

Geriatric Psychiatry: A review



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Geriatric Psychiatry



- ❧ *Geros* – old age
- ❧ *Iatros* – physical
- ❧ Aims of specialty
 - ❧ Address psychological issues in the elderly
 - ❧ Promote longevity
 - ❧ Mental adaptation
- ❧ 25% have psychiatric symptoms
 - ❧ Commonest are:
 - ❧ Depressive disorders
 - ❧ Cognitive disorders
 - ❧ Phobias
 - ❧ Alcohol use disorders
 - ❧ Suicide
 - ❧ Drug induced psychiatric disorders

Psychiatric examination



- ❧ Same format as in younger patients
- ❧ Interview patient alone
 - ❧ Privacy, SI & paranoia
- ❧ Get the family & caretaker story also
- ❧ Comorbid cognitive issues will require:
 - ❧ Explanation of the reason & process of interview
 - ❧ Confirm details with family/caretaker
- ❧ Ask patients to bring their medications in

Question



Geriatric patients' attitude towards young physicians is more likely to result in them treating the physician as:

- A. Child figure
- B. Parent figure
- C. With a superiority complex
- D. With an inferiority complex

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Psychiatric examination



- ❧ Medical history is important because:
 - ❧ Multiple, chronic illnesses
 - ❧ Psychiatric symptoms may precede manifestation of medical syndrome
 - ❧ Geriatric patients are major consumers of OTC medications

Psychiatric examination



☞ Cognition & sensorium

☞ Observe: Assess attention & concentration

☞ “I’d like to ask you some questions to assess your thinking, concentration & memory”

☞ “Let me start by asking you to repeat the following three objects back to me”

