





Amphetamines: A complex care approach

VDDI Statewide Forum 2016
The Treacy Centre, Parkville

Tuesday 25/10/16, 2.35-3.05

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Nexus Dual Diagnosis Service

Ice - Complex Issues



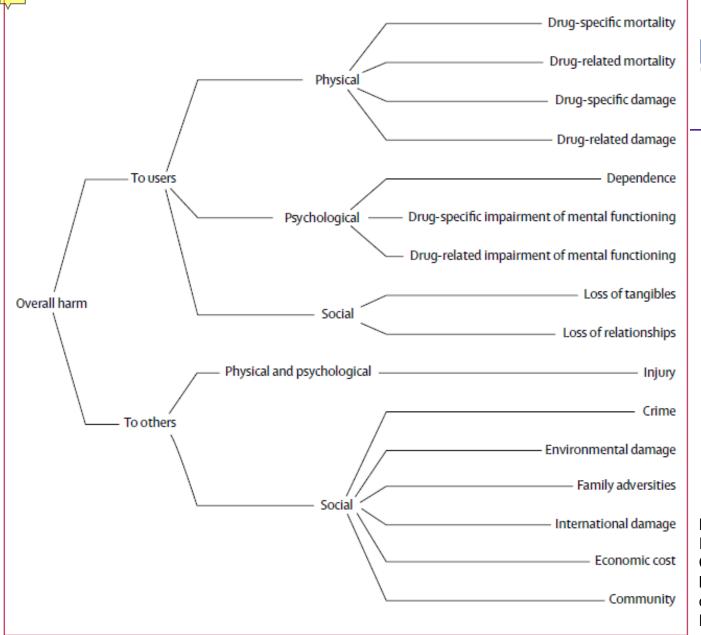
- Acute issues
- Dual diagnosis
- Forensic issues and Legal interventions
- Family inclusive practice
- Responding to trauma
- Cultural safety
- Gender sensitivity and safety

Day/Month/Year Footnote to go here



ACUTE ISSUES

Day/Month/Year Footnote to go here





Harms from drug use

Nutt DJ, King LA, Phillips LD; Independent Scientific Committee on Drugs. Drug harms in the UK: a multicriteria decision analysis. Lancet. 2010 Nov 6;376(9752):1558-65.

Figure 1: Evaluation criteria organised by harms to users and harms to others, and clustered under physical, psychological, and social effects

Day/Month/Year Footnote to go here



Morbidity & Mortality from ATS



- Toxic reactions can occur irrespective of dose, frequency of use, or route of admin.
- Demographics: Mostly male, mid-30s

Non-fatal presentations: Chest pains, palpitations, tachycardia and hypertension most common complaints among methamphetamine users presenting to hospital

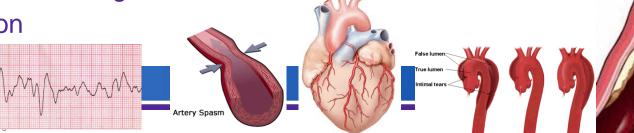
Cause of death: Typically caused by seizures, cardiac arrhythmias, or respiratory failure

 Cardiotoxicity: heavy demands upon the cardiovascular system; can cause myocardial ischaemia and infarction; hypercoagulable state, and macrovascular epicardial coronary spasm; cardiac arrhythmias

 Cerebrovascular accidents: Increases risk of ischaemic and haemorrhagic stroke. Higher associated risk of death after stroke.

Aortic dissection

Day/Month/Year



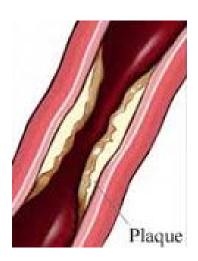


Morbidity & Mortality from ATS



Chronic health effects increasing mortality

- Coronary artery disease: Premature and accelerated development of coronary artery atherosclerosis
- HIV, HCV ↑ transmission risk, and anti-viral medication non-adherence



Darke S, Kaye S, McKetin R, Duflou J. Major physical and psychological harms of methamphetamine use.

Drug Alcohol Rev. 2008 May;27(3):253-62.

