

**PANDEMIC FLU – PEDIATRICS SEVERE SYMPTOM MANAGEMENT CHART  
JUNE 14, 2009**

<b>Symptom</b>	<b>Medication</b>	<b>Route Of Administration</b>	<b>Pediatric Dosage</b>	<b>Comments</b>
Dyspnea Air Hunger	Morphine liquid concentrate (10 mg/5ml) <i>Note: care must be taken to clearly mark packaging for diluted morphine solution.</i>	Oral	0.15 – 0.3 mg/kg every 4 hours	Max initial dose: 1.5 mg
	Morphine injectable solution	Subcutaneous or IV	0.05 – 0.1 mg/kg every 4 hours	Max initial dose: 0.5 mg
	Lorazepam – tabs (if necessary, dissolve in < 1 ml of fluid)	Oral	0.025 – 0.05 mg/kg every 6 hours	Max initial dose 0.5 mg
	Lorazepam injectable solution	Subcutaneous, IV, or rectally as microenema	0.0025 – 0.05 mg/kg every 6 hours	Max initial dose 0.5 mg
Distressing Cough	Morphine liquid concentrate (10mg/5ml) <i>Note: care must be taken to clearly mark packaging for diluted morphine solution</i>	Oral or sublingual	0.15 mg/kg every 2 to 4 hours as needed	Maximum initial dose 1.5 mg
	Morphine Injectable solution	Subcutaneous or IV	0.05 mg/kg every 2 to 4 hours as needed	Maximum initial dose 0.5 mg
Secretions in Patients Unable to Cough	Glycopyrrolate – 1 or 2 mg tablets	Oral	0.05 – 0.1 mg/kg every 4 hours as needed	Max initial pediatric dose: 1 mg/dose (8 mg/day)
	Glycopyrrolate – injectable solution	IV or subcutaneous	0.005 – 0.01 mg/kg every 4 hours as needed <i>Note: 10-fold dosage difference by route</i>	Maximum 0.1 – 0.2 mg/dose, .8 mg/day Maximum initial pediatric dose 0.1mg. Do not use injectable in patients less than 1 month.
	Atropine – 1% ophthalmic solution	Oral/sublingual – not in eyes	½ drop under age 6; 1 drop age 6 and above	

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Fever Mild muscle aches Mild chest pain	Acetaminophen – tabs or liquid (180mg/5ml or 80 mg/0.8ml)	Oral or rectal	10 – 15 mg/kg every 4 hours	Max: 30 mg/kg/day: newborn 60 mg/kg/day: infant 90 mg/kg/day: children 3 gm/day : >12 yo
	Ibuprofen – tabs or syrup (100mg/5ml)	Oral	5 to 10 mg/kg every 6 to 8 hours as needed	Max: 40 mg/kg day or 2.4 g/day: 6 mo-12 yo 3.2 g/day: >12 yo  <i>No salicylates in children</i>
Moderate/Severe Pain	Morphine liquid concentrate (10 mg/5ml) <i>Note: care must be taken to clearly mark packaging for diluted morphine solutions.</i>	Oral	0.15 – 0.3 mg/kg every 4 hours	Max initial dose: 6 mg
		Subcutaneous or IV	0.05 – 0.1 mg/kg every 4 hours	Max initial dose: 2 mg
Nausea/Vomiting	Ondanstetron (1 <sup>st</sup> line in pediatrics)	Oral or rectal	0.15 mg/kg every 8 hours	Max dose: 4 mg if 12 yo or less; 8mg if >12 yo
Constipation	Senna	Oral – liquid or tabs	Age 3-6: 2.5 ml 2 x daily Age 7-12: 5 ml 2 x daily Age 13 >: 1 tab 2 x daily	Hold Senna for loose stools
	Infant glycerin suppositories	Rectal	<6 yo: 1 - 1.5 gram suppository retained for 15 minutes	

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Constipation (continued)	Bisacodyl 5 Mg Tabs	Oral Tab	Age: 6-12 - 1 tab Age: >12 - 2 tabs	Give oral tabs at night No maximum documented
	Bisacodyl Suppositories	Rectal Suppositories	Age: 12 years or younger: ½ 10 mg suppository Age: > 12 Years: 1 10 mg suppository	Give suppositories in the morning
	Docusate liquid	Oral	Age: 3-6: 25 mg 2 x daily Age: 7-12: 50 mg 2 x daily	Hold Docusate for loose stools
	Docusate Capsule	Oral	Age 13 or > 1 100 mg Capsule 2 x daily	
Anxiety	Lorazepam tabs (if necessary dissolve in < 1 ml of fluid)	Oral	0.025 – 0.05 mg/kg every 6 hrs	Max initial dose: 0.5mg
	Lorazepam Injectable solution	Subcutaneous or IV	0.025-0.05 mg/kg every 6 hours	Max initial dose: 0.5mg
Agitation/Anxiety (if Lorazepam is inadequate)	Phenobarbital tabs	Oral	2.5mg/kg twice daily (every 12 hours)	Assure maximal therapy for pain, dyspnea and constipation have been tried before resorting to Phenobarbital
Or Intractable Symptoms/Anxiety/Existential Distress	Phenobarbital injectable solution (130 mg/ml)	Subcutaneous or IV	2.5 mg/kg twice daily (every 12 hours)	Maximum dose: 45 – 60 mg  Haloperidol not to be used in children under the age of 3 years.

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Hallucinations/Disorientation Delirium	Haloperidol – tabs	Oral	Age 0-3 years: not used	Haloperidol not to be used under the age of 3 years.
	Or Haloperidol injectable solution	Or Subcutaneous or IV	Age 4 – 12 years: 0.005 mg/kg every 8 hours Age > 12 years: 0.5 mg every 2 – 4 hours. May increase to 2 mg per Dose.	Maximum total daily dose of 0.5 mg  Dosing the same for Oral and for subcutaneous or IV
Seizures: 1 <sup>st</sup> line	Lorazepam tabs (if necessary dissolve in < 1 ml of fluid)	Oral, rectal	0.05 mg/kg every 10 minutes until seizure stops	up to 2 mg
	Lorazepam injectable solution	Subcutaneous or IV	0.05 mg/kg every 10 minutes until seizure stops	up to 2 mg
Seizures, Alternatives, 2 <sup>nd</sup> line	Phenobarbital tabs	Oral	2.5 mg/kg twice daily (every 12 hours)	Max initial dose 45 – 60 mg
	Phenobarbital injectable 130 mg/ml	Subcutaneous or IV	2.5 mg/kg twice daily (every 12 hours)	