

DUAL DIAGNOSIS

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(w/ some slides from Dr. Bob King, with permission)

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Consensus Guideline #25

Input and assistance from adults with DD and their caregivers are vital for a shared understanding of the basis of problem behaviours, emotional disturbances, and psychiatric disorders, and for effectively developing and implementing treatment and interventions.

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People with Intellectual & Developmental Disabilities (PWIDD)

- 1-3% of population
 - 275,000 in Ontario
- 90% in mild range
- < 50% have known etiology (DS, FXS)</p>
 - Advances in genetics
- 38% also have a mental health disorder
- Increasingly aging

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	Case presentation		
Ideas?			
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	Case study		
D/E:			
Febrile			
With pharyngeal co	ongestion		
Mild bilateral tonsil			
A provisional diagn	osis of retropharyngeal		
abscess was made	,		
& X-rays RX'ed			
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	Case presentation		
	case presentation		
deas?			
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GERD & Constipation

- Heartburn during or after meals, or when bending over or laying down
- · Hiatal hernia
- Regurgitation, cough, hoarse voice also S/S
- Ulcers cause pain in between meals or can wake you from sleep
- N BM pattern: 3-20X/week!
- Check type (Bristol) & look for distension (abd circ), loss of appetite or refusal to eat

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RCN Document

"Health problems might be accompanied by unusual signs and symptoms, for example someone with severe learning disabilities might demonstrate discomfort by self-injuring."

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Challenging Behaviors

- SIB
- Aggression
- Refusals
- · Withdrawal or irritability
- Yelling
- "Non-compliance": changes in sleep pattern, appetite, or activity level

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Pain Assessment *

Indicators of pain:

- · SIB or aggression
- · Refusals
- · Withdrawal or irritability
- Yelling
- "Non-compliance": changes in sleep pattern, appetite, or activity level
- Denial, inability to communicate or high pain tolerance?

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Things that make you say Hmmm...

- Prevalence of mental illness in individuals with developmental disabilities is high.
- Use of psychiatric medication has been reported as approaching 26-40% in community residential placements and 35-50% in institutions in North America.
- Aggression, self-injurious behaviour, over activity, and sleep disturbances are all common.

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Mental health concerns in persons with MR/DD...

- · Difficult to diagnose with accuracy
- Prevalence higher than in the general population
- 2-3 X higher (Dosen et Day, 2001)

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Things that make you say	
Hmmm	
ence	
Approximately 1% of general population is developmentally disabled (Ontario - 100,000; Kentucky-??)	
At least 30% of the developmentally disabled copulation is dually diagnosed (Ontario - 30,000, Kentucky-??)	
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Things that make you say	
Things that make you say Hmmm	
Things that make you say Hmmm Behavioural changes are often linked to underlying cognitive (thinking) changes, and mood changes occurring in the context of:	
Things that make you say	

Case presentation Ideas? Community-networks.ca



Medications: Polypharmacy

- 1. Medication reconciliation:
- 2. Interview with patient or a caregiver
- 3. Medication vials or blister packs
- 4. Current medication list (i.e., from the pharmacy or provincial records)
- 5. Warfarin/coumadin, insulin, digoxin!
- 6. Anticholinergics!
- 7. Tranquilizers and other sedating Rx: risk of FALLS
- 8. Bisoprolol & Bisacodyl!
- 9. Pharmacokinetics in the elderly...

www.ismp-canada.org/beers_list/#l=tab1

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Anticholinergic Side Effects

- Confusion
- · Blurry vision
- · Nasal congestion
- Dry mouth
- · Urinary retention
- Constipation



Caution: antipsychotics, older antidepressants

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Pharmacology in the Elderly

Determinant	Effect of Aging	Clinical Implications	
Absorption	Increased gastric emptying time	Little	
Distribution	Increased body fat	Decreased elimination of fat-soluble drugs	
Distribution	Decreased body water	Increased effect of water- soluble drugs	
Protein Binding	Decreased serum albumin	Increased free fractions of some drugs leading to toxicity	

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Determinant	Effect of Aging	Clinical Implications	
Hepatic Metabolism and Clearance	Decreased oxidative metabolism	Decreased clearance of most drugs	
Renal Metabolism and Clearance	Decreased renal blood flow	Decreased clearance of water-soluble drugs	
End-organ sensitivity	Increased	Increased effects at lower doses	

Reduce daily dosage for elderly!

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Medications

- Safe storage
- · Safe administration, limit errors
- Name & photos well-indicated
- Clear & precise documentation :
 - Regular Rx
 - -PRNs
- Effects of the PRNs well-documented
- Observational Pain checklist
- Medication history & regular Rx review

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Metabolism

- Hepatic enzymes = Cytochrome P450 system (CYP-450) (about 30 different enzymes).
- Drugs metabolized by an enzyme are substrates of that enzyme
- Possible drug/metabolite interactions:
 - Competition: substrates compete for same enzyme (2nd substrate can be less 'effective')
 - Inhibition: blocking enzyme activity (may cause toxicity)
 - Induction: accelerated metabolism of drugs or their substrates (decreases drug effect as it is metabolized quicker & then eliminated, ex. smoking & clozaril)

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Case presentation	
Ideas?	
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Dontal problems	
Dental problems	
 Most common medical concern in persons with I/DD! Australian study: 86 % frequency! Why is risk of dental caries so high? Inadequate oral hygiene! Snacks rich in sugar & carbohydrates lower pH Lack of saliva, or thick saliva that is unable to neutralize the acidity Less fluoride available for remineralisation 	
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The Usual Suspects	
- Dental inquire (cost)	
Dental issues (up to 86%!)(7 X more in DD!)	
Vision problems (40%-59%)	
Hearing problems (33-40%) Operation (1997)	
• Constipation (up to 70%!)	
Reflux (up to 50%!)H. Pylori infection (60-90%!)	
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Case presentation	
Ideas?	
•	
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More Usual Suspects	
Epilepsy (33-50%)Thyroid disease (12%)	
Obesity-related illness: HTN, Diabetes, etc.Mental health issues (14-67%)	
(severe-profound MR: 50%; mild-moderate MR: 20-25%)	
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Case presentation	
ldeas?	
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		Agitation
 Endocrine di Thyroid Hypoglyce Neurological Increased Epilepsy Side effects of Psychiatric d 	emia I disorders: I intracranial pressure (ICP) of Rx	
		nmunity-networks.ca
<u>پ</u> د	changes in appeti	te & weight
	dism nyroidism es/tumors/cancer elated to intake, retention,	absorption, or
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Ideas? •		
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PWS

- T°- regulation impaired
- · Gag reflex impaired
- Decreased pain sensitivity

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Prader-Willi

- Obesity-related illness:
 - Diabetes– Sleep apnea
 - Pica– Hyperlipidemia
 - HTN Cellulitis (skin-picking)
- · Osteoporosis, scoliosis, kyphosis
- · Decreased vomiting
- Thick viscous saliva: increased caries