Day/Month/Year Footnote to go here





Short-term effects

Euphoria, alertness, increased confidence and wakefulness

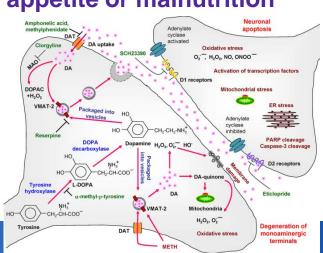
- Sweating, tremors, teeth grinding
- Anxiety or panic
- Agitation, irritability, aggression
- Paranoia and hallucinations (drug-induced psychosis)





Long-term effects

- Depression, anxiety, psychosis, chronic sleep disturbance
- Neurocognitive deficits (ABI):
 - prefrontal cortex (working memory)
 - anterior cingulate (selective attention)
 - temporal lobe (episodic memory, depression)
 - differences in brain structure and function between male and female stimulant users
- Weight loss, dehydration, poor appetite or malnutrition
- Hypertension, renal failure
- Poor dentition, skin picking







GUIDELINES FOR THE ACUTE ASSESSMENT AND MANAGEMENT OF AMPHETAMINE-TYPE STIMULANT INTOXICATION AND TOXICITY

SVHM

Version 1 (2014)

Intoxication

Important questions:

- 1. In the last 24-48hrs, have you used:
- · amphetamines or methamphetamines?
- other stimulants (eg high dose caffeine, cocaine, MDMA, new synthetic stimulants, prescription stimulants)?
- other substances (eg EtOH, GHB, THC, synthetic cannabis, opioids, hallucinogens, solvents, OTC)?
- other medications (especially SSRIs)
- 2. What time did you last use?
- 3. Dose? Route?

Signs/symptoms of intoxication:

- New or worsening mental health symptoms (anxiety, panic, hallucinations, paranoia)
- Alertness, hypervigiliance, impulsivity
- Euphoria, ↑ confidence, excitement
- · Agitation, irritability, anger, hostility
- Psychomotor agitation (pacing, restlessness), repetitive movements, tremor
- Rapid/ pressured speech
- Decreased appetite/need for sleep
- Flushed cheeks, sweating, dry mouth
- · Teeth grinding, jaw clenching
- Dilated pupils or sluggish light reflex
- · Hypersexuality, at risk sexual behaviours
- Hypertension, tachycardia
- · signs of recent physical injury (head injury)
- · Injecting sites for signs of infection

Toxicity (medical emergency)

Presentations of toxicity:

- 1. Acute behavioural disturbance
- 2. Medical complications
- hyperthermia
- · serotonin syndrome (see bottom right)
- electrolyte disturbances (↓Na⁺, ↓K⁺),
 ↓ BSL
- · rhabdomyolysis, renal failure
- · acute cardiac events
- acute cerebrovascular events
- · delirium, seizures, coma, death

Investigations:

- · Full set of physical observations
- Neurological examination including GCS, pupillary response, tone/ power/tremor
- · Finger-Prick Blood Sugar Level
- · Urine Full Ward Test for proteinuria
- · Pathology: FBVEEUC, Mg, LFTs, CK (add troponin if chest pain)

Additional:

- ECG (if chest pain, SOB, SaO₂ dropping, hypertension, or tachycardia)
- CT brain (if altered conscious state, focal neurological signs, severe headache)

Management of Medical Complications

DRABC

- Remain with patient
- · Minimise stimulation in surrounding area
- Explain what is happening to patient and what they can expect (other clinicians arriving)

Requires urgent medical care (+/- Code Blue) if:

- BP ≥ 180/120 mmHg
- · Chest pain, shortness of breath
- Severe headache
- Seizure
- Sudden neurological changes (eg. speech changes or limb weakness, facial droop, gait disturbance)
- Serotonin syndrome/toxicity:
- Temp ≥38°C, flushing, sweating, tachycardia, mydriasis
- ↑ reflexes, shivering, tremor, clonus, myoclonus, ocular clonus, ↑ muscle tone/rigidity
- Altered conscious state (including delirium, confusion, disorientation)

Withdrawal

Withdrawal symptoms can commence within 24 hours of the last dose, peak at day 2-3 after last use and can continue for 2 weeks. Consider polysubstance withdrawal.

Common signs/symptoms of stimulant withdrawal:

- Cravings
- Mood changes including irritability, agitation, low and/or anxious mood, anhedonia, affective instability
- · Psychomotor agitation
- ↑ sleep, vivid dreams; ↑ appetite
- · Poor memory/concentration
- Fatigue, lack of energy, generalised aches/pains

Management:

- · Determine safest environment for withdrawal
- Supportive treatment including diazepam (should be continued for up to two weeks).
- · Mx acute physical/MH issues

**Note a high risk of relapse/overdose during this period.

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GUIDELINES FOR THE MANAGEMENT OF ACUTE BEHAVIOURAL DISTURBANCE DUE TO AMPHETAMINE-TYPE STIMULANT INTOXICATION

STEP 1 - (Arousal levels 2-3)

Mildly aroused, pacing, still willing to talk reasonably.

