

Management of Violence and Physically Threatening Behaviour in Adults Guideline

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Brief summary c Document	ummary of approach is taken to the safe management of violence and physically							
 This guideline provides advice to all Health Board staff in regards to the safe management of violence and physically threatening behaviour; in particular advice is given on non-pharmacological methods, pharmacological methods and subsequent monitoring required for the rapid tranquilisation (RT) of adults within acute mental health settings 						cular thods and		
268 - Medicines Policy (Acute, Mental Health, Learning Disabilities and Community Services) 008 - Consent to Examination or Treatment Policy 374 - Mental Capacity Act 2005 Policy 176 - Non Medical Prescribing Policy 163 - Deprivation of Liberty Safeguards: Guidance and procedure for staff NICE guideline (NG10) May 2015. Violence and aggression: short-term management in mental health and community settings. https://www.nice.org.uk/guidance/ng10 351- Monitoring and Recording of Adult Physiological Observations And The Response to Physical Deterioration Policy								

Owning Group	Medicines Management Group
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	Reviews and Updates				
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1	New Guideline	2/5/2018			

Glossary Of Terms:

Term	Definition
RT	Rapid Tranquillisation
RC	Responsible Consultant
SOAD	Second Opinion Appointed Doctor
PRN	Pro re nata (when required)
ECG	Electrocardiogram
СТО	Community Treatment Order
QTc	Corrected QT interval
U&E's	Urea and Electrolytes
NEWS	National Early Warning Score

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1. INTRODUCTION

"Violence and aggression refer to a range of behaviours or actions that can result in harm, hurt or injury to another person, regardless of whether the violence or aggression is physically or verbally expressed, physical harm is sustained or the intention is clear" (NICE NG10).

This guideline gives advice to prescribers and other health care professionals on the use of nonpharmacological and following this, pharmacological methods in reducing the risk of violence and aggression. This guideline gives advice on the short term use of quick acting drugs, their doses and required subsequent monitoring. The use of drugs in this way is not without risks and can be distressing for patients and carers. Therefore, it is prudent to ensure that any interventions are used safely and effectively.

2. SCOPE

This guideline applies to:

- Patients over 18 years of age who are admitted to adult inpatient mental health settings.
- Who are severely agitated and needing an intervention to quickly calm, in order to reduce the risk of imminent and serious violence to self or others.

This guideline must be followed by all healthcare professionals involved in the care of severely agitated patients in an adult inpatient mental health setting. This includes inpatient psychiatric care, emergency and urgent care. Consideration should be given to the frailty of each patient and whether it may be more appropriate to use the lower doses as stated in the older person's algorithm.

This guideline does not encompass advice for the management of violence and physically threatening behaviour in paediatric patients or patients with learning disabilities. Specialist advice should be sought for an individualised management plan in these groups.

3. AIM

The aim of this guideline is:

• To ensure a safe, consistent approach is taken to the consideration and use of interventions required for the management of violence and physically threatening behaviour in mental health settings.

4. OBJECTIVES

The aim of this guideline will be achieved by:

- Prescribing safely within an appropriate legal framework
- Administration of an appropriate intervention when deemed necessary
- Reflection on the intervention

5. THE LEGAL BASIS FOR TREATMENT

Informal Patients or patients under short terms sections and other relevant sections of the MHA to which Part IV of the Act does not apply e.g. Sec 35, 135, 136, 5 (4), 5(2), 4 etc. If the patient is mentally capable of making a decision about treatment, the common law enables him to refuse to be treated for either a physical or mental disorder. However, if the patient is assessed as being mentally incapable of making a decision about treatment, the treatment can be provided under the MCA if it is deemed to be in his best interests.

Detained patients under a section to which Part IV of the Act applies (e.g. S2, S3, S37, S37/41, S36, S38, S47, S47/49, S48, S48/49 etc) who are within the first three months of medication as treatment for mental disorder can be treated without their consent under S63.

Detained patients under a section to which Part IV of the Act applies (e.g. S2, S3, S37, S37/41, S36, S38, S47, S47/49, S48, S48/49 etc) who are beyond the first three months of medication as treatment for mental disorder (section 58), must have a certificate – either a CO2 (patient consenting, RC or SOAD completes), a CO3 (patient not consenting or lacking capacity to consent – SOAD completes) or the treatment must be authorised under S62 (RC completes form) if it is urgent treatment and meets the criteria for the use of S62.