☞ Immediate recall

☞ Orientation to time, place, person & circumstance

☞ Presidents

☞ Serial 7’s, Serial 3’s, Object or word recall

☞ Name 3 objects: tests naming, not object recall

☞ Intersecting pentagons

☞ Reading and writing

☞ 3 object recall in 5 min

Neuropsychology

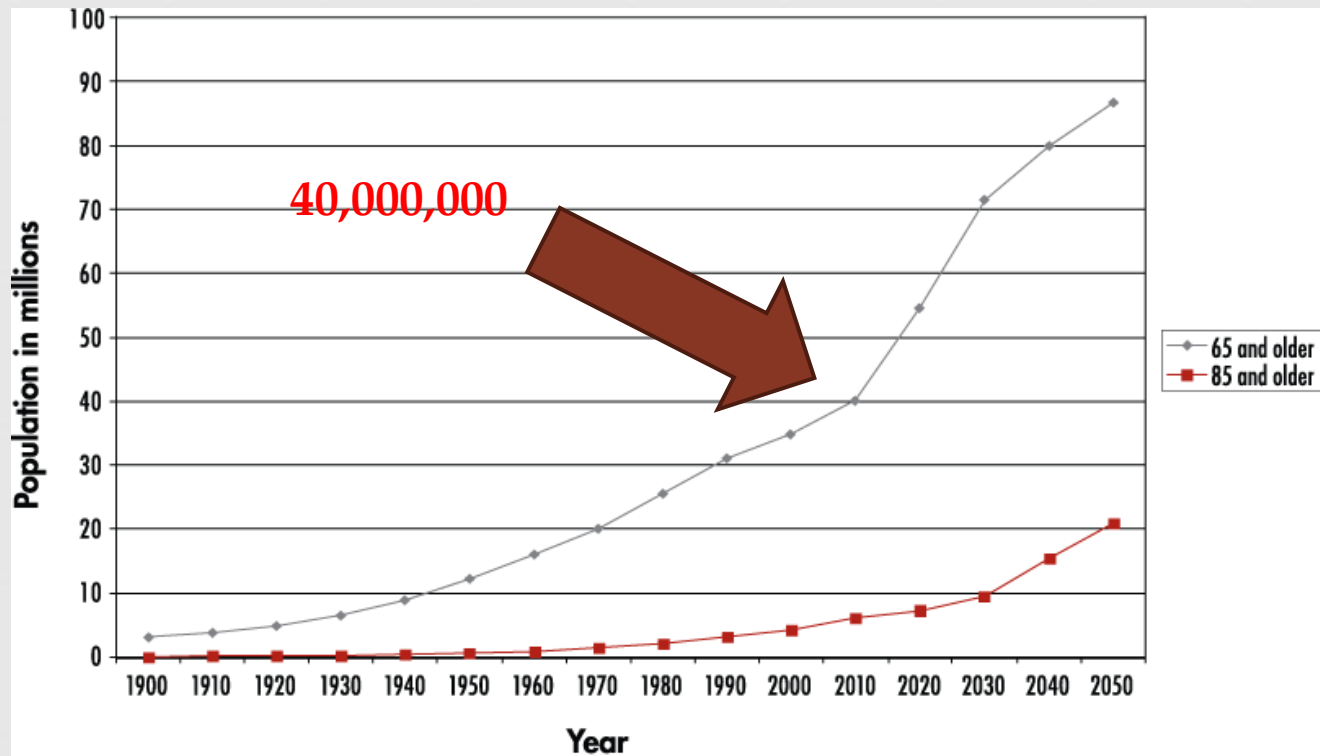


- ❧ **Mini Mental State Examination**
 - ❧ Detects cognitive abnormalities
 - ❧ Monitors the course of cognitive problems
 - ❧ Monitors treatment response
 - ❧ DOES NOT make a cognitive disorder diagnosis
- ❧ **Weschler Adult Intelligence Scale - Revised (WAIS-R)**
 - ❧ Verbal IQ + Performance IQ = Full scale IQ
 - ❧ Performance IQ is more affected in dementia
- ❧ **Bender Gestalt**
 - ❧ Visuospatial test
- ❧ **Halstead-Reitan Battery**
 - ❧ Comprehensive neuropsychologic testing
- ❧ **Geriatric Depression Scale**
 - ❧ Eliminates recording of somatic or psychosomatic complaints