Moderately aroused, agitated, becoming more vocal, unreasonable and hostile.

ORAL

(Benzodiazepines) Diazepam (peak effect at 1 –1.5 hrs): 5 to 20mg, repeated every 2 to 6 hours, up to a maximum of 120mg in 24 hours

<u>OR</u>

(Antipsychotic) Olanzapine (peak effect at 1 to 3 hrs): 5-10mg repeated if necessary every 2 hours to a maximum of 30mg in 24 hours.

Review after 30-60 minutes, repeat if necessary every 2 hours. If still ineffective, consider Step 2

PRECAUTIONS:

- Lower doses should be considered in the elderly, patients with low body weight, dehydration or no previous exposure to antipsychotic medication.
- Monitor <u>respiratory function</u> when benzodiazepines are administered, especially parentally.
- Monitor postural BP 30 min post-dose.
- Monitor ECG, K & Mq, especially if using high doses of antipsychotics
- Monitor <u>ECG, FBE, U&E, Mq, CK and tro-ponin</u> if using zuclopenthixol acetate

STEP 2 - (Arousal levels 3-4)

Moderately aroused, agitated, becoming more vocal, unreasonable and hostile. Highly aroused, possibly distressed and fearful.

ORAL

(Antipsychotic) Olanzapine (peak effect at 6hrs): 10-20mg wafer repeated if necessary every 2 to 6 hrs up to a maximum of 30mg in 24 hours.

PLUS

(Benzodiazepines) Diazepam (peak effect at 1 –1.5 hrs): 5 to 20mg, repeated every 2 to 6 hours, up to a maximum of 120mg in 24 hours.

Review after 30-60 minutes, repeat if necessary. If still ineffective, consider Step 3

N1 Create opportunity and environment for patient to express fears, frustration, anger, etc. (Ventilation)

N2 Explore with patient what interventions/solutions would assist them to gain control (Redirection)

N3 Assess "time out" opportunity for patient to regain control (5-15min duration) (Time Out)

N4 If clinical situation warrants, patient may require restraint (Restraint)

N5 If required to place client in a safe environment <u>sectu-</u> <u>sion</u> might be considered. Explanation to be given to patient and staff (Sectusion)

The patient should be afforded the opportunity to debrief about the episode, at a reasonable interval.

STEP 3 - (Arousal levels 4-5)

Refusing oral medication, moderately aroused, agitated, becoming more vocal, unreasonable and hostile.

Highly aroused, distressed and fearful; violent toward self, others or property.

INTRAMUSCULAR

(Antipsychotic) Olanzapine (peak effect at 15 to 45 mins): 10mg may repeat every 2 hrs to a max. of 30mg in 24 hrs OR

Droperidol (peak effect at ≤30 mins) 2.5-10 mg IMI, may repeat every 20 mins. to a max. of 20mg in 24 hrs OR

Zuclopenthixol Acetate (onset ≤2h, peak effect ~24h)

Note: Use only if 1º psychotic disorder, high likelihood of recurrent agitation/ aggression, and maximum daily dose of IM olanzapine inadequate.

1st dose 100mg (lower in elderly or small stature).
2nd dose after 48-72 hrs (min. 24 hrs). 3rd dose after 48-72 hrs (min. 24 hrs). Concurrent IM Benzodiazepine (in separate syringe). Avoid giving other IMI antipsychotics.

(Benzodiazepines) Clonazepam (peak effect at 3 hrs): 1-2 mg, may repeat after 2 hrs, then every 4 hrs up to 4mg in 24 hrs. <u>OR</u>, if more rapid but shorter effect is required, consider Midazolam 0.1mg/kg:

ALERTS:

- Vigilantly monitor for signs of airway obstruction, respiratory depression and hypotension (esp. Acuphase)
- EPSEs must be monitored and treated.
- Anticholinergic agents NOT to be used routinely but 'as required' (PRN); Benztropine 2mg IM may be used for acute dystonias (Max 6 mg/24 hrs).
- Combined use of <u>Olanzapine</u> IMI plus a benzodiazepine is potentially dangerous: a gap of 2 HOURS IS REQUIRED BETWEEN THEIR IM USES.
- IM Midazolam should only ever be prescribed by a consultant and special precautions MUST be followed
- Zuclopenthixol acetate should be prescribed as a course, NOT as a PRN. ≤4 IMIs, ≤400mg in 2 wks



Step 1

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- **N2** Explore with patient what interventions/solutions would assist them to gain control (**Redirection**)
- N3 Assess "time out" opportunity for patient to regain control (5-15min duration) (Time Out)
- N4 If clinical situation warrants, patient may require <u>restraint</u> (Restraint)
- **N5** If required to place client in a safe environment <u>seclusion</u> might be considered. Explanation to be given to patient and staff (**Seclusion**)

The patient should be afforded the opportunity to <u>debrief</u> about the episode, at a reasonable interval.

