

Full Diagnosis Rather Than Dual Diagnosis

Focusing on the Whole Person with Aging and Behavioral Health Concerns

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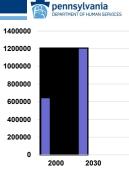
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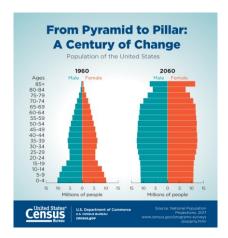
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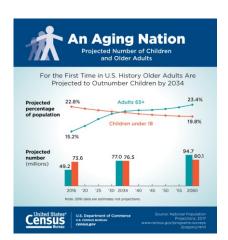
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In the US, the number of adults with intellectual and developmental disabilities (I/DD) aged 60 and older is projected to double from about 640,000 in 2000 to 1.2 million people by 2030.



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Issues In Aging



- · Definition of "elderly" varies
 - Specific age
 - Age related changes in functioning

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pennsylvania behartiven of Human services	
 Think about the aging individuals you are supporting 	
Are they doing well?	
What challenges are they facing?Have those challenges changed in the	
process of aging?	
 What challenges are attributed to mental health issues? 	
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Areas for Refocusing pennsylvania	
Diagnostic clarity	
Health statusEvaluation of medications	
Opportunities for wellness	
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Issues In Aging pennsylvania	
Psychiatric disorders are common in	
elderly persons with developmental disabilities	
Studies vary from 20% to 40%	
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pennsylvania DEPARTMENT OF HUMAN SERVICES	
Dual Diagnosis vs Full Diagnosis	
Intellectual Disability Genetic Diagnosis Neurologic Diagnosis Neurologic Diagnosis Neurologic Diagnosis Neurologic Diagnosis Neurologic Diagnosis	
All types of psychiatric disorders can be seen in elderly persons with I/DD Psychiatric assessment for a person with I/DD is the same general process that would be followed for a person without I/DD	

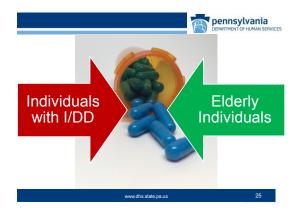
Psychiatric Assessment pennsylvania pennsylvania pennsylvania pennsylvania	
Presenting Symptoms/Chief ComplaintHistory of Present Illness	
Past Psychiatric HistoryPast Medical History	
Social History	
Developmental HistoryFamily History	
Substance Use History	
Mental Status Dhysical Supplieding	
Physical Examination	
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pennsylvania department of Human Services	
Tendency to focus solely on the problematic	
behavior.Full assessment for presence of any type of	
psychiatric disorder	
 Easy to miss important predisposing, precipitating and perpetuating factors, 	
particularly if presenting concerns are dramatic	
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pennsylvania	
Mood disorders	
Anxiety disorders	
Psychotic disorders	
Trauma related disorders	
Autism spectrum disorder	
Neurocognitive disorders	
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- HITAUIS SISCIPUS - 19	

Challenges	pennsylvania DEPARTMENT OF HUMAN SERVICES	
DSM-based criteria for mental based on neurotypical population.	illness frequently ons	
 Historically, intellectual disabilit have been exclusion criteria for pharmacological trials. 		
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	pennsylvania DEPARTMENT OF HUMAN SERVICES	
Daily Functioning		
1 1		
	•	
Physical Health	Behavioral Health	
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	pennsylvania DEPARTMENT OF HUMAN SERVICES	
Health goals for adults with I/Di the general population		,
 Maintain or improve community p Support a good quality of life Promote wellness 	articipation	
 Minimize need for acute hospitalizer visits. 	zations and urgent	
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 Individuals with I/DD will generally have similar rates of age-related health conditions Heart disease 	
Type 2 diabetesCancer	
Osteoarthritis Vision/hearing	
– Dementia	
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pennsylvania pennsylvania pennsylvania pennsylvania pennsylvania	
Risk factors for age-related health conditions are similar to the general population Observed.	
Obesity Hypertension High shalestard	
High cholesterolInactivitySmoking	
- Alcohol use	
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pennsylvania DEPARTMENT OF HUMAN SERVICES	
 Pain and distress: Nonverbal patients can be assessed with a caregiver's help as well as pain assessment tools adapted for adults with I/DD. 	
Vision and hearing: Screen for cataracts and glaucoma (yearly for those aged 45 and older) and	
assess hearing, especially in light of reported changes in behavior. (Cerumen impaction may be a common	
 cause.) Dental disease: General oral examinations may reveal the need for further investigation or closer monitoring by 	
a dental professional.	
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	Musculoskeletal disorders: Adults with I/DD are at	_
	high risk of osteoporosis and contractures related to	
	reduced or limited activity. Osteoporosis occurs earlier in the I/DD population compared with the general	
	population. Osteoarthritis also is an area of concern.	
•	Gastrointestinal disorders: Screening plays an important role in the identification of gastroesophageal	
	reflux disease. Colon cancer screening follows the same protocol used in the general population.	
	Vaccinations: adults with I/DD may not receive	
	vaccinations at the same rate as adults in the general population.	
	· ·	
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M	imics of Anxiety: THINC MED pennsylvania	
	Tumors	
•	Hyperthyroidism	
•	- Estrogen Infectious diseases - Streptococal infection	
	- Sieptococa iniciali	
	 Vitamin B¹² deficiency can present with anxiety symptoms and, in some cases, panic attacks. 	
•	Central nervous system - Head trauma—even when it is mild—can result in psychiatric symptoms, including those of anxiety.	
•	Miscellaneous/Metabolic - Wilson's disease	
•	Electrolyte abnormalities and environmental toxins Drugs	
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	mmui is sidee ja us	
	pennsylvania	
	Polypharmacy	
	 Use of multiple medications 	
	InterclassIntraclass	
	Intractass Increased risk for drug interaction	
	ladiciduals with UDD offers have	
	 Individuals with I/DD often have numerous medications prescribed, sometimes by various 	

