

Not for Distribution

Administer Midazolam for seizure management (buccal, intranasal, IM):

List of Comparisons Contained Below:

- 1. Buccal Midazolam Compared to IV Diazepam
- 2. Buccal Midazolam Compared to Rectal Diazepam
- 3. Intranasal Midazolam Compared to Rectal Diazepam
- 4. Intramuscular Midazolam Compared to IV Diazepam
- 5. Intramuscular Midazolam Compared to Rectal Diazepam
- 6. Intramuscular Midazolam Compared to Intranasal Midazolam
- 7. Intramuscular Midazolam Comapared to Buccal Midazolam
- 8. Intranasal Midazolam Comapred to Buccal Midazolam

1. Buccal Midazolam Compared to IV Diazepam:

PICO Question:

(Efficacy)

In patients < 18 years of age, with or without a prior a prior history of epilepsy, with an acute tonic-clonic seizure (including those in status epilepticus), does buccal midazolam lead to seizure cessation (secondary outcomes: time to cessation, recurrence in 1 hour) equivalently compared to IV diazepam in randomized controlled trials or quasi-randomized trials performed in the prehospital (preferred) or emergency department

(Safety)

In patients < 18 years of age, with or without a prior a prior history of epilepsy, with an acute tonic-clonic seizure (including those in status epilepticus), does buccal midazolam have equivalent likelihood of respiratory arrest (secondary outcomes: any respiratory depression, other severe events) compared to IV diazepam in randomized controlled trials or quasi-randomized trials (or observational or case-control studies) in the prehospital (preferred) or emergency department

GRADE:

Strength of recommendation: weak;

Level of evidence: weak

Evidence:

Limited data suggests that buccal Midazolam at 0.2 mg/kg may be slightly less effective than intravenous diazepam at 0.3 mg/kg for the cessation of seizures in children who are in the emergency department setting. Very limited data suggests that buccal Midazolam is as safe as intravenous diazepam for the treatment of children with seizures who are in the ED setting. However, data is lacking for the pre-hospital setting

Values and preferences were prioritized in order of

- seizure cessation.
- time to seizure cessation,
- respiratory arrest,
- acceptability by prehospital personnel and parents
- ease of use.

See the tables below containing Outcomes A-D for additional information.

			Quality asses	sment				Summ	ary of find	ings		<u> </u>
			Quality asses) SINCIL			No of p	atients	E	ffect		P
No of studies	Design	Limitations	Inconsistency	Indirectness	Imprecision	Other consideratio ns	Intervention	Control	Relative (95% CI)	Absolute	Quality	ort a n o e
Outcome A	A - Seizur	e cessation (v	vithin 5 minutes)									
1		Serious(-1)		Yes (-1)	Yes(-1)						GRADE	Г
Talukdar 2008		Serious (-1)		Yes (-1) ED based	Yes (-1)		51/60 (85%)	56/60 (93.3%)		8.3%	WEAK	
							GTC only 88.9%	GTC only 90.2%		1.3%	LOE - weak	
Outcome E	3 – Time to	o seizure cess	sation (from arriv	/al in ED)								
1											GRADE Weak	
Talukdar 2008		Serious (-1)		Yes (-1) ED based	Yes (-1)		2.4 min	3.0 min		0.6 min	LOE-weak	Г
Outcome C	– Respirato	ory arrest										
1											GRADE Very weak	
Talukdar 2008		Serious (-1)		Yes (-1) ED based	Yes (-1)		0/60 - unclear	0/60 - unclear			LOE - weak	П
	- Respirat	ory depression										
1 Talukdar 2008		Serious (-1)		Yes (-1) ED based	Yes (-1)		0/60 - undear	0/60 - unclear			GRADE Very Weak LOE - weak	

LOE= Level of Evidence

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2. Buccal Midazolam Compared to Rectal Diazepam:

PICO Question:

(Efficacy)

In patients < 18 years of age, with or without a prior a prior history of epilepsy, with an acute tonic-clonic seizure (including those in status epilepticus), does buccal midazolam lead to seizure cessation (secondary outcomes: time to cessation, recurrence in 1 hour) more frequently compared to rectal diazepam in randomized controlled trials or quasi-randomized trials performed in the prehospital (preferred) setting or emergency department.

