

Branston T. Duckworth (Poppy)

GERIATRICS: THE SILENT MAJORITY

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Resources:

www.bit.ly/GeriatricEmergencies

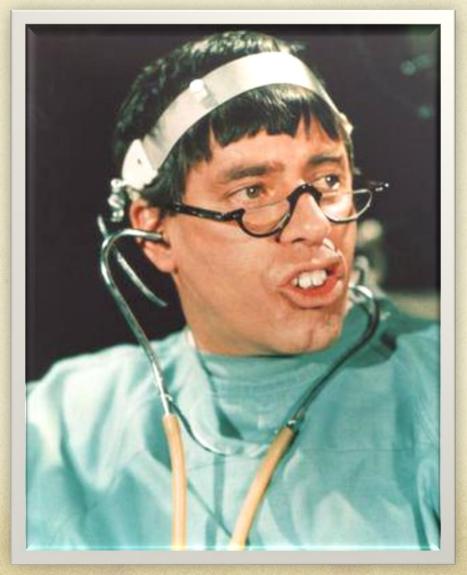


http://ww

Websites:

www.RescueDigest.com www.RomDuck.com

MYTHS



"Canon of Medicine" in 1025

IL Nascher in 1909 -> ALE:48

IOM 2008: "Woefully Inadequate"

Quality of Life (and Death)

Patient Advocacy

HISTORY

Changes in physiology due to aging.

Chronic, progressive disease processes.

Abnormal presentation of diseases.

Multiple concurrent interactive diseases.

Multiple concurrent treatments.

Non-specific complaints.

MEANHIG

PROBLEM

Atypical presentations missed

Brittle patients hide complaints, quickly fail.

Sole medical contacts don't "catch" problems, go untreated.

Familiarity breeds contempt.

Assumption that "old people are gonna die".

Raise awareness

Raise understanding

Raise index of suspicion

GOAIS

Improve patient outcome

SENESCENCE

The 1% Rule

We all age differently

Not a disease.

SKIN

Loss of collagen

Reduced layer of fat

ALC: NO ALC: NO

MUSCLE

BONE

Decreased joint flexibility

Decrease in muscle mass. (sarcopenia)

Bone loss (osteopenia)

Brain atrophy (shrinkage).

Separation of the brain from the dura.

Decreased cortical cell count (memory loss).

Slowed nerve conduction.

BRAIN

Decreased pupil size

Loss of accommodation (reaction)

EYES &

EARS

Sensory (hair loss -> cilia)

Neural (nerve cell conduction)

Metabolic (stria vascularis -> cochlear fluid)

Mechanical (atrophy of bones of the cochlea)

HEART

- max. heart rate 10 beats/min/decade

- resting stroke vol. 30% by age 85

- max. cardiac output 20-30% age 65

- vessel compliance >BP 10-40 mmHg

LUNGS

Vital capacity of lungs will have decreased up to 50% by age 75.

Decreased ciliary activity.

Cough & gag reflexes reduced.

