS (repetitive purposeless movements); 	
 Clumsy or disoriented movements, aimless walking, picking things up, nonsensical speech or lip smacking; 	
Often lasts 1 to 3 minutes;Often followed by tiredness, headache or nausea;	
 May become combative if restrained; and 	
 May be confused with: Drunkenness or drug abuse Aggressive behavior.* 	
*The Epilepsy Foundation CONNECTICUT STATE DEPARTMENT OF EDUCATION	-

First Aid — Complex Partial S	eizure	
 Stay calm, reassure others; Track time; Check for medical I.D.; Provide privacy for the student; Do not restrain; Gently direct away from hazards; Don't expect student to obey verbal instruction Stay with student until fully alert and aware; If seizure lasts 5 minutes beyond what is rour for that student or another seizure begins bein full consciousness is achieved, follow emergen protocol.* 	ine ore	
*The Epilepsy Foundation	ARTMENT OF EDUCATION	
Seizure Types, cont'd		
Generalized Tonic-Clonic Seizures		
Common signs and symptoms: A sudden, hoarse cry; Loss of consciousness; A fall; Convulsions (stiffening of arms and legs follow rhythmic jerking); Shallow breathing and drooling may occur; Possible loss of bowel or bladder control; Occasionally skin, nails, lips may turn blue; Generally lasts 1 to 3 minutes; and Usually followed by confusion, headache, tires soreness, speech difficulty.*	_	
*The Epilepsy Foundation CSDE CONNECTICUT STATE DE	ARTMENT OF EDUCATION	
First Aid — Generalized Tonic-Clonic S Stay calm. Time the duration of the seizure activity (startime); Check for epilepsy or seizure disorder I.D. (b necklace); Provide privacy for the student; Protect student from possible hazards (chairs sharp objects, etc.); Turn student on his or her side; Cushion head; After the seizure, remain with the student unt of surroundings is fully regained; Provide emotional support; and Document seizure activity.*	and stop racelet, , tables,	
*The Epilepsy Foundation CONNECTICUT STATE DE	ARTMENT OF EDUCATION	

Status Epilepticus	
 Continuous state of seizure activity, or prolonged seizures that occur in a series; Medical emergency; and 	
Most common in the very young and very old.*	
*The Epileppy Foundation CONNECTICUT STATE DEPARTMENT OF EDUCATION	
DO NOT!!	
 DO NOT put anything in the student's mouth during a seizure DO NOT hold down or restrain 	
 DO NOT attempt to give oral medications, food or drink during a seizure.* 	
*The Epilepsy Foundation CONNECTICUT STATE DEPARTMENT OF EDUCATION	
Seizure Triggers or Precipitants	
 Flashing lights and hyperventilation can trigger seizures in some students with epilepsy. 	
 Factors that might increase the likelihood of a seizure in students with epilepsy include: Missed or late medication (#1 reason) 	
Stress/anxiety Lack of sleep/fatigue Hormonal changes Illness	
 Alcohol or drug use Drug interactions (from prescribed or over the counter medicines) Overheating/overexertion 	
Poor diet/missed meals.*	
*The Epilepsy Foundation CSDE CONNECTICUT STATE DEPARTMENT OF EDUCATION	

Seizure Triggers or Precipitants	
Factors that might increase the likelihood of a seizure in students with epilepsy include:	
 Missed or late medication (#1 reason) Stress/anxiety Lack of sleep/fatigue Hormonal changes Alcohol or drug use Drug interactions (from prescribed or over the counter medicines) Overheating/overexertion Poor diet/missed meals 	
CONNECTICUT STATE DEPARTMENT OF EDUCATION	
 When is a Seizure an Emergency? First time seizure (no medical ID and no known history of seizures); Convulsive seizure lasting more than 5 minutes, unless otherwise specified on the student's seizure action plan; Repeated seizures without regaining consciousness; More seizures than usual or change in type; Student is injured, has diabetes or is pregnant; Seizure occurs in water; and 	
Normal breathing does not resume. Important note: Follow seizure emergency definition and protocol as defined by the healthcare provider in the seizure action plan.*	
*The Epilepsy Foundation CSDE CONNECTICUT STATE DEPARTMENT OF EDUCATION	
Important Considerations • Students may lose control of their bowel and bladder	
 Students may lose control of their bowel and bladder during a seizure. They may also vomit. 	
 Safe and supportive considerations: Provide privacy; Maintain standard precautions; and If student experiences respiratory distress, provide first aid and perform CPR (cardiopulmonary resuscitation), if indicated. 	