CTO patients are subject to Part IVA of the Act (treatment of community patients not recalled to hospital). For treatment a certificate is required one month from when the patient leaves hospital or 3 months from when the medication was first given to the patient, whichever is the latter. For those patients who have capacity and consent to their treatment a CO8 Certificate can be issued by the patients RC. For those patients who do not have capacity or do not consent to treatment their treatment must be certified by a SOAD (CO7 certificate).

CTO patients who have been recalled to hospital can be treated without consent if their CO7 (SOAD completes) authorises treatment on recall, or, if they meet the criteria for S62, that can be used as authority for urgent treatment.

CTO patients who have been revoked can be treated under S62 whilst provisions are made to comply with S58 – i.e. a CO2 or CO3 certificate.

In the event that treatment is prescribed and administered for those patients who require a certificate/ authorisation for treatment (recalled/ revoked CTO patients and patients to whom S58 applies) the form (whether it be a CO2/ CO3 or S62 form) must give authority for that particular medication to be prescribed and given.

6. ROLES AND RESPONSIBILITIES

Prescribers are accountable for:

- Prescribing the right drug at the right dose via the right route and under an appropriate legal framework
- Specifying minimum time between doses and the maximum dose to be administered in a 24 hour period
- Consider medication already prescribed
- Reviewing the prescription weekly
- Ensuring patients are monitored for side effects and desired effects of any medicines administered
- Documenting rationale and target symptoms treated

Nursing staff are accountable for:

- Exhausting other strategies to calm the patient, as part of the behavioural management plan, before using pharmacological methods
- The safe administration of medicines which includes compliance with minimum time between doses and the maximum dose to be administered in a 24 hour period
- The selection of the right medicines at the right dose via the right route for the purpose of managing acutely disturbed patients
- Ensure medication is administered under an appropriate legal framework
- Subsequent monitoring of patients for side effects and desired effects of any medicines administered
- Notifying medics of any physical deterioration

- Debrief patients
- Debrief staff
- Review interventions and risk management plan

Pharmacists are accountable for:

- Ensuring the prescription for medicines for RT has the right dose, right medicine and right route
- Ensuring appropriate administration of medicines
- Ensuring appropriate subsequent monitoring of side effects and desired effects of any medicines administered
- Ensuring medication is prescribed and administered under an appropriate legal framework
- Ensuring prescriptions are reviewed weekly

7. TREATMENT GUIDELINES

6.1 Non-pharmacological

Extreme agitation, aggression and potentially violent behaviour, if safe to do so, should be in the first instance managed or reduced by non-pharmacological methods deployed by skilled staff. These include behavioural approaches and de-escillation techniques, e.g. talking down, distraction, time out etc. Other non-pharmacological options include: Increased levels of observation, transfer the patient to a psychiatric intensive care unit, the use of restrictive physical interventions or the use of seclusion/segregation.

Even when they do not prevent the need for pharmacological treatment, they will help preserve the therapeutic relationship and improve safety

It is also important to ensure that any developing situation or positive intervention takes into account the individual needs of patients related to:

- Sensory impairment
- Black and minority ethnic patients
- Language, cultural and religious needs and the research that exists that shows black minority and ethnic patients have a tendency to experience over prescribing
- Patients with a physical impairment
- Patients with a cognitive impairment
- Patients with communication difficulties
- Gender and sexual orientation
- Age
- Pregnant patients (see specialist advice)
- Ensure that all interventions are appropriate and propionate to the situation

6.2 Pharmacological Treatments

The common clinical practice of Rapid Tranquilisation (RT) is used when appropriate psychological and behavioural approaches have been unsuccessful. Patients should only be treated with the following medicines after an assessment of risk and when it has been established that the risk of not doing so is greater than the risk of acute pharmacological treatment. The nurse in charge should brief all staff involved in the pharmacological intervention and the course of action required.

For clinical decision making algorithms and drug doses refer to Appendices 1 (for adults) and 3 (older adults).