Epidemiology

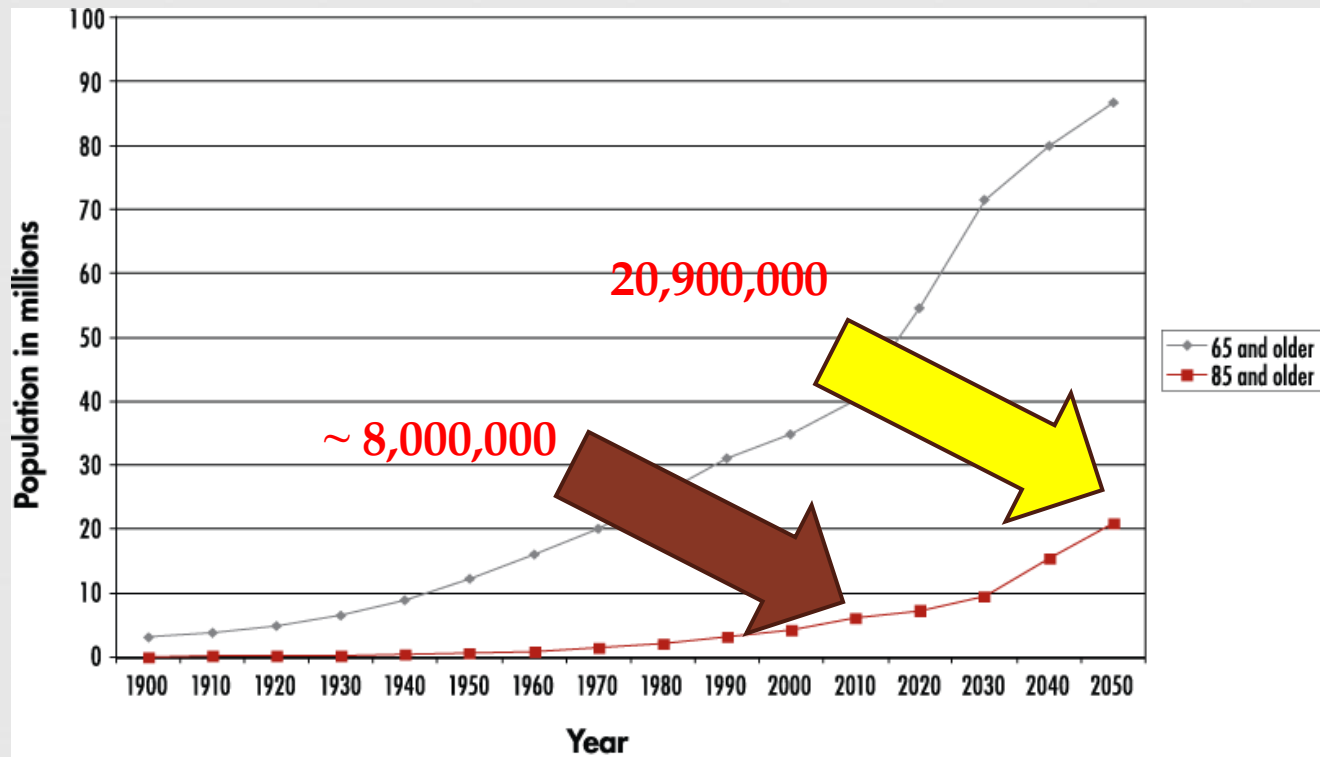


Epidemiology



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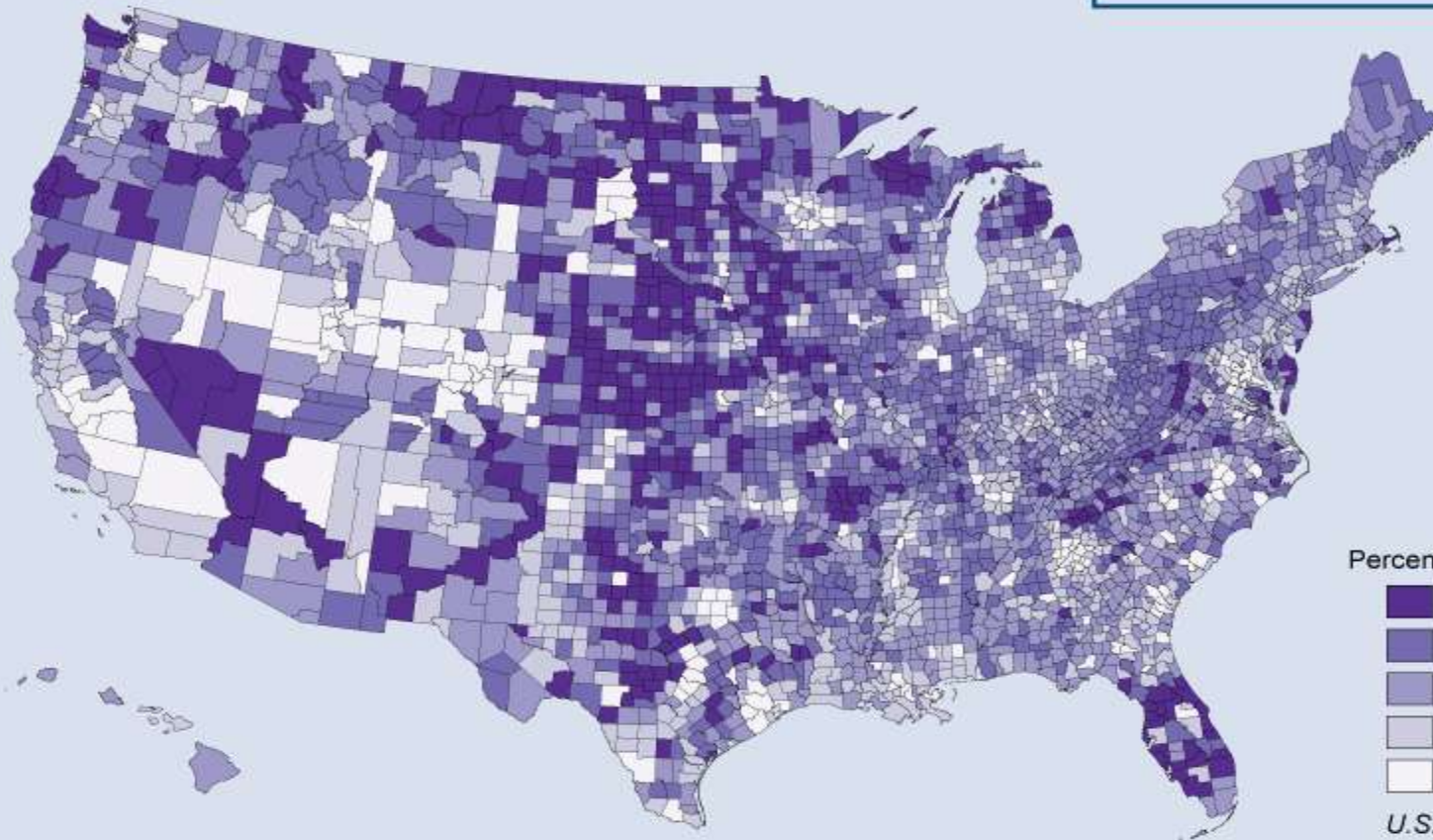
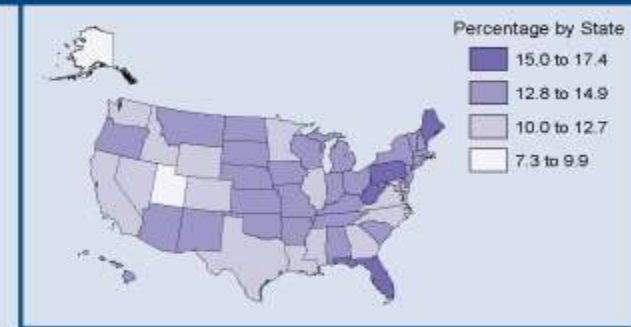
Epidemiology