providers.



Understanding Drug Effects



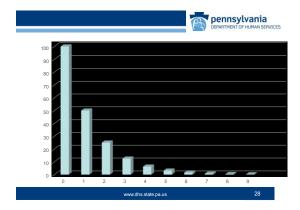
- Half-life (t1/2)
- · Steady-state
- · Pharmacodynamics
- · Pharmacokinetics

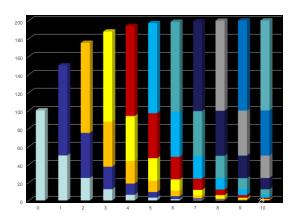
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- · Half-life of a medication
 - Period of time required for the concentration or amount of drug in the body to be reduced by **one-half**
- · Steady state concentration
 - Situation where the overall intake of a medication is fairly balanced with its elimination

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Pharmacodynamics



- Describes what a medication does to the body (both desirable and undesirable effects)
- Influenced by drug concentrations at sites of action
 - Enzymes
 - Receptors
 - Second messenger systems

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Pharmacokinetics pennsylvania p	
 Describes what the body does to a medication Characterized by 4 primary phases Absorption 	
DistributionMetabolismElimination	
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Absorption Changes pennsylvania DEPARTMENT OF HUMAN SERVICES	
 Decreased number of absorptive cells Decrease in some of the transport processes 	
 Decrease in gastric acidity Decrease in intestinal fluid volume Decrease in gastric emptying rate 	
Decrease in Gl motility and blood flow	
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Distribution Changes pennsylvania	
Decrease in total body water	
 Decreased lean body mass with increased fat to muscle ratio 	
Decreased perfusion of tissues (brain, liver kidney)	
Decreased plasma albumin ratio	
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Metabolism Changes pennsylvania DEMARTHEN TO PHUMAN SERVICES	
Reduced hepatic blood flow	
Reduced enzyme activity of some of the liver enzyme systems.	
enzyme systems - Responsible for the metabolism of medications	
(detoxifying)	
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Elimination Changes pennsylvania	
• Renal Excretion	
Decreased kidney weight	
Decreased kidney blood flow	
Decreased tubular secretion	
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Medication Use In The Elderly pennsylvania	
Drug-Aging interactions	
Drug-Drug interactions	
Drug-Disease interactions	
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- The annotation peaks - Section 1997	

Medication Use In The Elderly



- · Initiate therapy with a low dose
- · Gradual increases with low increments
- · Prescribe as few medications as possible
- Regularly monitor the individual for therapeutic and adverse effects
- · Appropriate use of medication monitoring

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Medication Use In The Elderly

Prescribing Cascade



- Individualize and simplify the medication regimen as much as possible
- Enhance compliance by limiting the total number of medications and the number of pills
- Simplify the dosing schedule (number of times per day a medication is given)
- Multiple orders for the same medication by different names (multiple doctors prescribing)
- · Medications administered after the stop date
- PRN use daily for more than 30 days consecutively

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Antipsychotics Extrapyramidal signs and symptoms Antiparkinsonian therapy Cholinesterase inhibitor Incontinence Incontinence treatment