(Safety)

In patients < 18 years of age, with or without a prior a prior history of epilepsy, with an acute tonic-clonic seizure (including those in status epilepticus), does buccal midazolam have equivalent likelihood of respiratory arrest (secondary outcomes: any respiratory depression, other severe events) compared to rectal diazepam in randomized controlled trials or quasi-randomized trials (or observational or case-control studies) in the prehospital setting (preferred) or emergency department.

GRADE.

Strength of recommendation: strong; Level of evidence: moderate

Evidence:

Literature suggests that buccal Midazolam is more effective than rectal diazepam for the cessation of seizures in children who are in the emergency department setting. Limited data suggests that buccal Midazolam is as safe as rectal diazepam for children with seizures in the emergency department setting. However, data is lacking for the prehospital setting

Values and preferences were prioritized in order of seizure cessation, time to seizure cessation, respiratory arrest, acceptability by prehospital personnel and parents and ease of use. See the tables below containing Outcomes A-E for additional information.

			Quality asse	eement.				Sumi	mary of fin	dings	!
			Quality asse	ssment			No of p	atients	E	ffect	
No of						, Other	Interventio		Relative		Quality 1
studies	Design	Limitations	Inconsistency	Indirectness	Imprecision	considerations	Buccal	" Control	(95% CI)	Absolute	equality (
Outcome A	A - Seizur	e cessation (v	within 10 minutes	5)							
3	RCTs	Serious (-1)	No problems (for 2 of higher quality)	(-1)	No (qualitative combining)	Strong Association (+1)					GRADE- MOD
MacIntyre (2005)	RCT	Serious (-1)		(-1) not prehosp, long sz prior to ED	Not really (even at low end of CI, clear advantage)		109 92 (only 1 st episode	110 85 (only 1*t episode)	Adj OR 4.1 (2.2- 7.6) favoring buccal	24% (11,37) 18%(4,33)	LOE Mod
Mpimbaza (2008)	RCT	No (not seemingly serious)		(-1) not prehosp, long sz prior, majority with malaria	Not really		165	185	RR 1.42 (1.08- 1.90) favors buccal	4.0%	LOE Strong
							49 (no malaria)	59 (no malaria)	(1.26, 3.54)	29.4%	
Baysun (2005)	RCT	Very serious (-2)		(-1) not prehosp, likely long sz prior to ED	Yes		23	20		-7% favors rectal	LOE Weak

LOE= Level of Evidence

												_
		0	uality assess	mont				Summary	of f	indings		
		G	danty assess	ment			No of	patients		Effect		m p
No of studies	Design	Limitation 8	Inconsistency	Indirectness	Imprecision	Oth er con sld erat ion 8	Intervention	Control	Re I at I ve	Absolute	Quality	r t a n c
Outcome B	– Time to se	eizure cessati	ion									
3	RCTs	Serious (-1)	(-1) 2 higher quality RCTs differ	(-1)	Yes (qualitative combining)						GRADE - LOW	
MacIntyre (2005)	RCT	Serious (-1)		(-1) not prehosp, long sz prior to ED	Yes		109 8min (5-20) 92 (only 1 st episode) 10 min	110 15min(5-31) 85(only 1 st episode) 15 min		7 min favors buccal 5 min	LOE Mod	
Mpimbaza (2008)	RCT	No		(-1) not prehosp, long sz prior, majority with malaria	Yes		114 4.35 min (of those who stopped in <10 min) – median	125 4.75 min (of those who stopped in <10 min) – median		-0.4 min favoring rectal (but only if stopped w/in 10 min)	LOE Strong	
Baysun (2005)	RCT	Very serious (-2)		(-1) not prehosp	Yes		18 (of those who stopped in <10 min	17 (of those who stopped in <10 min		1.4% favoring buccal (diff in those stopping in <5 min)	LOE Weak	