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PWS: monitoring

- Developmental & educational assessment with speech therapy assessment
- Assess males for cryptorchidism
- Strabismus in infants & children
- X-rays to r/o scoliosis
- Bone density to r/o osteoporosis
 - (may need Ca+ supplementation)
- Annual BMI
- HgbA1C for those with significant obesity
- Sleep study to r/o sleep apnea
- Psych assessment to r/o OCD & psychosis: hoarding, skin-picking & other symptoms

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Behavioral phenotype

- · Prader-Willi Syndrome
- · "Temper tantrums"
- · Impulsivity
- «Stubbornness» (rigidity?)
- «Skin-picking»
- Mood disorders & psychosis
- OCD, behavioral rituals: 24-49 %

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Consensus Guideline #22

- Despite the absence of an evidence base, psychotropic medications are regularly used to manage problem behaviours among adults with DD.
- Antipsychotic drugs should no longer be regarded as an acceptable routine treatment of problem behaviours in adults with DD.

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Consensus Guideline #27

 Having excluded physical, emotional, and environmental contributors to the behaviours of concern, a trial of medication appropriate to the patient's symptoms might be considered.

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Psychotropic Medication Classes

Antipsychotics

Target psychomotor agitation & aggressive behaviour, particularly in the presence of psychotic symptoms (hallucinations, delusions, and disorganized behaviour)

Traditional

Haloperidol (Haldol), Chlorpromazine (Thorazine/Largactil), Methotrimeprazine (Nozinan), Trifluoperazine (Stelazine), Loxapine (Loxapac)

Atypical

Clozapine (Clozaril), Risperidone (Risperdal), Paliperidone (Invega), Olanzapine (Zyprexa), Quetiapine (Seroquel), Ziprasidone (Zeldox/Geodon), Aripiprazole (Abilify)

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Atypical Antipsychotic Medication

Risperidone (Risperdal)

Paliperidone (Invega)

Clozapine (Clozaril)

Olanzapine (Zyprexa)

Quetiapine (Seroquel)

Ziprasidone(Geodon)

Aripiprazole (Abilify)



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Acute Dystonia

Clinical Signs/Symptoms						
Motor Symptoms	Psychological Symptoms	Differential Diagnosis	Risk			
Briefly sustained or fixed abnormal movement e.g., torticollis (30%) tongue (25%) trismus/jaw (14.6%) oculogyric crisis (6%)	• fear • anxiety	malingering seizure catatonia	high potency first- generation antipsychotics (FGAP) young males first exposure to FGAP			

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<u> </u>		Case pre	esentation
		Calor pilo	
leas?			
		comn	nunity-networks.ca
.0.			
			Akathisia
			Mathisia
Clinical Signs	/Symptoms		
Motor Symptoms	Psychological Symptoms	Differential Diagnosis	Risk
Foot shifting Pacing	• Agitation • Restlessness	Psychotic exacerbation	High potency first-generation
• Rocking	• Decreased concentration		antipsychotics (FGAP)
			• Elderly • Female
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<u></u>			
		Park	insonism
Clinical Signs	Symptome		
	Psychological	Differential	Dial.
• Tremor	Symptoms -Poor	Diagnosis - Depression	• High potency
Bradykinesia Rigidity	concentration attention	Negative symptoms of	first-generation antipsychotics
Akinesia (masked facies,	•Bradyphrenia	psychosis	(FGAP) • Elderly
decreased arm swing)			Female Neurological
			disorders
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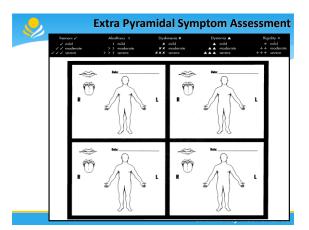
Tardive Dyskinesia (TD)

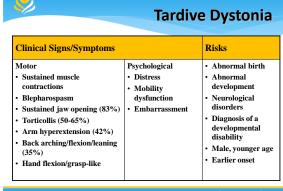
Diagnostic Criteria:

- History of three (3) months total cumulative neuroleptic use
- Dyskinesia of lingual-facial-buccal muscle (most common), upper face, limb, trunk
- Movements which are repetitive, stereotyped in appearance and distribution
- Most common is choreoathetoid movements (classical TD)
- · Gait is usually not affected

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TD Risk Factors Variable Factor **Determinant of Increased** Risk • Age Patient • Increased risk w/ age (>55) Characteristics • Gender Female (slightly higher) • Diagnosis Affective disorder • Previous EPS · Risk 2 to 3 times higher Risk 50-100% higher Diabetes Drug · Type of neuroleptic · Typical neuroleptics have Characteristics similar liability Positive correlation with total · Dose/Duration drug exposure · Continuous vs. Higher with intermittent intermittent treatment community-networks.ca





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Other side effects

- Sedation, gait disturbance, orthostatic hypotension => increased risk of falls
- Metabolic issues: diabetes, hyperlipidemia, abdominal girth
- · Anticholinergic side effects

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Anticholinergic Side Effects

- · Blurry vision
- · Nasal congestion
- · Dry mouth
- · Urinary retention
- · Constipation*

(*deaths with Clozapine)



Rx: tricyclic antidepressants, antipsychotics

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NMS recall: F-E-V-E-R

Cause: d/t blockage of dopamine receptor S/S:

- Fever: hyperthermia & diaphoresis
- Encephalopathy: abrupt onset confusion, stupor
- Vital sign instability: BP unstable, tachycardia
- Enzyme elevation: CPK (creatinine phosphokinase)
- Rigidity: "lead pipe" rigidity (generalized)

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Case presentation

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VCFS/22q-

- ENT: Cleft palate, otitis, deafness
- Visual problems: cataracts, tortuousity of retinal vessels (30%)
- Cardiovascular abnormalities (85%): R aortic arch (52%), Tetralogy of Fallot (21%), ASD, VSD (62%)
- Immune system problems (*vaccines not effective) (r/t thymus)
- Hyper/hypothyroidism
- · Scoliosis, arthritis
- Renal abnormalities: absent/dysplastic/multicystic kidneys, hypospadius, reflux, obstructive uropathy
- Mental health: Bipolar disorder, schizophrenia, anxiety

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Behavioral phenotype

- · 22q-Syndrome
- 25 X mental health issues:

ADHD, anxiety, mood dx (depression & bipolar disorder), psychosis (schizophrenia)

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DSM-IV

- Bipolar disorder
 - Manic episodes or mixed + major depressive episodes
 - Cyclothymia:
 - Chronic mood disturbance > 2 yrs
 - Hypomania alternating w/ dysthymic depression
 - NO severe impairment in social or occupational function, NO ψ S/S (delusions)

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Diagnostic criteria DM-ID for manic episode

- Criteria A: a distinct period of abnormally persistently elevated, expansive or irritable mood lasting at least a week
- Observed behaviors: inappropriate laughing or singing, excessively giddy or silly, intrusive, excessive smiling in ways that are not appropriate to the social context. (Elated mood may be alternating with irritable mood.)