NSAIDs Increased blood pressure Antihypertensive therapy

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Guides for Medication Use pennsylvania	
The American Geriatrics Society Beers Criteria® (AGS Beers Criteria®) for Potentially Inappropriate Medication Use in Older Adults	
 https://www.ncbi.nlm.nih.gov>pubmed Pharmacogenomic Testing 	
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Considerations for Potential Problems pennsylvania	
Antidepressant therapy	
 More than 2 changes of an antidepressant within a 7 day period Use of an antidepressant for less than 3 days (without 	
evidence of reason to stop)Use in excess of indicated maximum dosages	
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Considerations for Potential Problems pennsylvania DEPARTMENT OF HUMAN SERVICES	
Antipsychotic therapyThe elderly have a slower hepatic metabolism of	
antipsychotic agents Increased sensitivity to dopamine blockade	
 Lower dosages should be used Longer waiting periods before medication increases 	
 Use of 2 or more antipsychotic agents at the same time (typical agents) Avoid excessive dosages 	
· ·	
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Considerations for Potential Problems pennsylvania	
 Antipsychotic agents continued PRN use more than 5 times in 7-day period without a 	
physician review of the patientUse of an antipsychotic agent in the absence of a	
diagnosed condition to justify the use • Use in isolated behaviors	
- Wandering	
RestlessnessAnxiety	
DepressionInsomnia	
- Agitation	
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Considerations for Potential Problems pennsylvania penartment of HUMAN SERVICES	
Lithium use in the elderly	
 Precautions necessary due to decreased renal clearance in the elderly 	
Low dose to start (150-300mg bid)	
Longer time to steady-state (>7days) Conding diagonal	
Cardiac diseaseIncreased sensitivity to the neurotoxicity of	
lithium	
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Considerations for Potential Problems pennsylvania DEPARTMENT OF HUMAN SERVICES	
Anxiolytic/Hypnotic useSlowed hepatic metabolism	
Potentially greater pharmacodynamic sensitivity	
Short-acting agents (lorazepam, oxazepam, and	
temazepam) are preferred when this type of medication is needed	
Study: people >65years old on long-acting Study: people >65years old on long-acting	
agents (>24 hour half-life) had 70% increased risk of falls compared to no psychotropic	
medications	
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Considerations for Potential Problems pennsylvania	
 Anxiolytic/hypnotic agents continued Continuous use of hypnotic agents for more 	
than 4 to 6 weeks • Use of two or more hypnotic/anxiolytic agents at	
the same time	
Escalating dosesAbrupt discontinuation after long term use	
www.drg.steep.pa.us 46	
Dementia Treatments pennsylvania Dementia Treatments	
No medication will stop the degenerative process of Alzheimer's disease or produce a	
permanent improvement in functions • Symptom control	
Improving quality of life	
Possible temporary reduction in symptoms of dementia	
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Dementia Medications pennsylvania	
Cholinesterase Inhibitors Cognex (Tacrine): Withdrawn from the market 2013	
- Aricept (Donepezil)	
Exelon (Rivastigmine)Reminyl (Galantamine)	
N-methyl-D-aspartate (NMDA) receptor antagonist	
- Namenda (Memantine) - Blocks action of glutamate	
-	
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Age May Be Risk Factor Drug induced parkinsonism Tardive dyskinesia Neuroleptic malignant syndrome Akathisia Anticholinergic effects	Pennsylvania DEPARTMENT OF HUMAN SERVICES Adverse cognitive effects Iatrogenic delirium Benzodiazepine withdrawal Orthostatic hypotension Agranulocytosis		
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Opportunities for Well	ness pennsylvania		
"Wellness is a state of mental, and social well the absence of disease World Health Organiza	being, and not merely or infirmity." – The		
Components Self-directed and evolv Multidimensional and h Positive and affirming	ing process		
Achieving full potential Cultural influences			
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Why is wellness impo	rtant? pennsylvania		

- Life demands, stress, crisis, or trauma can impact or alter our routines and habits.
- Wellness activities create patterns and predictability which may stabilize routines and habits.
- In addition to positive experiences, wellness activities may produce fundamental changes that have a positive impact.

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8 Dimensions of Wellness



- Emotional
- Spiritual
- Intellectual
- Physical
- Environmental
- Financial
- Occupational
- Social

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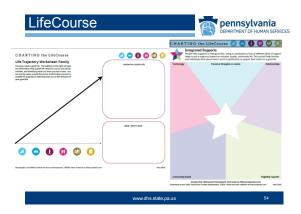
Emotional Wellness: Self Care



- Routines
- · Time planning for required events
- · Music, art, other expressive activities
- Yoga
- Physical activities
- Meditation
- · Breathing
- · Film: Alive Inside
 - Documentary about the use of music to stimulate and engage individuals with dementia

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What is Next? Advances



- · Molecular genetics
- Neuroimmunology
- Mitochondria
- Microbiome
- The "enteric brain"
- Biomarkers
- · Neuromodulation
- · Parenteral (non-oral) medications
- Internet connectivity
 - Telepsychiatry
 - Remote Supports



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