Newborn use only

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Alert	Also known as N-acetylcysteine (NAC).	
	Refer to acetylcysteine intravenous for paracetamol overdose.	
	Safety data for acetylcysteine as a mucolytic agent in newborn infants is limited and the dosage	
	recommendation was on the basis of consensus.	
	Injection preparations are safe to use as oral preparation.	
Indication	Meconium ileus secondary to cystic fibrosis	
	Meconium-related ileus of preterm infants	
	Distal intestinal obstruction secondary to cystic fibrosis	
	Gastric or intestinal milk curd obstruction (lactobezoar)	
Action	Reduces the viscosity of mucus by cleaving disulphide bonds in the mucoprotein	
Drug type	Mucolytic agent	
Trade name	DBL Acetylcysteine Injection Concentrate	
	Acetadote Concentrated Injection (solution for infusion)	
	Acetylcysteine-Link Concentrate for infusion	
Presentation	DBL Acetylcysteine Injection Concentrate 20%; 200 mg/mL ampoule	
	Acetadote Concentrated Injection (Solution for infusion) 20%; 200 mg/mL vial	
_	Acetylcysteine-Link Concentrate for infusion 20%; 200 mg/mL ampoule	
Dosage	Intragastric	
	Meconium ileus: 400 mg/dose (4 mL/dose of acetylcysteine 10%) (range 100–500 mg/dose, 1–5	
	mL/dose of acetylcysteine 10%) 6–8 hourly ² . Acetylcysteine 10% = 100 mg/mL	
	Distal intestinal obstruction secondary to CF in 1–3-month old: 400 mg/dose (8 mL of acetylcysteine 5% (50 mg/m) doith 2^9 . A pathleutoine 5%	
	(50 mg/mL) daily ²² . Acetylcysteine 5% = 50 mg/mL	
	Rectal enema OR via distal intestinal stoma 40-200 mg/doss of acotyleystoing 4% (1-5 mL of acotyleystoing 4%) 6-8 hourly. Acotyleystoing 4% = 40	
	40-200 mg/dose of acetyicysteme 4% (1-3 me of acetyicysteme 4%) 0-8 nounly. Acetyicysteme $4% - 40$	
	50-100 mg/dose of acetylcysteine 1% (5-10 ml /kg of acetylcysteine 1%) 6-8 hourly has also been	
	reported Acetylcysteine $1\% = 10 \text{ mg/ml}$	
Dose adjustments –	No information	
special scenarios		
Maximum dose	400 mg/dose orally	
Total cumulative		
dose		
Route	Oral via gastric tube	
	Rectal	
	Distal intestinal stoma or via T-tube ileostomy	
	Irrigation through Replogle tube	
Preparation	Intragastric preparation ^{4,5}	
	Acetylcysteine 10%: Dilute 5 mL of acetylcysteine 20% (200 mg/mL) with 5 mL of glucose 5% or sodium	
	chloride 0.9%* to make a final volume of 10 mL with a concentration of acetylcysteine 10% (100	
	mg/mL)	
	*For Acetadote Concentrated Injection – use glucose 5% only	
	Dented an atoms a durini struction 22.23	
	Rectal or stoma administration ^{22,25}	
	Acetylcysteine 4%: Dilute 1 mL of acetylcysteine 20% (200 mg/mL) with 4 mL of glucose 5% of sodium	
	*For Acotadote Concentrated Injection – use glucose 5% only	
Administration	Intragastric/restal/stama: Administer slowly	
Auministration	Irrigation via Replogle tube: As a continuous irrigation with suction applied	
Monitoring	Cardiorespiratory serum electrolytes liver function	
Contraindications	Hypersensitivity to acetylcysteine or any component of the preparation	
Procentions	Do not use if intestinal perforation is suspected	
i ictautions	Abnormal liver and/or renal function	
	Caution in asthma and bronchospasm	
	Caution in asthma and bronchospasm Acetylcysteine is not compatible with rubber and some metals, particularly, iron, conner and nickel	
	Caution in asthma and bronchospasm Acetylcysteine is not compatible with rubber and some metals, particularly, iron, copper and nickel. Can be used with silicone and plastic.	

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Adverse reactions	Flushing, pruritus and urticarial reactions reported.	
	Hypersensitivity reactions, vomiting, nausea, hypernatremia, hepatotoxicity, mucosal injury and	
	haemorrhage.	
Compatibility Fluids: DBL Acetylcysteine Injection Concentrate and Acetylcysteine-Link Concentrate: Gluids:		
	sodium chloride 0.9%	
	Acetadote Concentrated Injection: Glucose 5%	
Incompatibility	Fluids: No information	
Stability	Extemporaneously prepared solutions of 1% and 10% acetylcysteine diluted with sodium chloride 0.9%	
	are stable for up to 60 days when stored in plastic amber bottles at room temperature. ²⁴	
	Acetadote Concentrated Injection is stable for 24 hours at 2 to 8°C after dilution.	
Storage	Injection: Store at room temperature. Protect from light.	
Excipients	DBL Acetylcysteine Injection Concentrate and Acetylcysteine-Link Concentrate for infusion: Disodium	
	edetate, sodium hydroxide, water for injections.	
	Acetadote Concentrated Injection (solution for infusion): Water for injections and sodium hydroxide	
	for pH adjustment. ²⁶⁻²⁸	
Special comments	Refer to full version.	
Evidence	Refer to full version.	
Practice points	Refer to full version.	
References	Refer to full version.	

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