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Stages of Change and Matching Interventions

Stage	Definition	Characteristics	Intervention/Tasks	
Precontemplation	Individual has no intention to change behaviour in the near	May appear unmotivated or resistant	Engage; avoid being judgmental Raise doubt; ↑ awareness of risks/ problems a/w using Brief interventions: educ ⁿ , harm red ⁿ Provide DirectLine no.: 1800 888 236	
	future and may not identify a problem with their behaviour.	Avoid information, discussion or thoughts regarding the behaviour		
		Defensive or sometimes passive		
Contemplation	Individual considering change; ambivalent.	Ambivalent about using/stopping	Motivational interviewing, incl:	
	Although they may be aware of the benefits, they remain focussed on the costs of change.	Dissonance between "good" and "less good" aspects of using	Decisional balance: evoke reasons for change, risks of not changing; facilitate pt to develop discrepancy	
		Might procrastinate		
			Strengthen self-efficacy for change	
Determination / Preparation	Making of decision, making plans. Individuals intend to take steps toward change (eg within the next month). This stage is viewed as a transitional rather than a stable phase.	Planning and intending to change	Offer options and assist in developing strategies to change; may incl. discussion of detox, psychotherapy, pharmacotherapy, lifestyle changes	
Action	Individual is firmly decide and is making change.	Modifications in behaviour	Support implementation of a plan	
	May be considered to be within this stage if these modifications have occurred for less than 6 months.	Commitment (verbalised or demonstrated)	Use skill base; problem solve	
		Open to suggestions	Support self-efficacy	
			Begin to discuss lapses/relapses	
Maintenance	Individual's change in behaviour has been sustained over a	Works to prevent relapse	Identify and use strategies to prevent re-	
	period of time.	Reports higher levels of self-efficacy	lapse; consolidate other activities	
		Consolidates gains achieved in the Action stage	Resolve associated issues/ problems (e.g. mental illness)	
		Less frequently tempted to use	Help set new goals	
Lapse/Relapse	Individual returns to the behaviour, temporarily (lapse) or	Lapses → Action stage	Anticipate and plan for both	
	for a longer period of time (relapse).	Relapses → any other stage	Normalise relapse as a common occur- rence; empathise, encourage	
		Particular feelings of failure/guilt may ap-		
		pear	Assist person to look at why it occurred	
		Both can provide valuable learning oppor- tunities	and make plans to cope with similar situ- ations in the future	
			Assist person to renew motivation and efforts	



GUIDELINES FOR THE LONG-TERM MANAGEMENT OF AMPHETAMINE MISUSE AND DEPENDENCE

Version 1 (2014)

Assessment

- Assess current patterns of substance use
 What, how much, how often (?days off), route, past
 withdrawal or treatment, past abstinence
- 2. Assess for and treat comorbidity
- Other substances
- Mental health (eg psychosis, MDE)
- Physical health (eg infection, dental, cardiac)
- 3. Assess risks
- · Overdose, toxicity
- local/systemic infection incl. blood-borne viruses, cardiac/cerebrovascular events, poor dentition, STIs, poor nutrition, dehydration
- · Accidental injury, violence (incl. sexual)
- Psychosis, SI, worsening of MS
- Poverty, homelessness, relationship breakdown, unemployment
- Legal difficulties (drug driving, illicit activities to fund use, possession/dealing)
- 4. Assess for evidence of dependence

A person may be at higher risk of dependence if they:

- Use crystal methamphetamine ("ice")
- Use frequently and in higher doses
- Inject
- 5. Assess stage of change
- 6. Assess goals of treatment
- cessation vs cutting back
- · Continue or cease other drug use
- Other goals including improving sleep, mental state, physical health, social/occupational function

Management

BRIEF INTERVENTION

- · Harm reduction advice
- Education about stimulants and the potential impact on physical and mental health
- Motivational interviewing matched to stage of change
- Mental and physical health screens (can also be used as part of education)
- Drug and alcohol counselling (may include referral to DoAM or an external agency)