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Table of symptoms, DM-ID

	Mania	Depression	ADHD	Anxiety
Elated mood	+	=	Decreased frustration	Agitation
Irritability	+	+	Tolerance	+
Distractibility	+	Poor concentration	+	Difficulty concentrating
Flight of ideas	+	-	+	-
Grandiosity	+	-	No?	-
Poor Judgement / impulsivity	+	-	+	-
Diminished sleep	+	-+	Difficulty falling asleep	Insomnia early in night

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Interventions

- Avoid over-stimulating or provoking the person
- · Monitor symptoms(severity, efficacy of Tx, relapses)
- Encourage calming activities, regular diet & exercise
- · Provide finger foods
- · Protect from others (risk of aggression)
- Staff education in therapeutic approaches
- Medications: mood stabilizers, (antipsychotics?, antidepresants?)
- NICE Guidelines (UK) 2006

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Bipolar Mood Chart

Client's Name:

Month

Each day, assess the client's mood state for that day by circling the appropriate mood scale item. Your rating should be based on observations for the entire day and evening. If the client is both monic and depressed during the day, carry out separate rotings based upon 12 hour time periods. When completing the log, please use the following anchor points for your mood rating.

+3 = markedly manic +2 = moderately manic +1 = mildly manic 0 = normal mood for the day

-1 = mildly depressed -2 = moderately depressed -3 = markedly depressed

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Hypomania/Mania **DSM-IV Diagnostic Criteria Behavioral Equivalents**

st 3 symptoms must be present if patient has euphoric mood. Four symptoms must be present if patient only has irritable mood.

DSM - IV Criteria Observed Equivalents in persons with DD

Mood State
• Euphoric/elevated/irritable mood (no minimum duration necessary)

- Symptom Criteria
 Inflated self esteem/grandiosity
 Decreased need for sleep (3 hrs)
 More talkative/pressured speech

- Flight of ideas/racing thoughts
 Distractibility
 Increased goal directed activity/psychomotor agitation
 Excessive involvement in
- pleasurable activities
- Boisterousness or excitement may be the predominant mood state. Self-injury may be associated with irritability
- Altered estimation of adaptive skills
- Shortened sleep duration
 Increased frequency of vocalization
 irrespective of patients usable speech

- Disorganized speech
 Decrease in workshop performance
 Increase in aggression, self-injurious behaviour
- Teasing behaviour, fondling others, publicly masturbating

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Antidepressants in Bipolar Depression: Hazardous Situations

- · Prior antidepressant-induced mania
- · Rapid cycling
- · Mixed depression
- · Post-manic depression
- · Low illness-awareness
- · Substance abuse
- · Anxious depression

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Definitions of Mood-Stabilizer:

- · Substance which is effective for one pole without inducing the other
- · Substance which is effective for both poles of the illness
- · Substance which is effective for both poles of the illness and for prophylaxis of recurrences

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Psychotropic Medication Classes

Mood Stabilizers

- · Lithium Carbonate
- Carbamazepine (Tegretol)
- Valproic Acid (Epival, Depakene)
- · Lamotrigine (Lamictal)
- · Topiramate (Topamax)

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Problems of Current Mood Stabilizers

- · Limited efficacy
- Toxicity
- Side effects: renal, thyroid, hematological, hepatic
- Monitoring
- Interactions
- Teratogeny
- Weight gain
- Poor compliance
- Refractoriness



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Lithium

- Therapeutic Range
 - 0.7 1.2 mEq/L
- Clearance predominantly through kidneys (95%)
- · Dosing adjusted based on renal function
 - Individuals with chronic renal insufficiency must be closely monitored
 - Reabsorption of lithium is increased and toxicity is more likely in patients who are hyponatremic or volume depleted (ex. vomiting, diarrhea, diuretics)
- Half life
 - 12 27 hours
 - Increases to 36 hours in elderly persons (**renal function)
 - May be considered longer with long-term lithium use (up to 58 hours after one year of therapy)

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Lithium Toxicity

- Closely related to concentration of lithium in the blood
 - * Serum concentrations in excess of 2mmol/L
- Preceded by appearance/aggravation of:
 - Sluggishness, drowsiness, lethargy, coarse hand tremor or muscle twitching, loss of appetite, vomiting and diarrhea
 - **repeated episodes of lithium toxicity can cause kidney damage

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Lithium Toxicity

- · Treatment:
 - D/C lithium therapy
 - Support resp & cardiac functions
 - Depending on mental status, use ipecac syrup or gastric lavage
 - Follow with charcoal and saline cathartic if multiple ingestion
 - Restore fluid and electrolyte balance
 - * Hemodialysis is treatment of choice when above measures fail

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Important considerations:

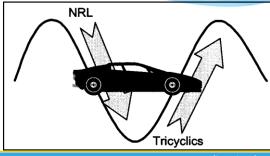
- 30-50% of persons with DD have epilepsy, so they may be receiving AEDs (Devinsky, 2002)
- Persons with DD may be 3-4 X more likely to have a psychiatric illness (Hellings, 1999)
- Persons with DD are more prone to drug side effects & are also often unable to articulate the effects of the drugs
- 40-60% of persons in general population show inadequate response to mood stabilizer Tx alone & require additional Rx (antipsychotics) (Hellings, 1999)

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	Bipolar Mood Chart			
Client's Name:	Month:			
Each day, assess the client's mood state for that day by circling the appropriate mood scale item. Your rating should be based on observations for the entire day and evening. If the client is both manic and depressed during the day, carry out separate ratings based upon 12 hour time periods. When completing the log, please use the following anchor points for your mood rating.				
+3 = markedly manic +2	= moderately manic +1 = mildly manic 0 = normal mood for the day			
-1 = mildly depressed -2	= moderately depressed -3 = markedly depressed			
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+3 3 3 3 3	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3			
+2 2 2 2 2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			
+1 1 1 1 1	11111111111111111111111			
00000	00000000000000000000			
-1 1 1 1 1	1111111111111111111111			
-2 2 2 2 2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			
-33333	3333333333333333333			
Developed by Hu	rley & Sovner community-networks.ca			

%

Effect of Acute Treatments in the Course of Bipolar Disorder



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Antidepressants in Bipolar Depression

- DO NOT use in monotherapy
- Combine antidepressant with 1 or more mood stabilizers
- Try first SSRI or buproprion (wellbutrin)
- Beware of noradrenergic drugs and tricyclics
- Discontinue add-on SSRI after response (3-6 months) or may flip into (hypo)mania
- Consider combination with atypical antipsychotics