Epilepsy Seizure Types and Symptoms

Generalized Seizures (Produced by the entire brain)	Symptoms
"Grand Mal" or Generalized tonic- clonic	Unconsciousness, convulsions, muscle rigidity
2. Absence	Brief loss of consciousness
3. Myoclonic	Sporadic (isolated), jerking movements
4. Clonic	Repetitive, jerking movements
5. Tonic	Muscle stiffness, rigidity
6. Atonic	Loss of muscle tone*



*http://www.webmd.com/epilepsy/guide/types-of-seizures-their-symptoms
CONNECTICUT STATE DEPARTMENT OF EDUCATION

Epilepsy Seizure Types and Symptoms, cont'd.

Partial Seizures (Produced by a small area of the brain)	Symptoms	
Simple(awareness is retained) a. Simple Motor b. Simple Sensory c. Simple Psychological	Jerking, muscle rigidity, spasms, head-turning Unusual sensations affecting either the vision, hearing, smell taste, or touch Memory or emotional disturbances	
2. Complex (Impairment of awareness)	Automatisms such as lip smacking, chewing, fidgeting, walking and other repetitive, involuntary but coordinated movements.	
3. Partial seizure with secondary generalization	Symptoms that are initially associated with a preservation of consciousness that then evolves into a loss of consciousness and convulsions.	



*http://www.webmd.com/epilepsy/guide/types-of-seizures-their-symptom

CONNECTICUT STATE DEPARTMENT OF EDUCATION

The Impact on Learning and Behavior

- Seizures may cause short-term memory problems;
- After a seizure, coursework may have to be re-taught;
- Seizure activity, without obvious physical symptoms, can still affect learning;
- Medications may cause drowsiness, inattention, concentration difficulties and behavior changes; and
- · School difficulties are not always epilepsy-related.*



*The Epilepsy Foundation
CONNECTICUT STATE DEPARTMENT OF EDUCATION

Tips for Supporting Students with Epilepsy	
 Stay calm during seizure episodes; Be supportive; Provide privacy during and after a seizure episode; 	
 Have a copy of the student's seizure action plan and emergency care plan; 	
 Know student's medications and their possible side effects; and Encourage positive peer interaction.* 	
Encourage positive peer interaction.	
*The Epilepsy Foundation CONNECTICUT STATE DEPARTMENT OF EDUCATION	
Medical Management of Seizures	
della.	
CSDE CONNECTICUT STATE DEPARTMENT OF EDUCATION	
Management of Seizures	
Medication: Oral	
IntranasalRectalIntramuscular	
Intravenous Vagus nerve stimulation:	
 an electrical device is placed, or implanted, under the skin on the upper chest to send signals to a large nerve 	
in the neck. Ketogenic diet: a high fat, low carbohydrate diet with limited calories.	
 a high fat, low carbohydrate diet with limited calories. Surgery Other 	
CSDE CONNECTICUT STATE DEPARTMENT OF EDUCATION	

Treatment Rationale	
Type of treatment depends on:	
Frequency of seizuresSeverity of seizures	
Age Overall health	
Medical history	
• Other*	
http://www.webmd.com/epilepsy/guide/freating-epilepsy	
CSDE CONNECTICUT STATE DEPARTMENT OF EDUCATION	
Madiantan Administration	
Medication Administration	
School nurses and school medical advisors may provide training in medication administration to school staff,	
according to the Regulations of State Agencies - Administration of Medications by School Personnel and	
Administration of Medication During Before- and After-	
School Programs and School Readiness Programs.	
This includes medications that are:	
1. Oral 2. Topical 3. Inhalant 4. Intranasal	
5. Rectal 6. Intramuscular	
CSDE CONNECTICUT STATE DEPARTMENT OF EDUCATION	
Medication Administration	
The following applies to all medication administration in this	
training:	
 Follow the manufacturer's instructions for all medications: 	
 Adhere to standard precautions; Obtain a provider's order and parent's authorization prior 	
to administration of all medications and treatments for	
seizure disorders; andAbide by you local district policy and procedures for	
medication administration and emergency responses.	
CSDE CONNECTICUT STATE DEPARTMENT OF EDUCATION	