LOE= Level of Evidence

								Summary of f	ind			
			Quality a	ssessment			No of p			Effect		m p
No of studies	Desig n	Limitations	Inconsisten cy	Indirectness	Imprecision	Other considerations	Intervention	Control	R e I a t I v	Absolute	Quality	ort ance
Outcome C -	Seizure re	currence within	1 hour									
2	RCT	Serious (-1)	No problem	(-1)	No (qualitative combining)	Strong Association (+1)					GRADE- MOD	
MacIntyre (2005)	RCT	Serious (-1)		(-1) not prehosp, long sz prior to ED	Yes		109 14% 92 (only 1st episode) 13%	110 33% 85 (only 1st episode) 34%		19% (4,36) favors buccal 22% (4, 40)	LOE Mod	
Mpimbaza (2008)	RCT	No		(-1) not prehosp, long sz prior, majority with malaria	Yes		114 (of those who stopped in <10 min) – median	125 (of those who stopped in <10 min) – median		9.5% (favors buccal	LOE Strong	

LOE= Level of Evidence

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		Oue	lity access	mant				Summary of	of findings			I m
		Qua	lity assess	nent			No of pa	ntients	Ef	fect		p
No of studies	Desig n	Limitations	Inconsisten cy	Indirectness	impre cision	Other considerati ons	Intervention	Control	Relative	Absolute	Quality	r t a n c e
Outcome D - N	Respiratory a	rrest										
2	RCTs	Serious (-1)	No problems	(-1)	Yes						GRADE- LOW	П
MacIntyre (2005)	RCT	Serious (-1)		(-1) not prehosp, long sz prior to ED	Yes		109 (2 arrests, 1.8%)	110 (3 arrests, 2.7%)		0.9%	LOE Mod	
Mpimbaza (2008)	RCT	No		(-1) not prehosp, long sz prior, majority with malaria	Yes		165	165	Unclear (see resp dep)	Unclear	LOE Strong	
Outcome E - R	t Respiratory d	lepression		•			•	•		'		•
2	RCTs	Serious (-1)	No problems	(-1)	Yes						GRADE- LOW	П
MacIntyre (2005)	RCT	Serious (-1)		(-1) not prehosp, long sz prior to ED	Yes		109 5% 92 (only 1 st episode) 4%	110 6% 85 (only 1 st episode) 7%		2%(-4.8)	LOE Mod	
Mpimbaza (2008)	RCT	No		(-1) not prehosp, long sz prior, majority with malaria	Yes		185	165	1 (unclear if any arrest vs low sat)	0 (1.2% each group)	LOE Strong	

LOE= Level of Evidence

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3. Intranasal Midazolam Compared to Rectal Diazepam:

PICO Question:

(Efficacy)

In patients < 18 years of age, with or without a prior a prior history of epilepsy, with an acute tonic-clonic seizure (including those in status epilepticus), does intranasal midazolam lead to seizure cessation (secondary outcomes: time to cessation, recurrence in 1 hour) more frequently compared to rectal diazepam in randomized controlled trials or quasi-randomized trials performed in the prehospital (preferred) or emergency department

(Safety)

In patients < 18 years of age, with or without a prior a prior history of epilepsy, with an acute tonic-clonic seizure (including those in status epilepticus), does intranasal midazolam have equivalent likelihood of respiratory arrest (secondary outcomes: any respiratory depression, other severe events) compared to rectal diazepam in randomized controlled trials or quasi-randomized trials (or observational or case-control studies) in the prehospital (preferred) or emergency department

GRADE:

Strength of recommendation: weak; Level of evidence: very weak

Evidence:

Very limited data suggests that intranasal Midazolam is at least as effective, and potentially more effective, than rectal diazepam for the cessation of seizures in children who are in the emergency department setting. Very limited data suggests that intranasal Midazolam is as safe as rectal diazepam for the treatment of children with seizures who are in the ED setting. However, data is lacking for the pre-hospital setting.

Values and preferences were prioritized in order of seizure cessation, time to seizure cessation, respiratory arrest, acceptability by prehospital personnel and parents and ease of use. See the tables below containing Outcomes A-E for additional information.

