

# PSYCHOSTIMULANT EARLY INTERVENTION FLOWCHART

**Assessment:** Confirm use and type of substance, frequency and length of use, mode of administration and time of last use.

## ACUTE INTOXICATION PATHWAY

**START HERE**

**IS THE PERSON INTOXICATED?**

**Features of psychostimulant intoxication:**

- Euphoria, excitement, increased confidence
- New or worsening mental health symptoms: anxiety, panic, hallucinations, paranoia
- Hypervigilance, impulsivity
- Agitation, irritability, anger, hostility
- Psychomotor agitation: restlessness, pacing, repetitive movements, tremor
- Rapid, pressured speech
- Flushed cheeks, sweating, dry mouth
- Dilated pupils or sluggish light reflex
- Hypertension, tachycardia
- Decreased appetite and need for sleep
- Hypersexuality, at risk sexual behaviours
- Fresh needle marks

**ACUTE INTOXICATION PATHWAY**

**NO ACUTE INTOXICATION PATHWAY**

See No Acute Intoxication Pathway A3 Poster for more details.

**Assessment:**  
DRABC: Danger, Response, Airway Breathing, Circulation

Needs resuscitation?

Commence resuscitation, call 000 ambulance / Refer to ED

Medically unstable?

- BP > 180/120
- Chest pain
- Severe SOB
- Seizure
- Severe headache
- Neurological changes

Serotonin toxicity?

- Temp > 38°C, flushing, sweating
- Tachycardia
- Mydriasis
- Muscle rigidity, shivering, tremor
- Hyperreflexia, ocular clonus, myoclonus
- Altered conscious state (delirium, confusion, disorientation)
- Anxiety

**DIFFERENTIAL DIAGNOSES:**  
Delirium, head trauma, encephalitis, meningitis, metabolic encephalopathy (renal, hepatic, Na, Ca, low BSL), sepsis, seizure / post-ictal, dementia, poly-substance intoxication.

**INVESTIGATIONS:**

- Full set of physical observations, O<sub>2</sub> saturation
- Neurological examination
- BSL, BAL and UDS
- Urine dipstick testing for haemoglobin / myoglobinuria
- Pathology FBC, E/LFT, Mg, CK, troponin if chest pain
- ECG if chest pain, SOB, low O<sub>2</sub> Sat, hypertension tachycardia
- CT brain if altered conscious state, focal neurological signs, severe headache
- HepC, HepB, HIV if Hx of IV drug use or snorting or STD check

**MEDICAL COMPLICATIONS:**  
**Dehydration or water intoxication:** Monitor urine output check serum sodium.  
**Cardiac chest pain:** Use aspirin (avoid if BP > 160), oxygen and sublingual GTN. **AVOID BETA BLOCKERS**, they can worsen coronary vasoconstriction and **AVOID CALCIUM CHANNEL BLOCKERS** may trigger seizures.  
**Hypoglycaemia:** Check BSL.  
**Haematuria / myoglobinuria.**  
**Hypertension:** Mostly transient, no specific treatment necessary.

**ASSESSMENT – MENTAL AND PHYSICAL**

Requires or requests sedation?

Acute Behavioural Disturbance?  
NB: IN MENTAL HEALTH SETTINGS REFER TO: 'Acute behavioural disturbance management (including acute sedation) in Queensland Health Authorised Mental Health Services (adults and children/adolescents)'.

De-escalation techniques

- Safety first, ensure back-up
- Try earlier than later
- Do not antagonise
- Listen to concerns
- Be empathic, non-judgemental and respectful
- Acknowledge distress
- Offer help
- Set limits

Continue assessment in a safe area

De-escalation successful?

• diazepam 5-20mg oral; or  
• lorazepam 1-2mg oral; and/or  
• olanzapine 5-10mg oral  
May be repeated after 4-6 hours. The level of sedation should ensure that the person is drowsy but rousable!

Accepts oral sedation?

Enough resources to handle the situation safely?

- Trained and rehearsed team?
- Senior Medical Officer aware?
- Airway and resuscitation equipment available?

Secure area, call 000 police

**Parenteral sedation (<65 years old, organic diagnosis excluded)**

**First dose: droperidol 10mg IM**  
If patient does not settle in 15 minutes:  
**Second dose: droperidol 10mg IM / IV**  
NB: Maximum dose of droperidol is 20mg per event  
If patient does not settle after another 15 minutes:  
**Third line agents (<65 years old) Senior Medical consultation required**

- ketamine 4-5mg/kg IM or 1mg/kg IV
- midazolam 5-10mg IM / IV

See Qld Emergency Medicine Guidelines for more detail

**PLEASE NOTE:**

- Only apply if the patient is a danger to him/herself and/or others, combative, violent, out of control, very anxious and/or agitated.
- Ensure maximum safety. Gather resources first (including security), keep calm, get all staff and equipment ready before commencing.
- IV access preferred if available.
- Use five point restraint, one on each limb and head with team leader for monitoring. Cease as soon as it is no longer required (<10 minutes).
- Monitor airway, breathing, circulation, consciousness, body alignment.
- Avoid prone position! If essential, should not exceed 2 minutes.
- Monitor Pulse Oximetry and Vital Signs 5 minutely for 20 minutes then every 30 minutes for 2 hours after EACH parenteral sedation.
- Beware O<sub>2</sub> Sat < 95% and Resp rate < 12 or patient appears poorly perfused, T > 38 rising.
- Benzotropine 1-2mg IM / IV for Acute Dystonic Reaction.

**References:** 'Addiction Medicine' Oxford Specialist Handbooks, Latt et al. 2009; 'Guidelines for the acute assessment and management of amphetamine-type stimulant intoxication and toxicity' St Vincent's Hospital (Melb.), Nexus, and the VDDI 2014; Management of patients with Acute Severe Behavioural Disturbance in Emergency Departments, NSW Health, August 2015; The DORM Study, Ann Emerg Med 2010;56:392-401. Developed by Insight Clinical Support Services, July 2016. To download visit [www.insightqld.org/meth-check](http://www.insightqld.org/meth-check)  
This initiative is part of Queensland Health's response to 'ice' crystal methamphetamine.