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	Classic & Newer AEDS
Classic AEDs • Phenobarbital (PB) • Ethosuximide (Zarontin®) • Clonazepam (Rivotril®) -> benzo • Phenytoin (Dilantin®) N/A in Canada yet: • Tiagabine (Gabitril®) • Zonisamide (Zonegran®) Rufinamide (Banzel®) (used for LGS) • Lacosamide (Vimpat®)	Newer AEDs Primidone (Mysoline*) -> PB Clobazam (Frisium*) -> benzo Nitrazepam (Mogodon*) -> benzo Carbamazepine (Tegretol*) (CBZ) Divalproex (DVA)/Valproate/Valproic Acid (Epival*/Depakene*) VPA >GI SE Levetiracetam (Keppra*) Felbamate (Felbatol*) D/C d/t liver probs Vigabatrin (Sabril*) **Bertied* d/t vision probs Oxcarbazepine (Trileptal*) -> CBZ Gabapentin (Neurontin) -> gaba Lamotrigine (Lamictal*) -> no P450! Topiramate (Topamax*) Pregabalin (Lyrica*) -> gaba community-networks.ca
<u> </u>	Drug Levels
• Carbamazepine (17-54 µmol/L 4-12 mcg/ml	(CBZ) • Phenytoin (PHT) 40-80 μmol/L 10-20 mcg/ml
• Phenobarbitol (P 65-150 μmol/L 20-40 mcg/ml	PB) • Valproic acid (VPA) 350-800 μmol/L 50-115 mcg/ml
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>	Case presentation
Ideas?	
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Down Syndrome

- Hypothyroidism
- Sleep apnea
- Depression
- Alzheimer's (>40)
- Epilepsy
- · Atlanto-axial instability
- Degenerative disc disease of C-spine
- Dental concerns: (gingivitis,
- Lymphoblastic leukemia

- · Celiac disease
- Obesity
- Congenital heart defects
- · Mitral valve prolapse
- · Hearing deficits
- · Higher risk AOM/OE
- · Higher risk pneumonia
- Skin conditions (eczema, dry skin)
- Visual problems: (strabismus, keratoconus, cataracts)

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SDAT in DS

Age Range: Range of Reported Incidence of Alzheimer Disease Among Persons with Down Syndrome

40 – 49 years old: 10 - 25%
50 – 59 years old: 20 - 50%
Over 60 years old: 60 - 75%

*However, SDAT not in all persons w/ DS!

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YouTube: Garth Home Society

- In Victoria, B.C.
- http://www.youtube.com/watch?v=k_x9 zJyQzu8

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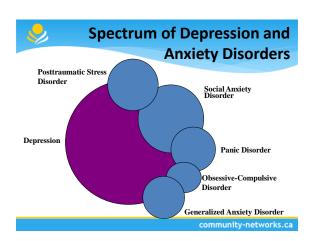
DS & Az	
• DVD clip => 7:22-8:50	
 New resource for screening: http://aadmd.org/ntg/screening 	
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Case presentation	
Ideas?	
•	
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Sehavioral phenotype	
Down SyndromeAutism: 10 %	
Depression: 6-11 %Bipolar disorder: rare	
Early onset dementia, approx 30 yrs before the general population	
Overall rate of Psych dx: 11-19 %	
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Recognizing dual diagnosis

Genetic syndromes and dual diagnosis

					DEPRESSION	i,
			ANXIETY		MANIA,	
		SELF-	DISORDER,	ALZHEIMER'S	BIPOLAR	
SYNDROME	AGGRESSION	INJURY	PHOBIAS	DISEASE	DISORDER	SCHIZOPHRENIA
5P	X	X				
Prader-Willi	X	×	X		X	
William	X		X		X	
Smith-Mageni	s X	×				
Lesch-Nyhan		×				
Turner			X			
Fragile X		×	X		X	
22q11 deletion						
(velocardiofaci	ial)				×	×
Down			×	×	×	
Cornelia de La	nge	×				







DSM-IV

Mood disorders

- Major depressive disorder
 - For 2 weeks + 4 other symptoms
- Dysthymia
 - Depressive mood most of the time
 - For > 2 years
 - Does not meet criteria for major depression

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S/S of Depression

- · Depressed mood
- Anhedonia
- Alterations in eating, sleeping & activity levels
- Feelings of worthlessness or guilt
- Difficulty with memory, concentration & decision-making
- Recurrent thoughts of death & self-harm



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DSM-IV Criteria for Major Depression and Behavioral Equivalents in Individuals with Developmental Disabilities

Five or more of the following symptoms must be present for a minimum of 2 weeks Symptoms 1 or 2 must be one of the five

DSM IV Criteria	Observed Equivalents in Individuals with Developmental Disabilities	Objective Behaviors Which Might be Measured
Depressed Mood, irritable mood in children or adolescents	Apathetic facial expression with lack of emotional reactivity, irritability, somatic complaints	Measure rates of smiling response to preferred activities, crying episodes, somatic complaints
Generalized decrease in interest or pleasure by self-report or observed apathy	Withdrawal, lack of reinforcers, refusal to participate in previously favored activities	Measure time spent in room, etc.
Significant decrease in appetite or weight loss (5% body weight in one month) or significant increase in appetite or weight gain (5% body weight in one month)	Significant increase or decrease in weight (5% in one month) Significant increase or decrease in appetite (daily)	Measure meal refusals, changes in weight, food stealing or hoarding
4) Insomnia or hypersomnia	Change in total sleep time	Use sleep chart to record sleep

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DSM-IV Criteria for Major Depression and Behavioral Equivalents Individuals with Developmental Disabilitie					
DSM IV Criteria	Observed Equivalents in Individuals with Developmental Disabilities	Objective Behaviors Which Might be Measured			
5)Psychomotor activity or retardation	Agitation may present SIB or aggression, pacing, running away, restlessness, inability to complete ADLs	Time spent in bed, spontaneous verbalization, pacing			
6) Fatigue or loss of energy	Retardation may represent as decreased energy, passivity	Napping at workplace, sleep charts			
Feelings of worthlessness/ inappropriate guilt	Statements such as, "I'm Retarded", "nobody likes me"	Requires expressive language symptoms are present			
Decreased concentration/ indecisiveness/ diminished ability to think	Change in workplace performance, regression of skills	Use workplace performance data			
Recurrent thought of death/ suicidal ideation	Perseveration on the deaths of family members and friends, preoccupation with funerals, deliberately potentially lethal acts, SIB	Requires expressive language determine if symptoms are present			



Depression: pearls

- COMMON MEDICAL PROBLEMS may provoke depressive symptoms, for example, UTIs, AOMs, cellulitis, constipation, GERD, migraines, & SE of Rx
- The impact of stressful life events such as staffing changes might provoke an intense reaction!