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								Summ	ary of find	inas	•	1
			Quality asse	ssment			No of pa			ffect		m P
No of studies	Design	Limitations	Inconsistency	Indirectness	Imprec ision	Other considerations	Intervention Intranasal	Control	Relative (95% CI)	Absolute	Quality	n c e
Outcome A	A - Seizur	e cessation (v	vithin 10 minutes	5)								
2											GRADE Very low	Γ
Bhattacha ryya (2006)	RCT	(-2), including multiple episodes per patient		(-2) Outpt and ED, 37% gen T-C	(-1)		92 episodes (not pts) 96.7%	98 episodes (not pts) 88.5%		8.2% favors intranasal	LOE Very weak	
Fisgin (2002)	RCT	(-2)		(-1) ED	(-1)		23 (87%)	22 (60%)		27%	LOE Weak	
	3 – Time t	o seizure ces	sation									
2											GRADE Very Low	
Bhattacha ryya (2006)	RCT	(-2), including multiple episodes per patient		(-2) Outpt and ED, 37% gen T-C	(-1)		92 episodes (not pts) 178 sec SD 179	96 episodes (not pts) 116 sec SD 127		62 sec	LOE Very weak	
Fisgin (2002)	RCT	(-2)		(-1) ED	(-1)		23 83% <5 min	22 54.5% <5min			LOE Weak	

LOE= Level of Evidence



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		Our	ality asses	ement				Summary	y of 1	findings		
		Que	anty asses	Silient			No of p	atients		Effect		m p
No of studies	Design	Limitations	Inconsist ency	Indirectness	Imprecision	Oth er con side ratio ns	Intervention	Control	R e l a t l v e	Absolute	Quality	r t a n c
Outcome C	– Seizure r	ecurrence within	ı 1 hour									
1 Bhattacha ryya (2008)		(-2), including multiple episodes per patient		(-2) Outpt and ED, 37% gen T-C	(-1)		92 episodes (not pts) 3%	96 episodes (not pts) 6.25%		3.25% (favors IN midaz)	GRADE Very Low LOE Very weak	

			Quality 2000	coment				Summ	ary of fir	ndings		I m
			Quality asse	SSITIETIL			No of p	atients	E	ffect		p
No of studies	Dəsign	Limitations	Inconsistency	Indirectness	Imprecision	Other considerations	Intervention	Control	Relati ve	Absolute	Quality	t a n c
Outcome D	– Respira	tory arrest						•	· ·			
2											GRADE Very Low	Γ
Bhattacha ryya (2006)	RCT	(-2), including multiple episodes per patient		(-2) Outpt and ED, 37% gen T-C	(-1)		92 episodes (not pts) 0-unclear	96 episodes (not pts) 0-unclear		0	LOE Very weak	
Fisgin (2002)	RCT	(-2)		(-1) ED	(-1)		23 0-unclear	22 0-unclear		0-unclear	LOE Weak	
Outcome E	– Respirat	tory depression										
Bhattacha ryya (2006)	RCT	(-2), including		(-2) Outpt and ED, 37%	(-1)		92	96			GRADE Very Low	
(2000)		multiple episodes per patient		gen T-C			episodes (not pts)	episodes (not pts)		Unclear	LOE Very weak	

LOE= Level of Evidence

4. Intramuscular Midazolam Compared to IV Diazepam:

PICO Ouestion:

(Efficacy)

In patients < 18 years of age, with or without a prior a prior history of epilepsy, with an acute tonic-clonic seizure (including those in status epilepticus), does IM midazolam lead to seizure cessation (secondary outcomes: time to cessation, recurrence in 1 hour) equivalently compared to IV diazepam in randomized controlled trials or quasi-randomized trials performed in the prehospital (preferred) or emergency department.

(Safety)

In patients < 18 years of age, with or without a prior a prior history of epilepsy, with an acute tonic-clonic seizure (including those in status epilepticus), does intramuscular midazolam have equivalent likelihood of respiratory arrest (secondary outcomes: any respiratory depression, other severe events) compared to IV diazepam in randomized controlled trials or quasi-randomized trials (or observational or case-control studies) in the prehospital (preferred) or emergency department

GRADE:

Strength of recommendation: weak; Level of evidence: very weak

Evidence:

Very limited data suggests that intramuscular Midazolam is as effective as intravenous diazepam for the cessation of seizures in children who are in the emergency department setting. Very limited data suggests that intramuscular Midazolam is as safe as intravenous diazepam for the treatment of children with seizures who are in the emergency department setting. However, data are lacking for the pre-hospital setting

Values and preferences were prioritized in order of seizure cessation, time to seizure cessation, respiratory arrest, acceptability by prehospital personnel and parents and ease of use. See the tables below containing Outcomes A-E for additional information.