Consideration should be given to any co-existing medical illnesses, and any regularly prescribed medication, for example:

- Oral antipsychotics:
 - o Consider total dose for regular and prn
 - Include depot antipsychotics
- Oral benzodiazepines:
 - Consider benzodiazepines already prescribed for regular administration (additional PRN doses may have little effect)
- Substance misuse or alcohol intoxication
 - Consider using antihistamines over benzodiazepines

Avoid benzodiazepines in patients who are physically unwell, delirious or who have significant respiratory impairment. Use benzodiazepines in preference to antipsychotics in patients with cardiac disease, as these are safer, but beware of accumulation. Benzodiazepines should also be used in preference to antipsychotics in antipsychotic naive patients.

Consider the above carefully as this may impact on dose requirements and potential side effects.

If the total daily combined dose of any medication is above BNF limits, the consultant psychiatrist must be contacted to discuss, out of hours the on-call consultant can be should be consulted. Polypharmacy within a class of medication (e.g. antipsychotics), where at all possible, should be avoided.

Oral medication should be offered before intramuscular (IM) treatment is administered. If oral medication is repeatedly refused, the decision to forcibly medicate a patient (IM) will be taken jointly by medical and nursing staff. Once the decision has been made to forcibly medicate, the patient should be isolated from other patients on the ward. Nursing and medical staff involved in restrictive physical interventions should be proficient in "control and restraint" techniques and should have adequate immunisation against hepatitis B.

Older people

Many older people remain physically fit, though are still likely to have greater sensitivity to sideeffects of medication. The lower minimum/maximum dose compared with adults reflects this lower tolerability.

Those least tolerant are older people who are clearly chronically frail or have a concurrent medical illness including dementia, especially Lewy body dementia. Therefore, frail older people should be given only the lowest dose of the dose range.

8. DRUGS USED IN RAPID TRANQUILLISATION

The algorithm for the management of violence and physically threatening behaviour in Adults is in Appendix 1& 3. It contains the recommended doses and medicines to be used.

Drug	Route	Formulations	Pharmacokinetics	Maximum Daily Licensed Doses	Major side effects	Notes
Aripiprazole	IM	7.5mg/mL	Peak 1-3hrs t½ 75-146hrs	Maximum daily dose 30mg including all formulations	Nausea, dizziness, somnolence	No more than 3 injections in 24 hrs Monitor for excessive sedation and postural hypotension
Haloperidol	Oral	5mg and 10mg tablets 2mg/ml liquid	Peak 4 hrs t½ 21 hrs	20mg	EPSE Hypotension NMS Increased	Note risk of acute dystonias, which is higher in older people. If IM haloperidol is used, consider prescribing 5- 10mg procyclidine IM to reduce risk of EPS
	IM	5mg/ml injection	Peak 20 mins t½ 21 hrs	18mg 12mg (elderly)	QTc Arrhythmias Seizures Sudden death	Caution if using in antipsychotic naive patient. Consider using lorazepam alone or a low dose of haloperidol (2.5mg- 5mg).
						ECG is recommended by manufacturer prior to treatment in all patients, owing to rare reports of QTc prolongation and ventricular arrhythmias
						Never mix haloperidol and lorazepam in the same syringe
Olanzapine	Oral	5mg and 10mg tablets 5mg and 10mg orodispersible	Peak 5-8hrs t½ 32-51hr	20mg including all formulations	Hypotension Bradycardia Syncope	Less likely to cause EPSE than haloperidol Monitor for excessive sedation IM administration results in initial plasma concentration 5 times higher than same dose given orally. N.B. Only an
		tablets				unlicensed IM formulation is available in the UK
	IM	5mg/ml injection	Peak 15-45 minutes t½ 30hrs	20mg including all formulations		A maximum of three injections in 24hrs. Olanzapine IM should not be administered for more than 3 consecutive days
						IM benzodiazepines cannot be given within 1 hr of IM olanzapine
Risperidone	Oral	1mg and 2mg tablets	Peak 1-2hrs t½ 18hrs	16mg N.B. Doses	EPSE Hypotension	Not a highly sedative antipsychotic
		1mg and 2mg orodispersible tablets		above 6mg rarely used as increased incidence of		Can be used in combination with 1-2mg lorazepam

8.1 Short acting antipsychotics: background information

	PSEs	
1mg/ml liquid		

8.2 Benzodiazepines

Lorazepam	Oral	1mg tablets	Peak 2hrs	4mg (Adults)	Respiratory	Lorazepam should be mixed in a 1:1 ratio with water for
			t½ 12hrs	2mg (Elderly)	depression	injections before administration
	IM	4mg/ml	Peak 60-90mins	0.1-0.12mg/kg		
		injection	t½ 12-16hrs		Disinhibition	Doses above BNF limits should be authorised by a
						consultant psychiatrist and be reviewed regularly

Flumazenil

Flumazenil should be administered by a doctor if respiratory rate drops to below 10/min (or oxygen saturation <90%) due to the sedative effects of benzodiazepines. Repeated doses may be required as it is short acting (see section 10 for further dosing details). Flumazenil is best avoided in patients with epilepsy – start mechanical ventilation instead.