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Interventions

- SUICIDAL PRECAUTIONS
- Symptom Surveillance (severity, efficacy of Tx, recurrence)
- Encourage participation in ADLs (w/ assistance & encourage autonomy)
- · Regular physical activity
- CBT (thoughts +)
- · Staff training/education
- Medications: antidepressants (SSRIs)
- NICE guidelines,2009

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Psychotropic Medication Classes

Antidepressants

(Tx: Panic disorder, OCD, social phobia, bulimia)
•Selective serotonin reuptake inhibitors

Fluoxetine (Prozac), paroxetine (Paxil), sertraline (Zoloft), fluvoxamine (Luvox), citalopram (Celexa)

Novel antidepressants

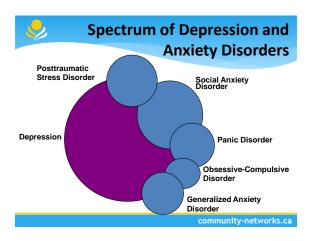
Venlafaxine (Effexor), Nefazodone (Serzone),
Moclobemide (Manerix), Bupropion (Wellbutrin)

•Tricyclic antidepressants

Amitriptyline (Elavil), Imipramine (Tofranil), Sinequan (Doxepin), Clomipramine (Anafranil)

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Adverse Effects of Neurotransmitter Activity and Receptor Binding Sedation/drowsiness Weight gain Psychomotor activation Psychosis Sexual dysfunction Activating side effects Activating side effects Blurred vision Dry mouth Constipation Sinus tachycardia Urinary retention Memory dysfunction Alpha, block Priapism Apha, block Priapism Postural hypotension Dizziness Reflex tachycardia Tremor





SSRIs, SNRIs, etc

Antidepressants

Selective serotonin reuptake inhibitors

GAD

Panic disorder

OCD

Social phobia

Bulimia



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SSRIs, SNRIs, etc

Novel antidepressants

Desvenlafaxine (Pristiq), Venlafaxine (Effexor),

Duloxetine (Cymbalta)

Buproprion (Wellbutrin)

•Tricyclic antidepressants

Amitriptyline (Elavil), Imipramine (Tofranil), Sinequan (Doxepin), Clomipramine (Anafranil)

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Anticholinergic Side Effects

- · Blurry vision
- Nasal congestion
- Dry mouth
- Urinary retention
- Constipation*

(*deaths with Clozapine)



Rx: tricyclic antidepressants, antipsychotics

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>
Seroti - Wit - S/S inci twi disc dea Witho - Wit - S/S irrit nig crai

Serotonin Syndrome & Discontinuation Syndrome

- · Serotonin syndrome
 - Within 24 hours of start or increase (or additional Rx)
 - S/S: nausea, diarrhea, chills, sweating, dizziness, fever, increased BP, palpitations, increased muscle tone & twitching, tremor, hyperreflexia, restlessness, agitation, disorientation, confusion (muscle breakdown, coma & death!)
- Withdrawal/discontinuation syndrome
 - Within 1-7 days of abrupt D/C & for up to 3 weeks!
 - S/S: asthenia, dizziness, H/A, insomnia, tinnitus, N & V, irritability, disorientation, confusion, agitation, nightmares/vivid dreams, electric-shock sensations, chills, cramps, diarrhea

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	Case presentation
Ideas?	

Menopause in I/DD

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- End of menstruations may uncover feelings of grief & loss of not ever having children
- S/S can include: night sweats, hot flashes, mood swings, insomnia, vaginal mucosal changes, increased risk of UTIs, muscle aches & pains, H/A, dry mouth or eyes, dry itchy skin, poor memory & concentration

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Case presentation	
Ideas?	
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Community networks:	
Fragile X	
 Tactile sensitivity & defensiveness Hyperextensible joints, flat feet Recurrent otitis in childhood Strabismus (30-56%) Scoliosis, hernias Epilepsy (13% -50%) Mitral valve prolapse (55%), cardiac murmurs, hypertension Hypotonia, poor muscle tone in childhood Shyness, anxiety, ADHD 	
> FXS: monitoring	
• GERD	
 Connective tissue: pes planus, hyperflexibility 	
Echocardiogam	
Vision & hearing assessments	
(ophthalmology & ENT) • Speech & language, OT, PT	
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Addendum – autism and Sensory OVERLOAD

See YouTube video made by someone with Autism at:

http://www.youtube.com/watch?v=BPDTEuotHe0

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Behavioral phenotype

- FragileX Syndrome
- Males
 - Autism (50 %)
 - ADHD
 - Social Anxiety
 - SIB (58 %)
- Females
 - Social Anxiety
 - Depression
 - Autism (20 %)
 - SIB (17 %)

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Sensory Issues

- Tactile hyposensitivity & proprioception
 - Deep pressure, squeeze machine, weighted vest
- · Tactile hypersensitivity
 - -Touch (clothes, tags, soft touch, etc)
- Altered sensory perceptions (synaesthesia ex: colored hearing)

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Perception is Reality!

"There are no bizarre behaviors – more accurately, there are human responses that are not fully understood or appreciated."

Carol Gray, 2007

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Sensory Interventions

- Sensory integration / sensory diet
 - Compressions (trampoline)
 - -Swing use
 - -Snoezelen room
- Music therapy

A. Eustace, OT &
R White MT Nfld

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Snoezelen Room

- Combines lights, bubbles, colours, soothing music and ambient sounds, textures, aroma, and vibration to create a multi-sensory environment that is both relaxing and stimulating
- Main goal is to help calm the individual & promote relaxation by allowing them to enjoy the sensory stimulation
- Used with persons with dementia but also with persons with autism & developmental disabilities

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>	9	

Resources

- Building Bridges through Sensory Integration by Ellen Yack, et al. (\$36.95)
- Ocean Drum
- Tangle
- Cool Bananas CD (\$24.95)

A. Eustace, OT & R. White, MT, Nfld

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Psychiatric concerns in ASD

- Anxiety
- Depression
- Risk of suicide?
- SIB
- · OCD?
- Aggression & behavioural outbursts or meltdowns

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Resources

- Social scripts, social stories by Carol Gray
- The Incredible 5-point Scale by Kari Dunn Buron & Mitzi Curtis (\$24.95)
- The 5-point Scale & Anxiety Curve Poster by Kari Dunn Buron (\$29.95)
- · Relaxation & breathing exercises
- (Geneva Center)

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DSM-IV

· Anxiety disorders

- Panic attacks
 - Intense anxiety
- Agoraphobia
 - · Anxiety related to situations or avoiding situations
- Phobias
 - · Anxiety provoked by certain objects
- Obsessive-compulsive disorder
 - Obsessions
 - Compulsions (rituals that decrease anxiety)

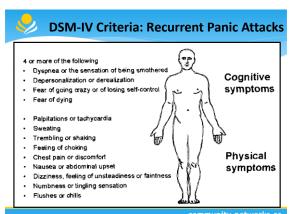
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PANIC DISORDER

