



*North Country Regional Emergency
Medical Advisory Committee
"Serving Jefferson, Lewis & St. Lawrence Counties"*

www.fdrhpo.org/ems

To: North Country ALS Agencies
From: North Country REMAC
Date: April 10th, 2018
RE: Fentanyl and Ketamine Administration

The North Country Regional Emergency Medical Advisory Committee is putting forth this advisory regarding the dosing of fentanyl and ketamine due to significant concerns over the dosages as written in the NYS Collaborative ALS protocols. Agencies must follow policy statements below to obtain both medications:

- NYS Department of Health Policy Statement 17-04, including reporting requirements for Fentanyl.
- NYS Department of Health Policy Statement 17-03, including reporting requirements for Ketamine.

Important Fentanyl Considerations

- Administration should be discontinued if evidence of hypotension, altered mental status, or decreased respiratory drive are noted upon reassessment.
- **WARNING: Fentanyl in combination with a benzodiazepine may potentiate effects.**

When contacting medical control for Fentanyl or Ketamine, please reference this advisory and suggested starting doses to review with med control physician.

ADULT Pain Management and Adult Procedural Sedation

Fentanyl standing order for Critical Care and Paramedics

- Fentanyl 25-50 mcg IV/IM/IN aliquots q 5-10 minutes
- Total maximum dose is 200 mcg.

Ketamine is a medical control option and can only be administered by Paramedics

- Ketamine 25 mg IV over 5 min or 50 mg IM.
- May repeat every 10-15 min as needed.
- Total maximum dose is 250 mg.



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PEDIATRIC Pain Management

Fentanyl standing order for Critical Care and Paramedics

- Fentanyl 0.5 mcg/kg IV/IM/IN aliquots q 5-10 minutes as needed.
- Total maximum dose of 100 mcg.

ADULT Procedural Sedation Protocol

Fentanyl Standing order for Paramedic, Medical Control Order for Critical Care

- Fentanyl 25-50 mcg IV/IM/IN aliquots q 5-10 minutes as needed.
- Total maximum dose is 200 mcg.

Ketamine – Paramedic Only with Medical Control Order

Ketamine IV dosing

- Ketamine 0.5 mg/kg IV aliquots q 10-15 minutes.
- Total maximum dose is 250 mg IV.

OR

Ketamine IM dosing

- 3 mg/kg IM.
- If needed, repeat dose of 2 mg/kg IM.
- Total maximum dose is 250 mg IM.

PEDIATRIC Procedural Sedation Protocol

Fentanyl - Paramedic only with Medical Control Order

- Fentanyl 0.5 mcg/kg IV/IM/IN aliquots q 5-10 minutes as needed
- Total maximum dose is 1-1.5 mcg/kg IV/IM/IN.

Ketamine - Paramedic only with Medical Control Order

- Ketamine 0.5 mg/kg IV/IM aliquots q 10-15 minutes as needed
- Total maximum dose of 1mg/kg IV/IM.



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ADULT Excited Delirium

- Ketamine may also be utilized **instead of** Midazolam (Versed) by **Paramedics only** for excited delirium
- **IM Ketamine dosing**
 - 3 mg/kg **IM**
 - Total maximum dose is 250 mg **IM**.

OR

- **IV Ketamine dosing**
 - Ketamine 0.5 mg/kg **IV** aliquots q 10- 15 minutes as needed up
 - Total maximum total dose of 250 mg **IV**.