Principles of Safe Administration of Medication Administration	
 Safe handling and storage of medications; Documentation; Specific information related to each student's medication; 	
 Student's medication plan; Name and generic name of the medication (including, indications for medication, dosage, routes, time and frequency of administration, therapeutic effects of the medication, potential side effects, overdose or missed dose 	
of the medication); and • When to implement emergency interventions.	
CONNECTICUT STATE DEPARTMENT OF EDUCATION	
Recommendation	
CPR; andFirst-aid training	
(Note: CPR and first aid training are not mandated in Public Act 15-215)	
CSDE CONNECTICUT STATE DEPARTMENT OF EDUCATION	
Emergency Medication: Rectal	
Requires written authorization of a student's parent or guardian, and the written order of a physician licensed	
 under chapter 370 for the purposes of this Public Act; Requires calibration by pharmacist (pharmacist will lock in place the correct dosage on the syringe); and 	
Used in acute or emergency situations to stop a seizure that will not stop on its own.*	
and the rice of the office	
*The Epilepsy Foundation CONNECTICUT STATE DEPARTMENT OF EDUCATION	

Emergency Rectal Antiepileptic Medication: Example Diastat

- Diazepam Rectal Gel is a controlled drug substance and should be administered no more frequently than every five days and no more than five times a month.
- Diazepam rectal gel causes central nervous system (CNS) depression.
- Patients need to be advised against operating machinery, driving a motor vehicle, or riding a bike until they no longer feel the effects of the medication.
- Diazepam should not be used with alcohol or other CNS products that cause respiratory or CNS depressant effects.
- Diazepam rectal gel is not recommended for use in children under 6 months of age.*



*www.diastat.com

CONNECTICUT STATE DEPARTMENT OF EDUCATION

Emergency Rectal Antiepileptic Medication (see Diastat AcuDial Handouts)





*www.diastat.com

CONNECTICUT STATE DEPARTMENT OF EDUCATION

Inspecting Diastat AcuDial™ (See Handout)

- Step 1: Holding syringe in one hand with large end of oval pointing up and down.
 Place index finger in contact with cap to apply counter force when cap is opened.
- Step 2: Using the opposite hand grasp the cap firmly with your index finger, applying pressure to the seal pin to hold it in place.
- Step 3: Apply downward force with your thumb to create an opening 2/8" to 3/8" to view base of syringe tip and inspect for crack. Adjust angle to give best view of syringe tip.
- Step 4: While maintaining pressure on the seal pin, apply an upward force to close the cap. Rotate the syringe 180 degrees and repeat steps 3 and 4.*





*www.diastat.com

Emergency Rectal Antiepileptic Medication	
(see Diastat AcuDial Handouts)	
CHILD ARMINISTATION INSTRUCTIONS	
The state of the s	
*** www.distat.com **CSDE*** CONNECTICUT STATE DEPARTMENT OF EDUCATION	
Emergency Medication: Intranasal	
Intranasal medication: • Follow the manufacturer's instructions for the medication; provider's order for proper administration; and your district's policy and procedures.	
General Information:	
 Prior to using the intranasal route of administration, inspect nostrils for significant amounts of blood or mucous discharge and remove via suctioning for proper absorption. 	
 Deliver half of the medication dose up each nostril. Do not use more than 1 ml of medication per nostril. If a higher volume is required, apply it in two separate doses allowing a few minutes for the initial amount to absorb. 	
Be aware that there is approximately 0.1 ml of dead space in the mucosal atomization device (MAD). It is important to make allowances for this dead space when calculating the volume to be	
administered.* "Henry County Health Center CONNECTICUT STATE DEPARTMENT OF EDUCATION	
and the state of the	
Medication: Intranasal	
General Procedure:	
 Using a 1 ml or 3 ml syringe and needle, draw the appropriate amount of medication into the syringe. Remove the needle and place the mucosal atomization 	
device (MAD) tip onto the syringe. The MAD is a luer lock device and twists into place.	
 Use your free hand to hold the crown of the student's head stable. Place the tip of the MAD snugly against the nostril aiming slightly up and outward 	
(toward the top of the ipsilateral ear).	

*Henry County Health Center.
CONNECTICUT STATE DEPARTMENT OF EDUCATION

Medication: Intranasal General Procedure: · Briskly compress the syringe plunger and deliver approximately half of the medication. · Move the device over to the opposite nostril and administer the remainder of the medication as before. • If an amount greater than 1 ml per nostril is needed, wait 2-3 minutes and administer the remaining medication. *Henry County Health Center. CONNECTICUT STATE DEPARTMENT OF EDUCATION Follow-up and **Reporting Procedures** CONNECTICUT STATE DEPARTMENT OF EDUCATION Follow-up and reporting procedures · Emergency medical care (911) must be activated immediately if administration of Rectal Diastat occurs. · Follow-up diagnosis and care by medical professionals is important. · Emergency administration of rectal anti-seizure medication must be reported immediately or as soon as possible to the school nurse or school nurse supervisor and the student's parent or guardian.