- Presence or hx of recurrent, unexpected panic attacks that do not have underlying chemical or medical etiology
- Involves extreme apprehension or fear, associated with feelings of impending doom or terror
- Panic attack: starts abruptly & reaches peak within 10 minutes
- Often think they're having MI (s/s similar: SOB, RSCP, 'doom', sweating, tachycardia, shaking, nausea, dizziness, fear of going crazy/dying, chills/hot flashes, paresthesias, choking/smothering feeling)

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DSM IV-R CRITERIA

Both:

- Recurrent panic attacks
- At least one of the attack followed by 1 month of persistant concern of another attack, worry about going 'crazy'/having MI, losing control
- Absence or presence of agoraphobia (fear of being alone in open or public places where escape might be difficult, so much so that the person may not leave home)
- Panic attacks not due to Rx/ETOH, or a medical or mental disorder (phobia/PTSD)

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Anticipatory anxiety

One or more of the following for at least one month:

- Persistent concern about having another panic attack
- Worrying about the consequences of an attack (e.g. heart attack)
- Significant change in behaviour due to recurrent panic attacks



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Development of Panic Disorder

Spontaneous panic attacks

 \downarrow

Repeated spontaneous panic attacks

 \downarrow

Anticipatory anxiety



Avoidance behaviour



Agoraphobia



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Panic Disorder

- Prevalence in general population = 20%
- Age of onset = mid 20s
- Family Hx of panic attacks can show 10% comorbidity
- Hx gathering is determining factor in Dx (PTSD vs Panic disorder)
- · CBT very effective Tx, often with Rx
- Coffee, ETOH, cigarettes, & certain drugs or food may contribute to the refractory aspect of panic disorder

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Panic Attack: Pearls

- Most symptoms of panic attacks can be seen in PWIDD, except for depersonalization (due to cognitive functioning level)
- In persons with severe/profound developmental disabilities, extreme panic can be manifested as aggression or SIB

(DSM-ID, p.191)

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Tx – Panic disorder

- Rx: SSRIs & benzos
- Therapy
 - CBT: info on anxiety & panic, cycle, S/S management, cognitive restructuring, systematic desensitization, in vivo exposure
 - BT
 - Relaxation techniques
 - Breathing techniques

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PHOBIAS

- Irrational fears of an object or situation even tho' pt recognizes them as
- Three types: agoraphobia, social phobia (public speaking, performing) & specific phobias (snakes, flying, heights)
- Physical symptoms include:
 - Profuse sweating
 - Poor motor control
 - Tachycardia
 - Increased blood pressure

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Tx - Phobias

- Rx: treat panic attacks as mentioned
- Therapy
 - CBT: info on anxiety & panic cycle, S/S management, cognitive restructuring, systematic desensitization, in vivo exposure
 - BT
 - Insight-oriented Tx
- Self-hypnosis
- Biofeedback
- Relaxation techniques
- Breathing techniques

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Obsessive Compulsive Disorder

Obsessions:

Persistent ideas, thoughts, impulses, or images that are experienced as intrusive and inappropriate that cause marked anxiety or distress

Repetitive behaviours (e.g. hand washing, ordering, checking) or mental acts (e.g. praying, counting, repeating words silently) the goal of which is to prevent or reduce anxiety or distress, not provide pleasure or gratification

A clinically significant behavioural or psychological syndrome or pattern that occurs in an individual and that is associated with present distress (e.g. a painful symptom) or disability (e.g. impairment in one or more important areas of functioning) or with a significantly increased risk of suffering death, pain, disability, or an important loss of freedom

• (DSM-IV, APA, 1994)

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e.	
Common Compulsions	Common Obsessions
Checking	Fear of contamination*
Washing *	Pathologic doubt*
Counting*	Somatisation* Need for symmetry
Need to ask/ confess	Agressivity
Hoarding	Sexuality
	*Occurrence much lower in PWDD, due
* Occurrence lower among PWDD, DSM-ID, p.211	to cognitive level & limited abstract thinking, DSM-ID, p.209
	community-networks.c
Pharmaco	otherapy for Obsessive-
	Compulsive Disorder
	Compainte Disorder
 First-Line 	
– SSRI's	
• Second-line	
- Clomipramine	
Considerations	
Higher mean doses	
Delayed onset of respo	
Residual symptoms cor	
Often long-term (main	tenance)
	a a manual transfer and transfer
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	OCD, David
	OCD: Pearls
 Repetitive behaviors w 	
	hould not necessarily be
considered compulsion	
	erventilation, overeating,
overdrinking, smoking, h	urnming nacing)
3,	ammy, pacing,
	n or SIB, may occur if the

T.Broda, Solution-s 41

DSM-ID, p.210 & 213

compulsion!

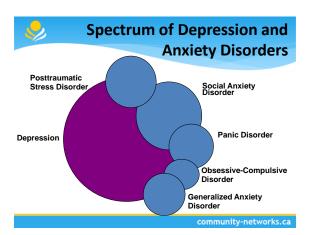
Pharmacologic Management of OCI			
Drug	Dose Range (Frequency	Target Symptoms	Common Adverse Effect
Clomipramine	10-300 mg/d (qhs)	Obsessions, compulsions, ADHD, Nocturnal enuresis	Dry mouth, blurred vision, constipation, sexual dysfunction, orthostatic hypotension
Fluoxetine	10-80 mg/d (qam)	Obsessions, compulsions	Insomnia, nausea, headache, agitation, sexual dysfunction
Fluvoxamine	50-300 mg/d (qhs or bid)	Obsessions, compulsions	As above
Sertraline	50-200 mg/d (qam or bid	Obsessions, compulsions	As above
Paroxetine	10-40 mg/d (qam or bid)	Obsessions, compulsions	As above
Citalopram	10-40 mg/d (qam or bid)	Obsessions, compulsions	As above
From Sandor P. (1995). Pg. 580 community-networks.ca			