SUPPORTED WITHDRAWAL

MANAGEMENT

OF

DEPENDENCE

The management of amphetamine withdrawal is largely supportive, as there is no specific pharmacotherapy at this time. Although many people can safely be managed at home, consider an environment with increased supports in the setting of:

- the use of, or withdrawal from, multiple substances
- mental health needs requiring immediate management, including. an increased risk of harm to self or others
- physical health needs requiring immediate management
- a lack of a suitable supportive environment in the community

Medication

No specific substitution therapy. Consider mirtazapine, particularly if co-existing anxiety/depression.

Psychosocial interventions

- Motivational Interviewing (MI)
- Cognitive behaviour therapy (CBT)
- Relapse prevention strategies
- Mindfulness-based cognitive therapy (MBCT)
- Acceptance and Commitment therapy (ACT)
- Consider referral to AOD Counselling

Self-help/Peer support groups

- Narcotics Anonymous
- Smart Recovery
- Crystal Meth Anonymous
- New Life Program
- Family Drug Help
- Family Drug Support Australia

Residential Rehabilitation

 DirectLine (1800 888 236) for 24hr information and referral advice for patients, carers, and clinicians.



Assessment

Assess current patterns of substance use

What, how much, how often (?days off), route, past withdrawal or treatment, past abstinence

2. Assess for and treat comorbidity

- Other substances
- Mental health (eg psychosis, MDE)
- Physical health (eg infection, dental, cardiac)

3. Assess risks

- Overdose, toxicity
- local/systemic infection incl. blood-borne viruses, cardiac/cerebrovascular events, poor dentition, STIs, poor nutrition, dehydration
- Accidental injury, violence (incl. sexual)
- Psychosis, SI, worsening of MS
- Poverty, homelessness, relationship breakdown, unemployment
- Legal difficulties (drug driving, illicit activities to fund use, possession/dealing)

4. Assess for evidence of dependence

A person may be at higher risk of dependence if they:

- Use crystal methamphetamine ("ice")
- · Use frequently and in higher doses
- Inject

5. Assess stage of change

6. Assess goals of treatment

- · cessation vs cutting back
- Continue or cease other drug use
- Other goals including improving sleep, mental state, physical health, social/occupational function

Management

Management

RALIA

BRIEF INTERVENTION

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Carer support groups

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DUAL DIAGNOSIS

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Comorbidity of Stimulant-related disorders (DSM-5)



Co-occurrence with other substance use disorders:

- especially those involving CNS depressants, which are often taken to reduce insomnia, nervousness, and other unpleasant side effects (come down)
- Alcohol
- Cannabis
- Alprazolam
- Quetiapine
- GHB/GBL, mephedrone; cocaine, ketamine (MSM population; "chemsex")



Comorbidity of Stimulant-related disorders (DSM-5)



Co-occurrence with other mental disorders

(dual diagnosis)

- Posttraumatic stress disorder
- Antisocial personality disorder
- [?Narcissistic personality traits/vulnerability]
- [??BPD]
- Attention-deficit/Hyperactivity disorder
- Gambling disorder



Reasons for ongoing use of ice by gender – all respondents

Reasons for ongoing use of ice by frequency of use

Reason	Male	Female
I like the feeling of being high	58.0%	55.4%
To party and socialise	55.4%	44.2%
I want to escape reality	32.7%	44.8%
I have issues and thoughts I don't want to deal with	27.7%	42.0%
To feel confident	26.0%	31.6%
I feel like I think more clearly	20.0%	22.3%
All my friends use it	19.4%	20.1%
I used it a bit and now can't stop	17.5%	26.0%
To help me focus at work	15.6%	12.8%

Reason	Daily user	Occasional user
I like the feeling of being high	57.9%	52.5%
I want to escape reality	52.1%	24.0%
I have issues and thoughts I don't want to deal with	51.0%	18.1%
I used it a bit and now can't stop	50.6%	1.8%
To feel confident	38.0%	20.0%
To party and socialise	35.1%	68.7%
All my friends use it	28.0%	11.7%
I feel like I think more clearly	27.7%	13.7%
To help me focus at work	25.1%	4.6%



Comorbidity of Stimulant-related disorders (DSM-5)



Stimulant*-induced disorders in DSM-5:

Psychotic disorders		Depressive disorders		Obsessive- compulsive and related disorders		Sexual dysfunct ^{ns}	Delirium	Neurocog- nitive disorders
I	I/VV	I/VV	I/VV	I/VV	I/VV	I	I	

I: "with onset during [stimulant] intoxication"

W: "with onset during [stimulant] withdrawal"

^{*}Includes amphetamine-type substances, cocaine, and other or unspecified stimulants.