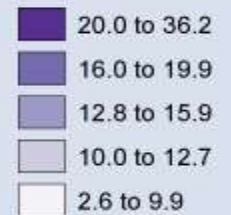
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Indicator 1 - Number of Older Americans

Percentage of the population age 65 and over, by county and State, 2008



Percentage by county



U.S. total is 12.8 percent.

Reference population: These data refer to the resident population.
SOURCE: U.S. Census Bureau, July 1, 2008 Population Estimates.

Epidemiology



- ❧ Predominantly female and white
 - ❧ 58% of the population ages 65 and older
- ❧ Life expectancy
 - ❧ 1900 - 48.3 years for females and 46.3 years for males
 - ❧ 2004 - 80.4 years for females and 75.2 years for males.
 - ❧ 65-year-old average of 18.7 more years,
 - ❧ 75-year-old could expect to live 11.9 additional years

Epidemiology



- Higher percentage of elderly women with increased life expectancy
 - Cigarette smoking more in men
 - More physical demands from work in men
 - Women have a genetic advantage
 - But...more women are entering the workforce and more are smoking

Psychiatric illness



Disorder	Lifetime prevalence	12 month prevalence
Alcohol use disorder	16.1%	1.5%
MDD	8.2%	2.7%
Panic d/o	2.8%	0.8%
Social anxiety	3.0%	1.6%
GAD	2.6%	1%
Specific Phobia		7.5%
MDD in nursing homes	14.4%	(non-NESARC data)

NESARC-National epidemiologic study on alcohol and related conditions

Cognitive illness



Author	Location	N	Age	Cognitive illness
Manley et al	NYC	1315	65+	2.1-6.2% MCI
Callahan et al	Primary care in Indiana	3594	60+	15.7%
Regier et al	ECA	5702	65+	4.9% (2.9% ages 65-74; 6.8% ages 75-84; 15.8% ages 85+)
Evans et al	East Boston	467	65+	10.3% probable Alzheimer's
Rovener et al	Maryland	50	Mean age = 83	5.2% probable dementia 56% primary degenerative 18% multi-infarct 4% Parkinson's dementia

Over age 85



- ❧ 3 year incidence of depression 4.1%
- ❧ Incidence of schizophrenia 3 per 100,000 persons of new cases per year
- ❧ Incidence of dementia 118 per 100,000 persons for new cases per year
- ❧ Incidence of Alzheimer's disease 8.4%

Psychiatric disorders



Dementing disorders



- ❧ Risk factors
 - ❧ Age
 - ❧ 5% of patients over 65 years
 - ❧ 20% of patients over age 80 years
 - ❧ Family history
 - ❧ Female sex
 - ❧ Depression
 - ❧ Substance use
 - ❧ CVAs
- ❧ 10-15% have a **reversible** cause
 - ❧ Benzodiazepines & other medications
 - ❧ Hypothyroidism
 - ❧ Dementia syndrome of depression (Pseudodementia)

Dementing disorders



- ❧ Dementia affects
 - ❧ Cognition
 - ❧ Memory
 - ❧ Language
 - ❧ Visuospatial functioning
 - ❧ Behavior
 - ❧ Agitation, restlessness, wandering, rage, violence, shouting, social/sexual disinhibition, impulsiveness
 - ❧ Sleep
 - ❧ Neuropsychiatric symptoms
 - ❧ Depression
 - ❧ Mania
 - ❧ Delusions and Hallucinations seen in 75% of dementia patients