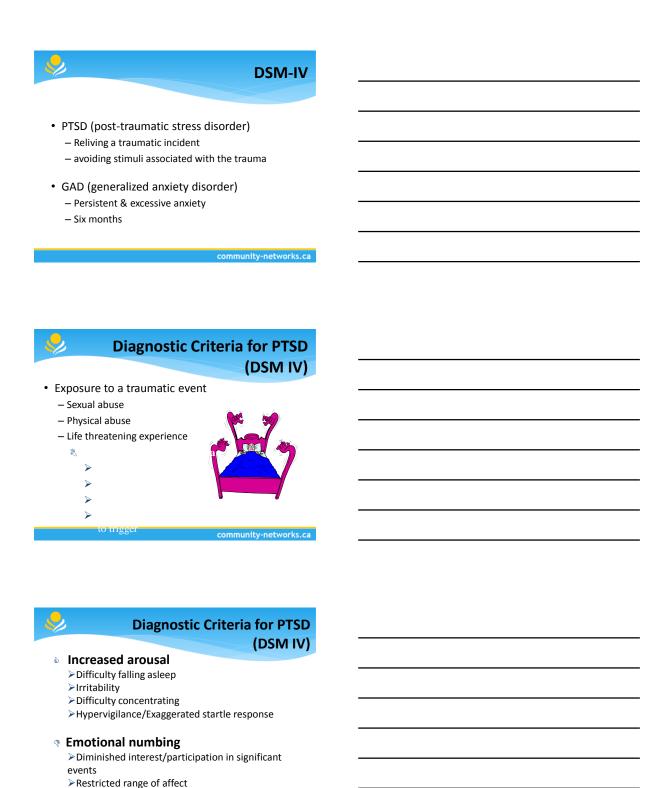


Non-Pharm approaches to OCD

- Divert & redirect attention
- "Sensory" box or bag
- Interrupting w/ strong sensory stimuli
- Try finger-play w/ person to divert
- "grounding": "touch my arm/hands"

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T.Broda, Solution-s 43

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>Avoidance behaviour



PTSD in Individuals with Developmental Disabilities

Presentation

Explosive aggression/self-injurious behaviour (SIB) in response to unusual or difficult to identify antecedents

Screaming

- > May assume self-protective stance
- >At people not present
- >Triggered by smells, places, people or sounds
- >May worsen if individual is being overpowered

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PTSD in Individuals with Developmental Disabilities

- Calling familiar staff by different names
- · Attacking favorite staff members
- SIB
- Sleep disturbances



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PTSD in Individuals with Developmental Disabilities

- Hyper vigilance
 - Individual will know everything about environment to ensure optimal safety
- Flashbacks
 - Dissociation

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♦	Treatmen	t Overview
 Appropriate 	e psychotherapy	
• Judicious u	se of medications	
 Habilitation dissociative 	changes to minim	ize
	cor	nmunity-networks.ca
	Clinical	Treatment
	Cillical	Heatment
Davaha	th average	
	therapy	
Focus on 3Establishir	Stages of Recovery	
– Reconnec	tion with Others	1
– keconstru	ction of the Trauma	
	COL	nmunity-networks.ca
	Col	minumity-networks.ca
	Clinical	Treatment
\checkmark	Clinical	Treatment

- Treat target symptoms
- Treat co-morbid disorders
- Avoid exposure to drugs interfering with recovery

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Treatment

Indicators of Improvement

- Symptomatic
 - Sleep improvement
 - Mood change
 - Decrease frequency/intensity of SCB
 - Interpersonal
 - Cognitive self-representation
 - > Appropriate interactions with others
 - ➤ Ability to form trusting & reciprocal relationships

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Clinical Treatment

Indicators of Improvement

- Vocational
 - Increased work productivity
 - Improved concentration



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Generalized Anxiety Disorder (GAD)

- · Excessive anxiety/worry persisting for 6 months
- · Uncontrollable worrying
- Anxiety associated with 3+ of the following:

 - Restlessness, feeling keyed-up
 Easily fatigued
 Irritability
 Difficulty concentrating, mind goes blank
 - Muscle tension
 - Sleep disturbance
- Anxiety or physical s/s that cause significant impairment in social/occupational/other areas
- Disturbance not d/t substances, medical, PDD or psychiatric disorder

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Rationale for Antidepressant Use in Generalized Anxiety Disorder

- GAD is comorbid with major depression in 62% of cases
- Clinical goal: treat both anxiety and depression
- When you see the anxiety, don't miss the depression
- When you see the depression, don't miss the anxiety

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Tx - GAD

- Rx:
 - -SSRIs (Paxil)
 - Benzos (short-term only)
 - Buspar
 - -TCAs (imipramine)
- Therapy
 - -CBT
 - -BT

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Summary of Interventions (1)

- Structure environment (+ rituals)
 - predictability
- · Reduce stressors
 - Observe for « agitation »
- Teach the person coping strategies
 - Increase tolerance to anxiety provoking situations
 - Increase his/her control of the situation

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Summary of Interventions (2)

- · Gradual exposure to anxiety provoking stimuli
 - Reduce uncomfortable physiologic symptoms
- Medication (alone or combination Tx)
 - SSRIs, benzodiazepines, anxiolytics
- · Psychotherapy:
 - Cognitive behavioral therapy (CBT)
 - Cognitive distortions & behavior

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Summary of Interventions (3)

- Relaxation Techniques
 - Active & (passive)
- Self-control Techniques
 - Self-talk
 - Cue cards
 - Move to a calm environment
- · Physical activity
- · Communicate feelings of anxiety to others

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Psychotropic Medication Classes

Benzodiazepines

Target psychomotor agitation, anxious and fearful affects, and have a calming or sleep-inducing effect

Examples include:

- ·Lorazepam (Ativan),
- ·Diazepam (Valium),
- Oxazepam (Serax),
- •Alprazolam (Xanax),
- •Clonazepam (Rivotril),
- Midazolam (Versed)

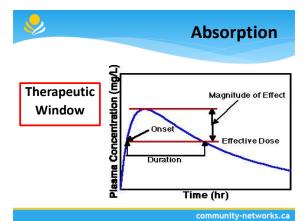
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Psychotropic medications

- Onset of action time required for medication to have an optimal effect.
- Duration of action determines appropriate dosing intervals (minimum time between doses of the medication).
- Therapeutic range level of medication in the blood & brain achieved over a period of time by prescription of a specific dose of medication. This range is characterized by:
 - a) a therapeutic threshold below which the drug has a suboptimal effect
 - b) a toxic threshold above which adverse effects increase in the absence of any further positive effects

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Use of Benzodiazepines

- Useful in many patients but not recommended first-line
- Use only for short periods of time (less than 4 months)
- · Side effect profile
 - Sedation
 - Reduced coordination
 - Increased risk of falls
 - Impaired cognition
- · Risk of dependency/tolerance
- · Withdrawal symptoms/rebound anxiety
- **(decrease gradually: 10 25% every 1 4 weeks)

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Benzodiazepines

	Class	Drug
1.	Long half-life (>13hrs) & high potency	Clonazepam (Rivotril) Clobazam (Frisium) (*AED)
2.	Long half-life (>13hrs) & low potency	Chlordiazepoxide (Librium) Diazepam (Valium) Flurazepam (Dalmane) Nitrazepam (Mogadon)
3.	Short half-life (<13hrs) & high potency	Lorazepam (Ativan) Alprazolam (Xanax)
4.	Short half-life (<13hrs) & low potency	Oxazepam (Serax) Temazepam (Restoril)

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Indications for the Use of Benzodiazepines

