



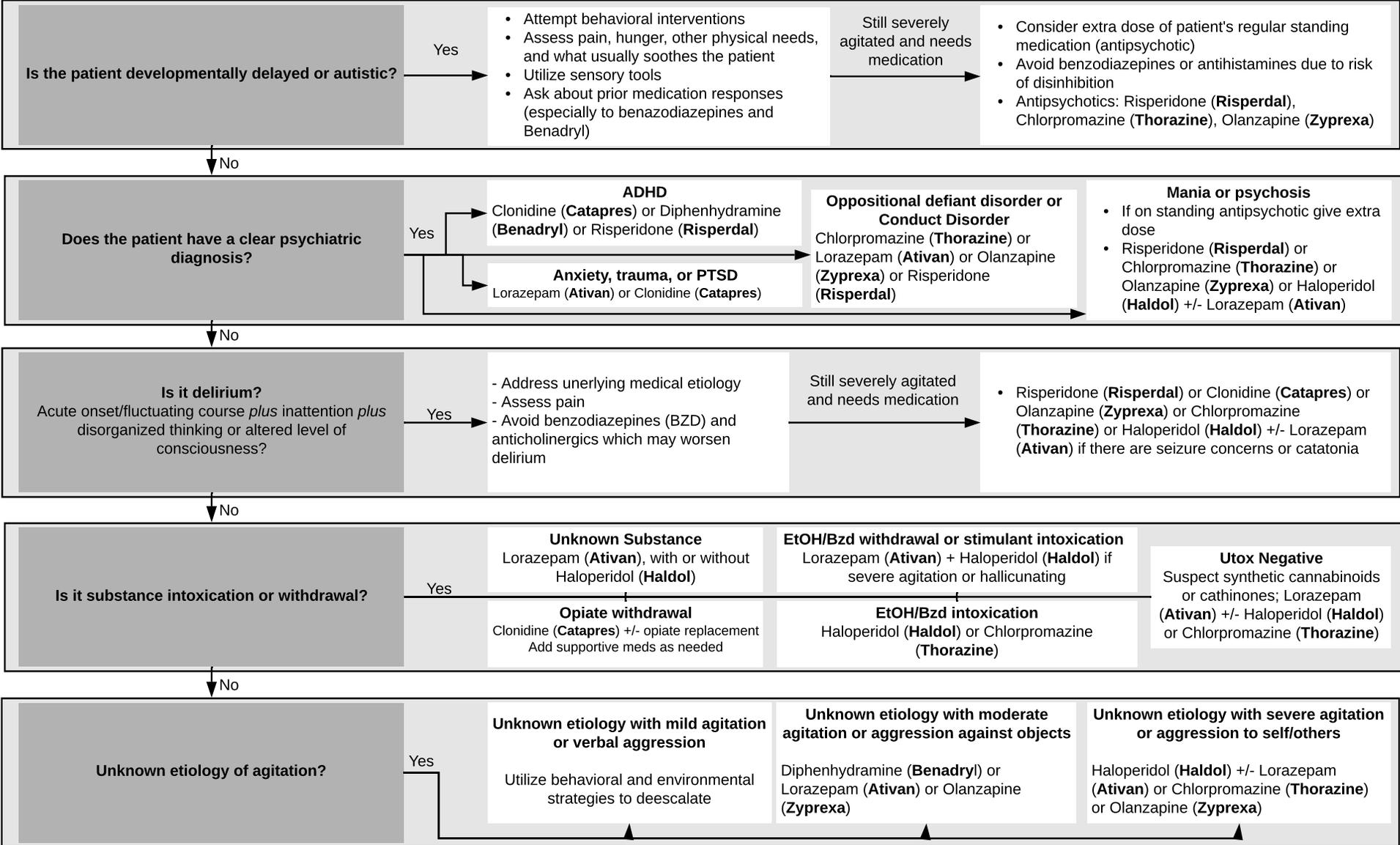
## Pediatric Agitation Pathway in the Emergency Department

The following information is intended as a guideline for the acute management of children and adolescents with acute agitation in the emergency department (including GNSH and BHED). Management of your patient may require a more individualized approach.