Dementing disorders



- ❧ Cortical dementias (Aphasia, agnosia, apraxia, memory loss, executive functioning)
 - ❧ Alzheimer's disease
 - ❧ Creutzfeld-Jakob disease
 - ❧ Pick's disease
- ❧ Subcortical dementias (gait apraxia, movement disorders, psychomotor retardation, apathy, memory loss less prominent in the beginning)
 - ❧ Huntington's disease
 - ❧ Parkinson's disease
 - ❧ Normal pressure hydrocephalus
 - ❧ Wilson's disease
- ❧ Mixed dementias
 - ❧ Vascular dementia
 - ❧ Dementia of Lewy Body type
 - ❧ HIV & other infectious causes

Alzheimer's disease



- ❧ 50-60% of dementia cases
- ❧ 5% cases >65 yrs & 15-20% cases >85 yrs
- ❧ 50% cases in nursing homes
- ❧ Insidious onset and progressive course
- ❧ Mean survival of 8 years (Range: 1-20 years)
- ❧ Course: Memory → Language → Visuospatial changes
- ❧ Plaques - amyloid deposits
- ❧ Tangles - tau protein deposits
- ❧ Loss of cholinergic neurons
- ❧ Pharmacology
 - ❧ Aricept, Exelon, Reminyl, Namenda
 - ❧ Slow memory loss, delay placement, treat neuropsychiatric symptoms, reduce caregiver burden
- ❧ Nonpharmacologic behavioral management

Vascular dementia



- ❧ Second most common type
- ❧ Abrupt onset with stepwise deterioration...or not!
- ❧ Few large lesions or numerous smaller lesions
- ❧ Treatment:
 - ❧ Acetylcholinestrerase inhibitors
 - ❧ Treat secondary neuropsychiatric syndromes
 - ❧ Manage hypertension, DM, smoking, arrhythmia
 - ❧ Nonpharmacologic behavioral management

Depressive disorders



- ❧ 15% in community have depressive symptoms
- ❧ 15% in nursing homes have depressive symptoms
- ❧ Risk factors
 - ❧ Female
 - ❧ Widowed
 - ❧ Chronic medical illness
- ❧ More likely to report somatic symptoms

Bipolar disorder



- ❧ Relapse remitting history
- ❧ Lifetime relapse risk
- ❧ If the first episode occurs after age 65 years
 - ❧ Suspect an organic cause
 - ❧ Suspect a medication induced cause
- ❧ Lithium
 - ❧ Decreased GFR increases toxicity risk
 - ❧ More likely to have neurologic side effects

Schizophrenia



- ❧ Lifetime relapse risk
- ❧ Patients more likely to be in the residual phase
 - ❧ 20% with no active symptoms
 - ❧ 80% have a variable presentation
 - ❧ 30% in residual phase
- ❧ Late onset if onset is after age 45
 - ❧ More in women
 - ❧ Co-occurring dementia likely

Delusional disorder



- ❧ Delusions which are chronic and non-bizarre
- ❧ Onset at 40-55 years
- ❧ Persecutory delusions are most common
 - ❧ Accompanying behavior problems

- ❧ Precipitating or exaggerating features
 - ❧ Death of spouse
 - ❧ Job loss
 - ❧ Entering retirement
 - ❧ Social isolation
 - ❧ Financial issues
 - ❧ Debilitating illness
 - ❧ Deafness
 - ❧ Visual impairment
- ❧ Rule out other psychiatric illness
 - ❧ Alzheimer's disease
 - ❧ Depression
 - ❧ Substance use

Anxiety disorders



- ❧ Onset in elderly is rare
- ❧ Phobias are commonest
- ❧ Panic disorder
- ❧ Agoraphobia
- ❧ Generalized anxiety disorder
- ❧ Obsessive compulsive disorder
- ❧ PTSD
- ❧ Social phobia
- ❧ Specific phobia
- ❧ Secondary to medical illness or substances