Flumazenil is kept in the emergency boxes which can be located on all wards.

8.3 Antihistamines

Promethazine	Oral	25mg tablets 5mg/ml liquid	Peak 2-3hrs t½ 7-15hrs	60mg	Prolonged sedation	IM promethazine is a suitable alternative to IM lorazepam during a national shortage
	IM	25mg/ml injection	Peak 1-2hrs t ¹ / ₂ 7-15hrs	100mg	Seizures Cardiorespiratory depression	Give by deep IM injection into a large muscle mass. No dilution is required May be considered in those who are antipsychotic naive who have been administered the maximum dose of
						medication or who are benzodiazepine tolerant

9. DRUGS NOT RECOMMENDED FOR RT

- Oral/IM chlorpromazine (intramuscular is extremely painful and there is a severe risk of severe hypotension)
- IM diazepam (to be avoided due to erratic and slow absorption)
- IM depot antipsychotics (including zuclopenthixol acetate (Clopixol Acuphase[®]) as the onset of action is delayed and the duration of action is very long.

10. RISKS ASSOCIATED WITH MEDICINES USED IN RT

In certain circumstances prescribing outside the health board guidelines may be appropriate. A risk benefit analysis should be recorded in the patient health record and a rationale in the care plan. Where the risk benefit is unclear, consideration should be given to seeking advice from clinicians who are not directly involved in the care of the patient. There are specific risks associated with the different classes of medications that are used in rapid tranquilisation. The specific properties of the individual drugs should be taken into consideration. When combinations are used, risks may be compounded. (Also see section 7). Staff need to be aware of the following:

For benzodiazepines (i.e. lorazepam)

- Loss of consciousness
- Respiratory depression or arrests
- Cardiovascular collapse (in patients receiving both clozapine and benzodiazepines)
- Paradoxical increases in aggression
- Worsening of delirium ensure delirium is excluded before using benzodiazepines.

For antipsychotics (i.e. olanzapine and haloperidol)

- Loss of consciousness
- Cardiovascular and respiratory complications and collapse (risk arrhythmias and sudden death)
- Seizures
- Subjective experience of restlessness (akathisia)
- Acute muscular rigidity (dystonia)
- Involuntary movements (dyskinesia)
- Neuroleptic malignant syndrome
- Excessive sedation.

For antihistamines (i.e. promethazine)

- Excessive sedation
- Painful injection
- Additional muscarinic effects
- Hypotension
- Arrhythmias.

Extra care should be taken when implementing rapid tranquilisation in the following circumstances:

- The presence of congenital cardiac conduction abnormality
- The concurrent prescription or use of other medication that lengthens QT intervals on ECG both directly and indirectly
- The presence of certain disorders affecting metabolism, such as stress and extreme emotions, and extreme physical exertion (hypokalaemia, dehydration).

11. MONITORING AND MANAGEMENT OF SIDE EFFECTS

All patients who receive any parenteral drug for RT should have their

- temperature
- pulse
- blood pressure
- respiratory rate.

Monitored by ward staff every 5-10 min for 1 hour (as per table below), then half-hourly until patient is ambulatory. Refer to Appendix 2 for an outline of required safety measures.

Patients who refuse to be monitored or who remain too behaviourally disturbed to be approached should be observed for signs/symptoms of pyrexia, hypotension, over sedation and general physical well-being. For patients that refuse physical monitoring this must be clearly documented in the patient's health records.

In the event of a patient sleeping or who is unconscious, the continuous use of pulse oximetry to measure oxygen saturation is desirable. A nurse should remain with the patient until ambulatory.

ECG monitoring is recommended by the manufacturer of haloperidol prior to treatment in all patients, owing to rare reports of QTc prolongation and ventricular arrhythmias. When parenteral antipsychotics are administered (especially high doses) electrocardiogram and monitoring of U&E's is advised due to the risk of cardiac arrhythmias with hypokalameia, stress and agitation.