ESTABLISHED INDICATIONS	PROBABLE INDICATIONS	POSSIBLE INDICATIONS
 Panic disorder 	 Adjustment 	 Akathisia
GADSocial phobia	disorder with anxiety	Tourette syndrome
Mania/excited schizophrenia	Acute stress- related insomnia	 Severely excited states (ER)
Scriizoprireriia	Circadian rhythm disturbances	, ,

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Rx for ADHD

Stimulants

- Ritalin/Concerta / Methylphenidate
- Dexedrine Dextroamphetamine
- Adderall/ amphetamine salts

SNRI : Selective NE Reuptake Inhibitor

• Strattera/ Atomoxetine

Adrenergic

• Clonidine

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Stimulants

- Take effect within the first week (without mood/anxiety dx)
 - 75 % children
 - 25-78 % adults
- · Can increase anxiety
- · Should be taken with or after meals
- Dosage q. 2 6 hSE: anorexia (↓wt), abdominal pain, insomnia, irritability, sadness, can increase tics & induce psychotic episodes
- (rare)
- Check P, BP with ↑ dose

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Side effects - Stimulants

- · Nervousness, irritability
- Insomnia
- Anorexia & weight loss (*growth may be effected)
- Headache
- · Hypertension, tachycardia
- Tics
- · Dry mouth, blurry vision

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Strattera: Atomoxetine

- Blocks recapture of NE (\(\gamma\) attention, \(\pi\) impulsivity, activity)
- · With/without meals
- Takes effect in 4 weeks
- · No withdrawal symptoms noted
- SE: headache, N & V, abdominal discomfort, anorexia (weight loss), labile mood, fatigue
- Precautions: hypertension, cardiovascular disease, hypotension, liver disorders, glaucoma

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Side effects - Strattera

- · N & V, abdominal discomfort
- · Loss of appetite
- · Headache, dizziness
- Insomnia
- · Fatigue, lethargy
- · Anticholinergic side effects
- · Irritability, aggressiveness
- Palpitations
- · Sexual dysfunction

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Naltrexone

- · Opiate Antagonist (blocks the sites)
- Used in severe cases of SIB (& in alcoholism)

SE:

N & V, abdominal discomfort, weight loss, insomnia, anxiety, depression, confusion, fatigue, headache, rare cases of panic attacks.

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Co-morbidities in PWIDD

- Have higher rates of some health problems [e.g.: seizures (25x); GERD; constipation; sensory impairments; obesity, behavioural and mental health problems]
- Have earlier onset (e.g., osteoporosis, dementia)
- Have different symptoms (e.g., dysphagia)
- Have complicating factors (e.g., multiple and long-term medications)
- Have vulnerabilities (e.g., abuse, infections) (People with ASD – vulnerability to sensory stimuli)
- May have musculoskeletal and motor problems affecting office access; use of equipment

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INDIVIDUALIZED Treatments!

- · Non pharmacological
- · Multimodal approach
- Decrease stress / anxiety:
 - Sensory
 - Environmental modifications
 - Staff support & training
- Communication aids
- · CBT , Psychotherapy

- Pharmacological
- Antidepressants
- · Mood stabilizers
- Benzodiazepines
- · Anxiolytics
- Antipsychotics
- Stimulants
- Monitoring side effects!

O'Hara, et al., 2010, Chapter 16

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Monitoring of side effects

- · Medication side effect monitoring
- MOSES
- · SSRI side effect monitoring tool

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To consider... (Ryan, 2001)

- Challenging behavior (CB) may indicate a health problem (physical or mental)
- These same CBs may mean different things at different times
- · EVERY CB means something!
- Pain that you can control is preferable to pain that is out of control!
- Often, our clients have learnt NOT to complain (M*)

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Intensive Evaluation needed!

- · Data collection: many aspects!
- Taking a thorough history
- · Review of systems
- · Physical exam
- Investigations

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Challenges - Survey of PCP's

True or False:

- I have the necessary skills and training to care for an adult with DD.
- During a typical office visit there is adequate time to perform an assessment of an adult with DD.
- There are sufficient resources and I can easily access interdisciplinary input in my community to support me in providing medical care to adults with DD.

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Supports in Ontario

For PCP's & caregivers working w/ people with DD:

- Guidelines, Tools & Education Module
- CNSC (Coordinators: Sophie Lamontagne (ENG) & Tanya Viner (FR))
- Health Care Facilitators (HCF : Liz Kacew)
- DSO's (July 2011)
- CAMH Website (July 2011)
- http://www.camh.ca/en/hospital/health_information/a_z_mental_health_and_addiction_information/dual_diagnosis/Pages/defaul_t.aspx
- DDPCI Training Course
- DDPCI Clinical Support Networks

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What the psychiatrist will need to know...

- Demographics
- · Chief complaint or reason for referral
- · Family history
- · Current medications
- · Medication history
- · Medical history including recent labs

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What the psychiatrist needs...

- Prior reports
- Previous diagnosis, assessments
- Developmental history
- · Psychological info
- Social information
- Behaviour:
- o Patterns
- o Duration
- o Frequency
- o Intensity
- o Baseline

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Let's take a closer look... W 5

Who?

What?

When?

Where?

Why?

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8	
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Caregiver's Role

- · Observe for particular signs
 - Grimacing
 - Body posturing/positions
 - New posture
 - Change in regular habits/behaviours
- · Note observations & tabulate data
 - charts
 - Sleep, food diary, weight
 - · Pain scale/checklist
 - · Side effects of meds
- · Precision!

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Special concerns

- KNOW YOUR PT: Baseline lab values!
- PMHx
- HPI
- · Behavior changes, concerns
- Think outside the box, too! (Insomnia Tx: socks!)
- Syndrome specific care!

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Tools

- F/U sheet for clinic
- A-B-C sheets
- Scatterplot
- Pain assessment: NCAPC
- Sleep chart/ sleep hygiene
- Side effects of meds
- · Food diary
- · Bristol stool chart for BM monitoring
- · Sz records
- · Dementia screening

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Questions (for caregiver to ask)

- Why do you recommend this treatment?
- How can we tell if things are getting better?
- What are the risks of this treatment?
- What should we do if side effects occur?
- What information do you need for the next appointment?
- When should we call you?
- Are there any checklists or scales that we could use?
- Are there any lab tests that need to be done?
- When should we schedule another appointment?

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IMPORTANT things to do

- Bring data collection with you
- Send a familiar staff member with the client: to help keep him calmer & for best source of information
- Come to the appointment with historical information
- Bring information from multiple settings (work & home)
- Follow through with recommendations
- Be specific, avoid: "Joe's not himself" "He seems worse than before" "He's having mood swings". Bring videos or photos of events
- Bring lab slips & other investigations

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A Good Informant Knows

- What the target symptoms are
- What the proposed treatment is supposed to do
- What side effects (SEs) to look for
- When to report Ses
- Use charts and other data collection systems
- Good information is everything:

garbage in...

=> garbage out!

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