Alcohol & substance use



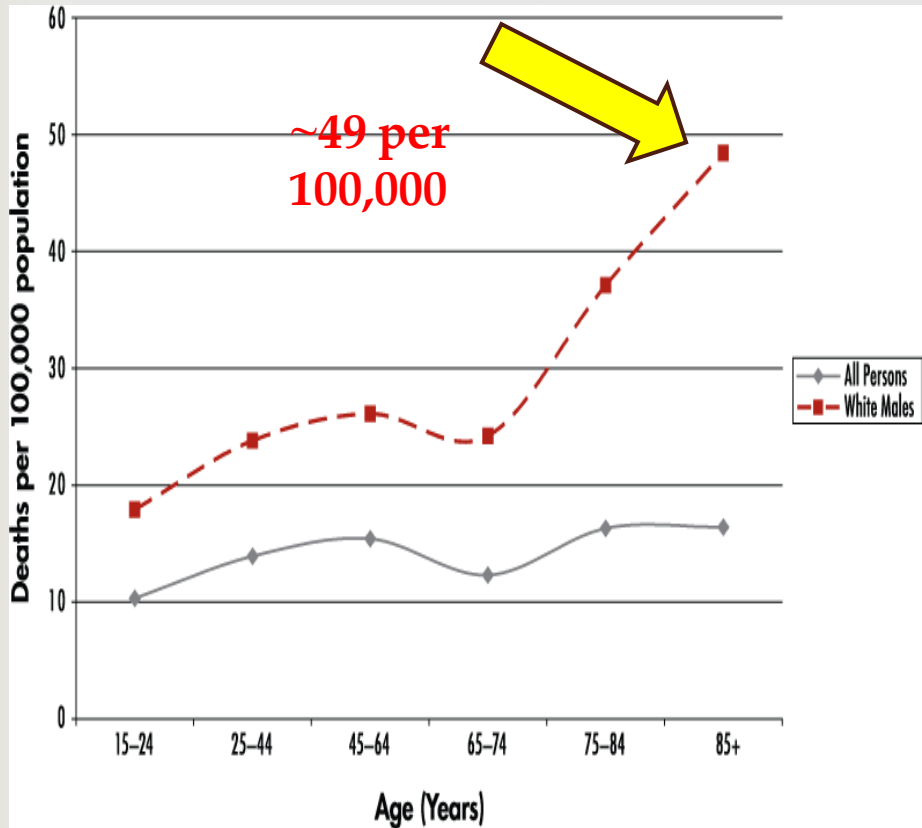
- ❧ Either in remission
- ❧ Or with ongoing use
 - ❧ Legal issues
 - ❧ Liver/medical illness
 - ❧ Failed relationships
 - ❧ Dementia
 - ❧ 20% of NH pts - etoh
 - ❧ Etoh w/d - delirium
- ❧ Benzodiazepines &
- ❧ Opioid dependence
- ❧ Addiction vs. dependence
- ❧ Nicotine & caffeine also seen
- ❧ Other substances
 - ❧ 35% use OTC analgesics
 - ❧ 30% use laxatives

Suicide risk



- œ >65 years white males – highest risk group for suicide
 - œ 5 times higher than general population
 - œ In 1/3 loneliness is the precipitating factor
 - œ In 10% of suicide completers triggers are:
 - œ Financial issues
 - œ Comorbid medical illness
 - œ Depression
 - œ High rates in widowed, divorced or separated patients
 - œ Asking about SI doesn't increase risk
 - œ Style is important for valid truthful answers

Suicide



>75 years	15-24 years
50.0 per 100,000	22.0 per 100,000
Women 15.8 per 100,000	4.9 per 100,000

Elder abuse



- ❧ Occurs in 10% of patients over age 65 years
- ❧ Can be verbal, physical, emotional and sexual
- ❧ Acts of omission (neglect) also possible
 - ❧ Withholding
 - ❧ Food
 - ❧ Clothes
 - ❧ Medicine
 - ❧ Other necessities
- ❧ Perpetrator
 - ❧ Financially dependent on victim
 - ❧ Victim also closely dependent on perpetrator
 - ❧ Both may under-report

Geriatric psychopharmacology



- ❧ Pre-Rx medical eval
- ❧ May need EKG
- ❧ Home meds' listing
- ❧ May need TID or BID dosing
- ❧ HS dosing for sedatives
- ❧ Liquid preparation for dysphagia or noncompliance
- ❧ >65 years use the most amount of medications
- ❧ 25% scripts are for:
 - ❧ Psychotropics
 - ❧ Cardiovascular meds
 - ❧ Diuretics
- ❧ 40% of all hypnotics consumption
- ❧ Check OTC use
 - ❧ 70% in elderly
 - ❧ 10% in younger pts