For details on the management of side effects after RT, refer to Table 1 below.

The nurse administering the medicine for RT is responsible for subsequent monitoring arrangements. Observations should be recorded on the NEWS chart and any physical deterioration should be referred to a doctor immediately.

Table 1: Management of side-effects

Problem		Iros			
Problem Patient solven	Remedial Measu				
Patient asleep		piratory rate every 10 minutes; if unrousable monitor every 5 y rate reduced (<10/min) or oxygen saturation falls below 90%,			
Reduced respiratory rate <10/min	Initiate continuous m				
	Give oxygen, raise le	egs, ensure patient is not lying face down.			
Oxygen saturation < 90% (normal is 95-100%)	Give flumazenil only	sion is benzodiazepine-induced. y if respiratory depression is benzodiazepine-induced. the emergency boxes which can be located on all wards.			
	Guidelines for use				
	Contraindications:	Patients with epilepsy who have been receiving long-term benzodiazepines			
	Caution:	Hepatic impairment (titrate dose carefully)			
	Dose:	Initial dose: 200microgram intravenously over 15 seconds			
		If required level of consciousness not achieved after 60 seconds then:			
		Subsequent doses: 100microgram <i>intravenously</i> over 10 seconds, repeated after 60 seconds if necessary			
	Maximum dose:	1mg in 24hours (one initial dose and eight subsequent doses)			
	Monitoring	Monitor respiration until rate returns to baseline. If respiratory rate does not return to normal or patient is not alert after initial doses, assume that sedation is due to another cause and refer to doctor.			
		ession is induced by other medicines or causes patient will I ventilation – arrange transfer to ITU immediately			
Orthostatic or diastolic hypotension (<50mmHg)	Lie patient flat, raise	e legs if possible. Monitor closely			
Acute dystonia, including oculogyric crisis	Procyclidine 5-10mg Older adults: 2.5-5m	IM or IV should be given a			
Irregular or slow (<50/min) pulse		are immediately. ECG essential			
Increased temperature	 Withhold antipsychotics as risk of neuroleptic malignant syndrome (NMS) and perhaps arrhythmia. monitor closely cool patient 				
		nine kinase, BP, FBC, U&Es, MSU			
	 sweating 	m if continued signs of NMS present: n or fluctuating BP idity			
	 altered cons 	ciousness			

12. POST INCIDENT REVIEW

Post incident review by nursing staff should consist of:

- A short feedback session following restrictive physical intervention and sedation (i.e. feedback/debrief) between nursing and medical staff to enable reflection of the incident.
- Debriefing and providing the patient with a post incident support questionnaire and record in their health records. This should aid the patient to describe and discuss their experience with a member of the team if they wish. The carer and/or an advocate may be involved in this process if appropriate. Discuss completion of an advance directive for future preferred treatment options with the patient.
- Completion of a restrictive physical intervention record on Datix system and a detailed entry in the electronic recording system "care partner".
- Updating the patient's risk assessment and individual care plan.
- Sharing of any reflection or learning from staff or patient feedback that may improve the process in the future.

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Acknowledgements

The guidelines have also been adopted from those of:

The Maudsley Prescribing Guidelines

Southampton University Hospitals NHS Trusts. Adult Rapid Tranquilisation: Policy and Guidance for use in Patients Displaying Acutely Disturbed or Violent Behaviour Oct 2014

East London NHS Foundation Trust. Rapid Tranquilisation Policy for Adults and Older People August 2014

14. APPENDIX 1: ALGORITHM FOR THE MANAGEMENT OF VIOLENCE AND PHYSICALLY THREATENING BEHAVIOUR IN ADULTS

Acutely disturbed or violent behaviour in Adults

Start with

Non-pharmacological measures e.g. De-escalation, time out, placement etc (as appropriate)

Then Offer Oral drug treatment Consider an antipsychotic if NOT already taking Consider the following as first-line treatment options (especially if unknown or no history of a regular oral or depot antipsychotic previous antipsychotic use): Olanzapine 10mg OR • Lorazepam 1-2mg

- Promethazine 25-50mg

- Risperidone 1-2mg OR •
- Haloperidol 5mg (last resort, pre-treatment ECG required)