Follow-up and reporting procedures,	
cont'd.	
 Follow your school district's policy and procedures for documentation and reporting. 	
Documentation must be:	
 completed and maintained for individual students on forms provided by the school district; 	
 submitted to the school nurse at the earliest possible time but not later than the next school day; 	
 completed for every student who receives rectal antiseizure medication. 	
. A Section 1	
CSDE CONNECTICUT STATE DEPARTMENT OF EDUCATION	
Monitor Effectiveness of Training	
Ensure periodic assessments of the effectiveness of the qualified school employee's competency to administer	
antiepileptic medication: – Monthly reviews by the school nurse; and	
Annual training facilitated by the school nurse or school	
medical advisor.	
1.3 ⁸	
CSDF CONNECTICUT STATE DEPARTMENT OF EDUCATION	
ACSDE CONNECTED STREET OF EDUCATION	
Monitoring Effectiveness of School District	
Plan and Procedures	
Ensure periodic assessments of the effectiveness of the	
school district plan and procedure. Assessments should occur:	
at least annually with the school district team; after each emergency event involving the administration.	
 after each emergency event involving the administration of medication to determine the effectiveness of the 	
process, why the incident occurred, what worked and did not work in the district plan and procedures; and	
include medically accurate, research-based practices in	
the annual review of the plan and procedures.	

Handling, Storage and Disposal	
 Handling, storage and disposal of antiepileptic and controlled drugs shall be in accordance with your school district's policy and procedures. 	
Diastat is a controlled drug.	
CSDECONNECTICUT STATE DEPARTMENT OF EDUCATION	
Privacy and Confidentiality	
When determining whether personally identifiable information from student health records maintained by the educational agency or institution may be disclosed, school	
officials at institutions subject to FERPA should refer to FERPA and its requirements. • Family Educational Rights and Privacy Act (FERPA)	
, and	
CSDE CONNECTICUT STATE DEPARTMENT OF EDUCATION	
Applicable Laws	
 Public Act 15-215 An Act Concerning Various Revisions and Additions to the Education Statutes. https://www.cga.ct.gov/2015/act/pa/pdf/2015PA-00215- 	
R00HB-07023-PA.pdf	
 State of Connecticut Regulations - Administration of Medications by School Personnel and Administration of Medication During Before- and After-School Programs and 	
School Readiness Programs http://www.sde.ct.gov/sde/lib/sde/PDF/deps/student/health/ Medication_Administration_Regs.pdf	
- Touristin Tourismontation (Copper	
CSDE. CONNECTICUT STATE DEPARTMENT OF EDUCATION	

Applicable Laws	
OSHA: Standard Precautions (Occupational Safety and Health Administration) https://www.osha.gov/SLTC/etools/hospital/hazards/univpre	
FERPA and HIPAA (U.S. Department of Health and Human Services)	
http://www.hhs.gov/ocr/privacy/hipaa/faq/ferpa_and_hipaa/ • State of Connecticut Regulations - Administration of	
Medications by School Personnel and Administration of Medication During Before- and After-School Programs and School Readiness Programs http://www.sde.ct.gov/sde/lib/sde/PDF/deps/student/health/	
Medication Administration Regs.pdf	
CSDECONNECTICUT STATE DEPARTMENT OF EDUCATION	
Training Handouts	
Diastat Child Administration Instructions	
 Diastat Inspection Instructions Sample Individual Student's Emergency Seizure Action Plan* 	
*The Epilepsy Foundation CONECTICUT STATE DEPARTMENT OF EDUCATION	
Online Resources: Diastat Administration	
 Diastat AcuDial http://www.diastat.com/how-to-administer Diastat Administration https://www.youtube.com/watch?v=R6gVnyi34_g 	
46.	

_	_						
R		_			_	_	_
ĸ	ΩТ	\mathbf{a}	ro	n	r	_	c

· Centers for Disease Control and Prevention. Standard

http://www.cdc.gov/HAI/settings/outpatient/basic-infectioncontrol-prevention-plan-2011/fundamental-of-infectionprevention.html

Diastat AcuDial http://www.diastat.com

- Epilepsy Foundation Information and Referral www.epilepsyfoundation.org
 WebMD http://www.webmd.com
 Henry County Health Center.
- http://www.hchc.org/page.aspx?id=1308