			Quality asse	eemont				Sumi	mary of fin	dings		L
			Quality asse	SSIIIEIIL			No of p	atients	E	ffect		P
									Relative		O156	
No of studies	Design	Limitations	Inconsistency	Indirectness	Imprecision	Other considerations	Interventio IM	n Control	(95% CI)	Absolute	Quality	anoe
Outcome A	A - Seizur	e cessation (v	vithin 10 minutes	5)								
2		Serious(-1)	No	Yes (-1)	Yes(-1)						GRADE VERY WEAK	
Chamber- lain (1997)	RCT	Serious (-1)		Yes(-1) not prehosp, long sz prior to treatment	Yes (-1)		13 (92.3%)	11 (91%)	RR 0.85, (95% CI 0.06, 12.01)	1.3% favors IM	LOE Mod	
Shah (2005)	RCT	Very serious (-2)		Yes (-2), ED, admitted and PICU, severe underlying diseases	Yes (-1)		50 90%	31 93.5% Only those w/o IV Initially		-3.5%(favors dlazepam)	LOE Very weak	

LOE= Level of Evidence

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		0						Summar	y of find	lings		I m
		Qua	iity a	ssessment			No of p	oatients		Effect		p o
No of studies	Decign	Limitations	ino on sis ten oy	Indirectness	impreoi sion	Other oonsiderati ons	Intervention	Control	Relativ e	Absolute	Quality	r t a n o e
Outcome	B – Tim	e to seizure	cess	ation if no IV line	,							
2											GRADE VERY WEAK	П
Chamber- lain (1997)	RCT	Serlous (-1)		Yes(-1) not prenosp, long sz prior to treatment	Yes (-1)		13 7.8 min (time to cessation after ED arrival)	11 11.2 min (time to cessation after ED arrival)		3.3 min (favors IM, includes time to put in IV)	LOE Mod	
Shah (2005)	RCT	Very serious (-2)		Yes (-2), ED, admitted and PICU, severe underlying diseases	Yes (-1)		50 97 sec	31 250 sec		153 sec (2.6 min)-includes time to place IV	LOE Very weak	
Outcome (C – Seizur	e recurrence w	ithin	l hour								
1											GRADE VERY WEAK	
Chamber- lain (1997)	RCT	Serious (-1)		Yes(-1) not prehosp, long sz prior to treatment	Yes (-1)		13 30.7%	11 36.4%		-5.4% (favors IM midaz)	LOE Mod	

Outcome D	– Respira	atory arrest							
2									GRADE VERY WEAK
Chamber- lain (1997)	RCT	Serious (-1)	Yes(-1) not prehosp, long sz prior to treatment	Yes (-1)	13 (92.3%)	11 (91%)	RR 0.85, (95% CI 0.06, 12.01)	1.3%	LOE Mod
Shah (2005)	RCT	Very serious (-2)	Yes (-2), ED, admitted and PICU, severe underlying diseases	Yes (-1)	50 0/50	31 0/31		0	LOE Very weak
Outcome E	– Respira	atory depression							
1 Chamber-	RCT	Serious	Yes(-1) not	Yes (-1)					GRADE VERY WEAK
lain (1997)	NOT	(-1)	prehosp, long sz prior to treatment	163 (*1)	13	11	Unclear	Unclear	LOE Mod

LOE= Level of Evidence

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5. Intramuscular Midazolam Compared to Rectal Diazepam

PICO Question:

(Efficacy)

In patients < 18 years of age, with or without a prior a prior history of epilepsy, with an acute tonic-clonic seizure (including those in status epilepticus), does intramuscular (IM) midazolam lead to seizure cessation (secondary outcomes: time to cessation, recurrence in 1 hour) more frequently than rectal diazepam in randomized controlled trials or quasi-randomized trials performed in the prehospital (preferred) or emergency department.

(Safety)

In patients < 18 years of age, with or without a prior a prior history of epilepsy, with an acute tonic-clonic seizure (including those in status epilepticus), does intramuscular midazolam have equivalent likelihood of respiratory arrest (secondary outcomes: any respiratory depression, other severe events) compared to rectal diazepam in randomized controlled trials or quasi-randomized trials (or observational or case-control studies) in the prehospital (preferred) or emergency department

Evidence:

No literature included in final pool.