Continue non-drug measures, if that doesn't work after 45-60 minutes (wait longer with promethazine), try

Further oral drug treatment, as above Combine sedatives and antipsychotics, if necessary

Consider IM treatment if two oral doses fail or sooner if the patient is placing themselves or others at significant risk

Intramuscular (IM) Treatment Have flumazenil to hand in case of benzodiazepine Lorazepam 2mg . induced respiratory depression OR IM promethazine is a useful option in a benzodiazepine-Promethazine 25-50mg tolerant patient OR Aripiprazole 9.75mg Less hypotension than olanzapine but may be less OR effective Olanzapine 10mg IM olanzapine and IM benzodiazepine administrations OR should be separated: At least 1 hour for lorazepam Haloperidol 5mg Haloperidol should be the last drug considered High incidence of acute dystonia; ensure IM procyclidine is available - pre-treatment ECG required

If that doesn't work after 30-60 minutes, try

Further IM drug treatment, as above (including combinations) Combinations* *Never mix 2 drugs in the same syringe Lorazepam + Haloperidol OR Promethazine + Haloperidol (last resort + ECG)

If that doesn't work after 30-60 minutes

Seek expert advice from the consultant or senior clinical pharmacist on-call

15. APPENDIX 2: SAFETY MEASURES

Safety Measures	
Always have available for immediate use	
Flumazenil	
Facilities for mechanical ventilation	
Pulse oximeter	
Sphygmomanometer	

• Thermometer

For all patients receiving parenteral treatment,

monitoring consists of:

- Temperature
 - Pulse
- Blood Pressure
- Respiratory rate

Every 5-10 minutes for 1 hours, then half hourly until the patient is up and about

Patients who refuse to have their vital signs monitored or who remain too behaviourally disturbed to be approached should be observed for signs of:

- Pyrexia
- Hypotension
- Oversedation
- General physical deterioration

For patients who are fully sedated (very deep sleep or unconscious),

also monitor:

- Oxygen saturation (by pulse oximetry)
- Ensure airway is clear

Nurse to remain with patient until they are up and about

For all IM antipsychotics, it is strongly recommended to have a:

• Pre-treatment ECG

16. APPENDIX 3: ALGORITHM FOR THE MANAGEMENT OF VIOLENCE AND PHYSICALLY THREATENING BEHAVIOUR IN

Older Adults

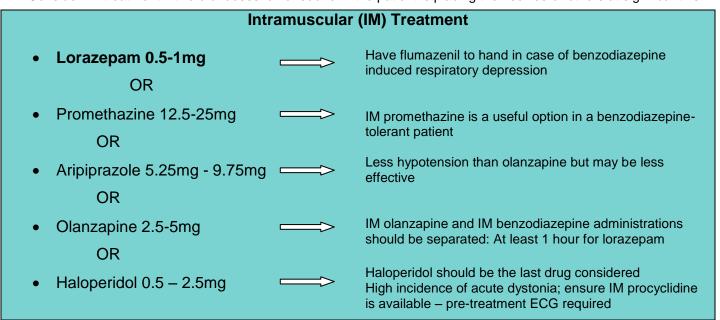
Acutely disturbed or violent behaviour in Older Adults

Start with

Non-pharmacological measures

e.g. De-escalation, time out, placement etc (as appropriate)

	Then					
Offer Oral drug treatment						
Consider the following as first-line treatment Consider an antipsychotic if NOT already taking						
options (especially if unknown or no history of	a regular oral or depot antipsychotic					
previous antipsychotic use):	Olanzapine 2.5mg - 10mg OR					
Lorazepam 0.5-1mg	Risperidone 0.5-1mg OR					
Promethazine 25-50mg	Haloperidol 2.5-5mg(last resort, pre-					
	treatment ECG required)					
Continue non-drug measures, if that doesn't work after 45-60 minutes (wait longer with promethazine), try						
Further oral drug treatment, as above Combine sedatives and antipsychotics, if necessary						
Consider IM treatment if two oral doses fail or sooner if the patient is placing themselves or others at significant risk						



If that doesn't work after 30-60 minutes, try

Further IM drug treatment, as above (including combinations)	
Combinations*	*Never mix 2 drugs in the same syringe
Lorazepam + Haloperidol OR Promethazine + Haloperidol (last resort + ECG)	

If that doesn't work after 30-60 minutes