

## APPENDIX G: Pharmacologic Management of Agitation / Aggression in Pediatric Patient

SITUATION	MEDICATION	DOSE	RISK
<b>Extreme Anxiety</b> <i>without aggression</i>	Alpha-adrenergic agonists ( <b>Clonidine, Guanfacine, Dexmedetomidine {only in PICU}</b> )	<ul style="list-style-type: none"> <li>• Clonidine: 0.025-0.1mg PO</li> <li>• Guanfacine: 0.25-1mg PO</li> <li>• Dexmedetomidine: 0.2mg/kg IV {only in PICU}</li> </ul> <u>For Clonidine:</u> <ul style="list-style-type: none"> <li>➤ Dose every 2-4 hours as needed</li> <li>➤ Max <i>individual</i> dose: 0.2mg</li> <li>➤ Max <i>daily</i> dose: 0.6mg in 24 hours</li> <li>➤ 30 minute for onset</li> </ul>	- Hypotension
<b>Agitation</b> <i>with suspected ingestion or intoxication as cause</i>	<b>Lorazepam (Ativan)</b>	<ul style="list-style-type: none"> <li>• May be given PO/IM/IV</li> <li>• Starting dose: 0.05 mg/kg</li> <li>• Range: 0.02-0.1mg/kg</li> <li>• Max <i>individual</i> dose: 2mg</li> <li>• Max <i>daily</i> dose: 10mg in 24 hours</li> <li>• Dose every 2-4 hours as needed</li> </ul> Onset <ul style="list-style-type: none"> <li>➤ PO: 20-60 minutes</li> <li>➤ IM: 5-10 minutes</li> <li>➤ IV: Immediate</li> </ul>	- Paradoxical reaction, especially in younger children
<b>AVOID USING IM/IV LORAZEPAM and IM OLANZAPINE WITHIN 1 HOUR OF EACH OTHER DUE TO RISK OF CARDIORESPIRATORY DEPRESSION</b>			
<b>Aggression or Agitation with low suspicion of ingestion as cause</b>	<b>Olanzapine (Zyprexa) – 1<sup>st</sup> LINE</b>	<ul style="list-style-type: none"> <li>• May be given PO (tab or dissolvable ODT)/IM</li> <li>• 2.5mg (6-10 years)</li> <li>• 5mg (10+ years)</li> <li>• 10mg (consider if adult size)</li> <li>• Dose every 2-4 hours as needed</li> <li>• Max <i>daily</i> dose: 20mg in 24 hour</li> </ul>	<ul style="list-style-type: none"> <li>- Dystonia</li> <li>- NMS</li> <li>- Caution if liver disease</li> </ul>
	<b>Ziprasidone IM (Geodon)</b>  Only use if IM/IV Lorazepam given within 1 hour and patient still agitated	<ul style="list-style-type: none"> <li>• To be given IM for agitation or aggression</li> <li>• 0.2mg/kg</li> <li>• Max <i>individual</i> dose: 20mg IM</li> <li>• Max <i>daily</i> dose: 40mg IM in 24 hours</li> </ul>	<ul style="list-style-type: none"> <li>- QTc prolongation</li> </ul> <u>AVOID IF:</u> <ul style="list-style-type: none"> <li>- Concomitant medication with risk for QTc prolongation</li> <li>- Known cardiac condition</li> </ul>
<b>Dystonia</b>	<b>Benadryl (Diphenhydramine)</b>	<ul style="list-style-type: none"> <li>• 1mg/kg</li> </ul>	- Possible side effect of antipsychotics