

PROTOCOL	
Subject: Administration of N-Acétylcystéine (Mucomist)	Page: 1 of 2
Source : Parenteral Drug Manuel Therapy Ottawa Hospital	Date: February 2007
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Indication

Treatment of acetaminophen overdose

Administration

Infusion: administer diluted solution as recommended in Dosage section below.

Potentiel administration hazards

Nausea, vomiting

Hypertension

Anaphylactoid reactions (**watch carefully during first hour**), including:

- flushing,
- angioœdema,
- hypotension,
- cutaneous eruptions,
- dyspnea,
- tachycardia

(Antidote: diphenhydramine[Benadryl]). Restart infusion at a slower rate.

Compatibility, Stability

- Open vials should be stored in the fridge and used within 96 hours.
- Stable for 14 days at room temperature **or** 28 days in the fridge when diluted at 1 mg/ml **or** 60 mg/ml diluted in D5% or NS in viaflex or glass containers.

General manegement

- Admission
- Early treatment is very important.
- R of charcoal may be given if presents within 2 hours of ingestion.

- Monitoring of liver and renal functions, electrolytes and fluid balance, in doing the following blood tests:
 - Acetaminophen level
 - Ast
 - Alt
 - Bilirubine totale
 - PTT
 - Creatinine
 - Bun
 - Glucose
 - Electrolytes

In patients who consumed sustained release acetaminophen, blood level determinations should be made at 4 and again at 8 hours after the suspected time of ingestion to take into account the delayed release properties.

N-Acetylcysteine therapy should be started within 24 hours and preferably 8 -10 hours of acetaminophen ingestion to prevent liver damage.

In patients with toxic acetaminophen levels, liver function tests should be determined on admission and daily for 3 days or until levels begin to return to normal.

Dosage

Step 1 Initial dose:

150 mg/kg in 200 ml D5W over 15 minutes.

Initial dose may be infused over a period of up to 60 minutes to reduce risk of anaphylactoid reactions.

Step 2

50mg/kg in 500 ml D5W over 4 hours.

Step 3

100mg/kg in 1000 ml D5W over 16 hours.

Total dose = 300mg/kg over 20 hours.