

Form Title **Management of Acetaminophen Toxicity Acetylcysteine (NAC) Regimen
Adult - Pediatric Order Set**

Form Number **21761Bond**

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Last Name <i>(Legal)</i>		First Name <i>(Legal)</i>	
Preferred Name <input type="checkbox"/> Last <input type="checkbox"/> First		DOB <i>(dd-Mon-yyyy)</i>	
PHN	ULI <input type="checkbox"/> Same as PHN	MRN	
Administrative Gender <input type="checkbox"/> Male <input type="checkbox"/> Female		<input type="checkbox"/> Non-binary/Prefer not to disclose (X) <input type="checkbox"/> Unknown	

Management of Acetaminophen Toxicity Acetylcysteine (NAC) Regimen Adult - Pediatric Order Set

Select orders by replacing a (✓) in the associated box

Weight			
Weigh Patient	<input type="checkbox"/>	_____ kg actual	<input type="checkbox"/>
			_____ kg estimate
Medications			
Antidote			
<ul style="list-style-type: none"> • Consider calling Poison & Drug Information Service at 1-800-332-1414 • <i>Patients with potentially toxic acetaminophen concentrations and/or evidence of hepatic injury regardless of the nature of the acetaminophen ingestion (acute or chronic, early or late presentation, hepatic failure) should have IV NAC administered for a minimum of 21 hours using the following one concentration, 2 step regime.</i> • <i>NAC is most effective if administered within 8 hours of ingestion</i> • <i>Refer to the AHS Acetaminophen Nomogram</i> https://insite.albertahealthservices.ca/Main/assets/tms/edmed/tms-edmed-mch-acetaminophen-nomogram-chart.pdf • <i>For dosing and infusion instructions see the pharmacy parenteral monograph</i> http://webappsint.albertahealthservices.ca/pharmacy/pm/pm_preview.asp?id=7833#14 • <i>Refer to Poison and Drug Information Service (PADIS) Guidelines on Management of Acetaminophen Toxicity</i> https://insite.albertahealthservices.ca/Main/assets/Policy/clp-prov-padis-nac-apap-2-step.pdf 			
2 step regimen: total intended dose of 450mg/kg infused over at least 21 hours			
Initial Loading Dose			
<input type="checkbox"/>	acetylcysteine (150 mg/kg IV)	_____ mg	once over 60 minutes. Initial Loading Dose. Maximum initial dose for 100 kg or more is 15,000 mg (15g)
Followed by			
<input type="checkbox"/>	acetylcysteine (15 mg/kg/hour IV)	_____ mg/hr	over at least 20 hours. Maximum rate for 100 kg or more is 1500 mg/hour (1.5 g/hour)
<ul style="list-style-type: none"> • <i>At the completion of 21 hours, stop acetylcysteine if all of the following criteria are met:</i> <ul style="list-style-type: none"> - <i>Serum acetaminophen concentration is undetectable</i> - <i>Aminotransferases (ALT +/- AST) normal or declining on at least one measurement</i> - <i>INR less than 2</i> - <i>Serum creatinine normal or declining</i> - <i>Patient clinically well (no evidence of encephalopathy)</i> 			
<i>If the above criteria are not met, NAC should be continued at the rate of 15 mg/kg/hour and terminated when all of the above criteria are met.</i>			
<input type="checkbox"/>	continue IV acetylcysteine at current rate of 15 mg/kg/hr		
Prescriber Name	Prescriber Signature	Date <i>(dd-Mon-yyyy)</i>	Time <i>(hh:mm)</i>

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PHN	ULI <input type="checkbox"/> Same as PHN	MRN	
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Gastrointestinal Decontamination

If patient presents within four hours of a known or suspected acetaminophen ingestion equal to or greater than 7.5 g or equal or greater than 150 mg/kg, should consider activated charcoal, unless there are contraindications such as unable to protect airway, depressed mental status, concern for a possible intestinal obstruction or decreased peristalsis, or any need for endoscopy.

activated charcoal 1g/kg _____ PO once (up to maximum of 50 g)

Laboratory Investigations

Stat

Chemistry

Creatinine

Alanine Amino Transferase (ALT)

Aspartate Amino Transferase (AST)

Coagulation

INR

Therapeutic Drug Monitoring and Toxicology

Acetaminophen Level (ideally 4 hours after ingestion, if time known)

12 hours post initiation of acetylcysteine loading dose

Monitoring of electrolytes due to the high volume of fluid administered is recommended.

Sodium

Potassium

Chloride

Carbon Dioxide

Near completion of 21 hour acetylcysteine infusion

Creatinine

ALT

AST

INR

Acetaminophen Level

Patient Care

Analgesics and Antipyretics

Avoid acetaminophen

Avoid nonsteroidal anti-inflammatory (NSAIDs) agents

Consults

Inpatient Specialty Consults

Inpatient Consult to _____

Inpatient Consult to _____

Poison & Drug Information Service at 1-800-332-1414

Prescriber Signature

Date *(dd-Mon-yyyy)*

Time *(hh:mm)*