No useful comparative data exist on which to recommend or not recommend IM midazolam compared to rectal diazepam for patients < 18 years of age with acute seizures in the prehospital setting.

6. Intramuscular Midazolam Compared to Intranasal Midazolam

PICO Question:

(Efficacy)

In patients < 18 years of age, with or without a prior a prior history of epilepsy, with an acute tonic-clonic seizure (including those in status epilepticus), does IM midazolam lead to seizure cessation (secondary outcomes: time to cessation, recurrence in 1 hour) equivalently to intranasal midazolam in randomized controlled trials or quasi-randomized trials performed in the prehospital (preferred) or emergency department

(Safety)

In patients < 18 years of age, with or without a prior a prior history of epilepsy, with an acute tonic-clonic seizure (including those in status epilepticus), does IM midazolam have equivalent likelihood of respiratory arrest (secondary outcomes: any respiratory depression, other severe events) compared to intranasal midazolam in randomized controlled trials, quasi-randomized trials, observational or case-control studies in the prehospital (preferred) or emergency department

Evidence:

No literature included in final pool.

No useful comparative data exist on which to recommend or not recommend IM midazolam compared to intranasal midazolam for patients < 18 years of age with acute seizures in the prehospital setting.

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7. Intramuscular Midazolam Comapared to Buccal Midazolam

PICO Question:

(Efficacy)

In patients < 18 years of age, with or without a prior a prior history of epilepsy, with an acute tonic-clonic seizure (including those in status epilepticus), does IM midazolam lead to seizure cessation (secondary outcomes: time to cessation, recurrence in 1 hour) equivalently to buccal midazolam in randomized controlled trials or quasi-randomized trials performed in the prehospital (preferred) or emergency department

(Safety)

In patients < 18 years of age, with or without a prior a prior history of epilepsy, with an acute tonic-clonic seizure (including those in status epilepticus), does IM midazolam have equivalent likelihood of respiratory arrest (secondary outcomes: any respiratory depression, other severe events) compared to buccal midazolam in randomized controlled trials, quasi-randomized trials, observational or case-control studies in the prehospital (preferred) or emergency department

Evidence:

No literature included in final pool.

No useful comparative data exist on which to recommend or not recommend IM midazolam compared to buccal midazolam for patients < 18 years of age with acute seizures in the prehospital setting.

8. Intranasal Midazolam Comapred to Buccal Midazolam

PICO Question:

(Efficacy)

In patients < 18 years of age, with or without a prior a prior history of epilepsy, with an acute tonic-clonic seizure (including those in status epilepticus), does intranasal midazolam lead to seizure cessation (secondary outcomes: time to cessation, recurrence in 1 hour) equivalently to buccal midazolam in randomized controlled trials or quasi-randomized trials performed in the prehospital (preferred) or emergency department

(Safety)

In patients < 18 years of age, with or without a prior a prior history of epilepsy, with an acute tonic-clonic seizure (including those in status epilepticus), does intranasal midazolam have equivalent likelihood of respiratory arrest (secondary outcomes: any respiratory depression, other severe events) compared to buccal midazolam in randomized controlled trials, quasi-randomized trials, observational or case-control studies in the prehospital (preferred) or emergency department

Evidence:

No useful comparative data exist on which to recommend or not recommend Intranasal midazolam compared to buccal midazolam for patients < 18 years of age with acute seizures in the prehospital setting.



Administer 2nd Dose (IV/IO or alternate route) IV diazepam

If short (<=5 mins) transport time, use alternative routes:

Strong recommendation, Low evidence

Values/Preferences:

• Skill competency of EMS provider

Administer second dose of lorazepm or midazolam:

Weak Recommendation, Low Evidence,

Values/Prefeences:

- Seizure cessation in field
- Prompt transfer of child
- Avoid respiratory distress
- Acceptability by prehospital personnel
- Ease of use of therapies in prehospital setting
- Simplicity of algorithm
- Continuum of care between EMS and ED

IV diazepam or lorazepam:

Weak recommendation, Low evidence

Values/Preferences:

- seizure cessation
- respiratory depression

Use of IV Midazolam:

Weak recommendation, Very low evidence

Values/Preferences:

- need to only carry one benzo
- low risk respiratory depression