FAMILY INCLUSIVE PRACTICE

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Families, Partners and Carers

Harm to others from SUDs

- FASD
- Neglect CD,ODD, ASPD
- Trauma/PTSD
- Parentification
- Drug/drunk driving→ MVA
- Adolescent violence
- Property loss/damage
- Homelessness
- Drug supply chain, dealing
- Intimate partner violence
- Child abuse → CPS involvement
- Pathological grief (guilt)
- Hostile-dependent relationships

Links, Family dynamics

- Victims
- <u>Predisposing</u>: "Causers" genetic, role modellers, abusers
- Precipitating/Perpetuating:
 "Enablers" (direct/indirect);
 "Rejecters" critical, judgmental, conflictual
- Protective: Supporters (+)

Services

- Family Drug Help
- Family Drug Support
- Odyssey House Family Eclipse Program
- Etc.

For some consumers/clients, their carers/loved ones can form a critical part of their recovery capital when positively engaged; the reverse may also be true.



FORENSIC/LEGAL ISSUES

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Legal instruments

("External motivators")



Severe Substance Dependence Treatment Act 2010

- St Vincent's Hospital (Melb.) / Depaul House
- http://www.health.vic.gov.au/ssdta/

Guardianship and Administration Act 1986

- Victorian Civil and Administrative Tribunal (VCAT) Guardianship List
- https://www.vcat.vic.gov.au/adv/disputes/guardians-administrators

• Children, Youth & Families Act 2005 / Commission for Children & Young People Act 2012

- Department of Health & Human Services (DHHS) Victorian Child Protection Service
- http://www.dhs.vic.gov.au/for-individuals/children,-families-and-young-people/child-protection

Road Safety Act 1986

- VicRoads
- https://www.vicroads.vic.gov.au/licences/medical-conditions-and-driving

Health Practitioner Regulation National Law Act 2009

- Australian Health Practitioner Regulation Agency (AHPRA)
- http://www.ahpra.gov.au/Notifications/Who-can-make-a-notification/Mandatory-notifications.aspx

Mental Health Act 2014

- Victoria's Approved Mental Health Services
- https://www2.health.vic.gov.au/mental-health/practice-and-service-quality/mental-health-act-2014-handbook



Legal instruments



Court involvement (not mutually exclusive)

- Family Violence Intervention Orders
- Diversion programs
- Community Corrections Orders
- Custodial sentences
- Parole Orders

Specialist Courts & Court Support Services

- Victorian Drug Court (Dandenong only): Drug Treatment Orders
- Court Referral & Evaluation for Drug Intervention & Treatment Program (CREDIT)
 Bail Support Program
- Court Integrated Services Program (CISP)

Community Offenders Advice and Treatment Service (COATS): via diversion, CCOs, Parole Orders, CISP and Credit Bail.



Financial measures/ Loss prevention



Control the money flow \rightarrow Control the drug flow!

- Intervening for a **gambling disorder** usually more urgent than with **substance use disorders. See:** http://www.money-school.net/tips_gambling.html
- Family members must not give money for drugs / bail them out
- (Part of) Centrelink payments sent to passbook account, Xmas club acct or carer's bank account
- Restrict access to ATM cards
- Close credit card accounts
- Administration orders
- Patients can circumvent these measures by various means, e.g. dealing drugs.

Legal instruments



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- http://www.health.vic.gov.au/ssdta/

Guardianship and Administration Act 1986

- Victorian Civil and Administrative Tribunal (VCAT) Guardianship List
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Children, Youth & Families Act 2005 / Commission for Children & Young People Act 2012

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Legal instruments

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Specialist Courts & Court Support Services

- Court Referral & Evaluation for Drug Intervention & Treatment Program (CREDIT) Bail Support Program
- Court Integrated Services Program (CISP)
 - https://www.magistratescourt.vic.gov.au/sites/default/files/Default/Guide%20to%20SCCSS%20-%202%20June%202014%20%28final%20version%29.pdf
- Victorian Drug Court (Dandenong only): Drug Treatment Orders

Community Offenders Advice and Treatment Service (COATS): via diversion, CCOs, Parole Orders, CISP and Credit Bail.







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