Agitation is a symptom, like pain, with many potential etiologies and often multiple contributing in the moment. Even if a child has a known psychiatric/developmental disorder history, comorbid physical disease, anxiety, or other acute triggers should still be ruled out and a broad differential maintained. Non-pharmacologic approaches used for de-escalation should be employed early with a preventative, proactive approach. The goal for pharmacotherapy is twofold: 1) Target the underlying cause of distress; and 2) calm the patient sufficiently for rapid assessment and treatment. Pharmacologic strategies should be used in concert with non-pharmacologic de-escalation efforts continuing during and after medication administration

**SEE OPPOSITE PAGE FOR MEDICATION DOSING**



## Medications for Acute Agitation

| Medication  | Dose  | Peak effect   | Max daily dose  | Notes/monitoring  |
|---|---|---|---|---|
| Diphenhydramine<br>[Benadryl]<br>(antihistaminic) | PO/IM: 12.5-50mg<br>1 mg/kg/dose<br>TID-QID PRN<br>(50 mg max per dose)                             | PO: 2 hours   | Child: 50-100 mg<br>Adolescent: 100-200 mg  | Avoid in delirium   |
| Lorazepam [Ativan]<br>(benzodiazepine)            | PO/IM/IV: 0.5 mg-2 mg<br>Q4-8hrs PRN<br>(2 mg max per dose)<br>0.05 mg-0.1 mg/kg/dose               | IV: 10 mins<br>PO/IM: 1-2 hours                       | Child: 4 mg<br>Adolescent: 6-8 mg<br>Depending on weight/prior<br>medication exposure | Avoid in delirium. <b>Do not give with olanzapine</b><br>(especially IM due to risk of respiratory<br>suppression).   |
| Clonidine [Catapres]<br>(alpha 2 agonist)         | PO: 0.05 mg- 0.1 mg<br>Q8 hrs PRN   | PO: 30-60 mins  | 27-40.5 kg: 0.2 mg/day<br>40.5-45 kg: 0.3 mg/day<br>>45 kg: 0.4 mg/day                | Monitor for hypotension and bradycardia<br>Avoid giving with benzodiazepines (BZD) or<br>atypical antipsychotics due to hypotension risk  |
| Chlorpromazine<br>[Thorazine]<br>(antipsychotic)  | PO/IM: 12.5-60 mg<br>Q6-8hrs PRN<br>0.55 mg/kg/dose   | PO: 30-60 mins<br>IM: 15 mins                         | Child <5 years: 40 mg/day<br>Child >5 years: 75 mg/day                                | Monitor hypotension<br>Monitor for QT prolongation  |
| Haloperidol [Haldol]<br>(antipsychotic)           | PO/IM: 0.5 mg- 5 mg<br>0.05-0.1 mg/kg/dose<br>Q6hr PRN<br>(5 mg max per dose)                       | PO: 2 hours<br>IM: 20 mins                            | 15-40 kg: 6mg<br>>40 kg: 15 mg<br>Depending on prior antipsychotic<br>exposure        | Monitor hypotension Consider EKG or cardiac<br>monitoring for QT prolongation, especially for IV<br>administration.<br>Note EPS risk with major depressive disorder<br>(MDD) > 3 mg/day, with IV dosing having very<br>high EPS risk. |
| Olanzapine [Zyprexa]<br>(antipsychotic)           | PO/ODT or IM:<br>Age 4 to <6: 1.25 mg once<br>Age 6-12 years: 2.5 mg once<br>Age >12: 2-5-5 mg once | PO: 5 hours<br>(range 1-8<br>hours)<br>IM: 15-45 mins | 10-20 mg<br>Depending on antipsychotic<br>exposure                                    | <b>Do not give IM with or within 1 hour of any<br/>BZD given risk for respiratory suppression</b>   |
| Risperidone [Risperdal]<br>(antipsychotic)        | PO/ODT: 0.25-1mg<br>0.005-0.01 mg/kg/dose   | PO: 1 hour  | Child: 1-2 mg<br>Adolescent: 2-3 mg<br>Depending on antipsychotic<br>exposure         | Can cause akathisia (restlessness/agitation) in<br>higher doses   |

**For any dosing or formulation questions call the pharmacy**

Psych ED Pharmacy: 4-4097

ED Pharmacy: 4-3765

Peds Pharmacy (7a-10p): 4-6679

Central Pharmacy (10p-7a): 4-8761