Geriatric psychopharmacology



- ❧ Decreased absorption
 - ❧ ↓↓ gastric acid
 - ❧ ↓↓ Lean mass
- ❧ Decreased excretion
 - ❧ ↓↓ Renal clearance
 - ❧ ↓↓ Hepatic metabolism
 - ❧ ↓↓ Cardiac output
- ❧ ↑↑ Fat – lipid soluble drugs more widely distributed with prolonged drug effects
- ❧ Use lowest effective dose

Geriatric psychopharmacology



- ❧ Tricyclic antidepressants
 - ❧ Nortriptyline and desipramine
 - ❧ Commonly used
 - ❧ Lower anticholinergic effects
 - ❧ Lower sedation
 - ❧ Decreased orthostatic hypotension with nortriptyline
 - ❧ Therapeutic blood levels
 - ❧ Nortriptyline: 60-150 ng/mL
 - ❧ Desipramine: >115 ng/mL
 - ❧ Low doses can cause therapeutic levels
 - ❧ Type Ia antiarrhythmic effects
 - ❧ Get pre-rx EKG
 - ❧ Don't use in RBBB or LBBB
 - ❧ Careful s/p MI

Geriatric psychopharmacology



- ❧ SSRI's
 - ❧ Same dose as in young adults
 - ❧ Side effects
 - ❧ Insomnia, akathisia, nausea, anorexia, pseudoparkinsonism & SIADH
 - ❧ Can cause CYP2D6 inhibition increasing levels of:
 - ❧ Desipramine, antipsychotics, beta-blockers, verapamil and type Ia antiarrhythmics
 - ❧ Some can cause 3A4 inhibition increasing levels of:
 - ❧ Xanax, Halcion, Carbamazepine, Quinidine and Erythromycin
 - ❧ Luvox + Theophylline
 - ❧ 3 fold increase in Theophylline levels via CYP 1D12 inhibition

Geriatric psychopharmacology



- ❧ MAOIs
 - ❧ Orthostatic hypotension and fall risk
 - ❧ Weight gain, anergia, insomnia, somnolence, neuropathy
- ❧ Effexor, Wellbutrin, Serzone
 - ❧ Safe in elderly; similar as young adult dosing
- ❧ Augmentation therapies
 - ❧ Lithium augmentation
 - ❧ Combination treatments usually poorly tolerated
- ❧ ECT

Geriatric psychopharmacology



❧ Antimanic agents

- ❧ Lithium, depakote, carbamazepine
- ❧ Atypical antipsychotics
- ❧ Lamotrigine for bipolar depression

❧ Anxiolytics

- ❧ >65 years represent 12% of the population
- ❧ But represent 15% of anxiolytics' users
- ❧ 5 times higher use than the general population

Geriatric psychopharmacology



- ❧ Atypical antipsychotics
 - ❧ May need lower doses
 - ❧ Increased EPS risk
 - ❧ More likely to have unusual side effects
 - ❧ Stop speaking or ambulating or swallowing
 - ❧ Neurologic side effects
 - ❧ Akathisia, parkinsonism, autonomic s/e, fall risk

Psychotherapies



- ❧ Main issues addressed:
 - ❧ Loss
 - ❧ Role adjustment
 - ❧ Accepting mortality
- ❧ Supportive psychotherapy
 - ❧ Frail, nursing home patients
 - ❧ Ventilation
 - ❧ Advice
 - ❧ Accept decreased functional capacity
 - ❧ Accept increased dependency

Psychotherapies



- ❧ Life review/reminiscence therapy
 - ❧ Reflect & reminisce on the past
 - ❧ Progressive return of memories
 - ❧ Biography write up
 - ❧ Look through
 - ❧ Scrapbooks
 - ❧ Memorabilia
 - ❧ Family reunions
 - ❧ May significantly distract patient

Psychotherapies



☞ CBT

- ☞ Similar technique as in younger adults
- ☞ Conduct at a slower pace
- ☞ More active role by therapist
- ☞ Notes and tapes for hearing loss
- ☞ Slow termination upon completion of treatment

☞ Psychodynamic

- ☞ Brief course for:
 - ☞ Adjustment disorder
 - ☞ Grief reaction
 - ☞ New-onset anxiety disorder
- ☞ Insight oriented format



Grow old along with me!

The best is yet to be. . .

— *Robert Browning*