Decreased saliva

Poor swallowing

Decreased acid production

Decreased digestion

Diminished motility

KIDNEYS

Decreased size and filtering function

Decreased immune system

Decreased blood clotting factors

GINER

Renal artery

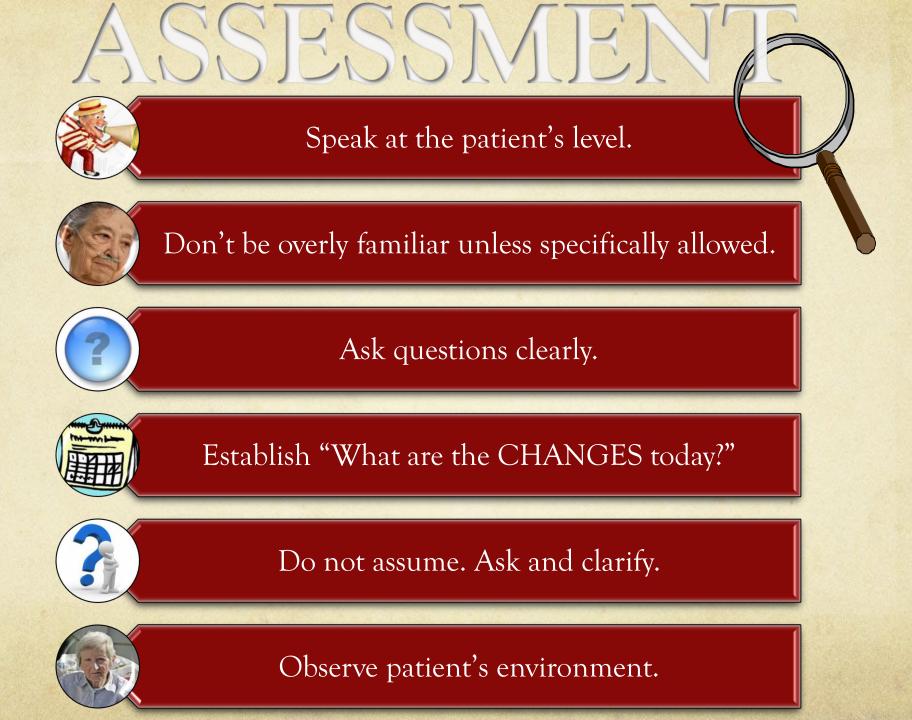
PYSCHOSOCIAL

Decreased activity levels

Loss of family / friends

Isolation / Depression

Failure to thrive.







The difficult elderly. Be nice.

THE MYSTERY

5% Hospital admissions.

40% nursing home admits.

2% Hip Fx. (18-33% mortality).

More total deaths and injuries than any other form of trauma for geriatric patients.

FALLS

S.P.L.A.T.T.

Symptoms

Previous Falls

Location

Activity

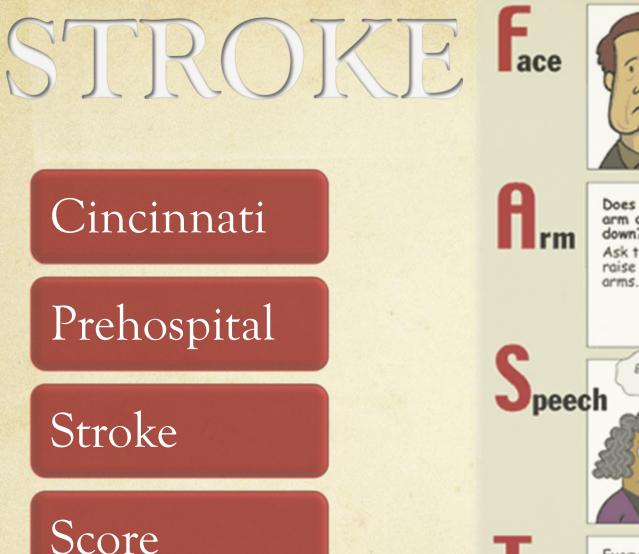
Time

Trauma (sequelae)

7,600 annual geriatric deaths.

More likely multi-trauma.

Poor compensation for multi-trauma.







ls it a

stroke?

Check

these

signs

FAST!

Does the

face look

uneven? Ask them to smile.

> Call 9-1-1 at any sign of stroke.

Massachusetts Department of Public Health ... Receiving information call 1.805.487.1318 or annal heart christellutate massachusett

DEMENTIA

Determine Baseline

Speech

Awareness

ADLs

1% 60 - 65 y/o

30% - 50% >85 y/o



PARKINSON'S

Most common cause of parkinsonian Sx.

Dopamine deficiency.

Treatment has many side effects.

Multifaceted, often idiopathic disorder.

Bradykinesia

Rigidity

Resting Tremor



Bacterial infection

Increased incidence from:

Nursing homes (groups)

Poor swallowing

Decreased gag reflex

Decreased cough

Decreased immune system

PNEUMONIA

DIFFERENTIAL Dx.

Poorly expressed by the elderly

Fever / Chills (30%-60%)

#1 sign is delirium

Ronchi (rattles)

Gradual onset

Yellow or Green sputum

CXR (diagnostic)

COPD

CHRONIC BRONCHITIS

Increased secretion & wall thickening

CHRONIC EMPHYSEMA

Destruction of lung parenchyma

COPD

DIFFERENTIAL Dx

Dyspnea

Increased WOB

Wheezes

Pink Puffer

Blue Bloater

COPD

CO-FACTORS

Pneumonia

Pneumothorax

Difficulty in weaning

P.E.

Immobilization / Bed rest / Sedentary lifestyle

Recent Trauma or Surgery

DVT

Diagnostically confusing

Sudden tachypnea / dyspnea

Pleuritic (breathing) Chest Pain

Hemoptysis

R sided Heart Failure

Chronic or Acute

Interactive comorbidities

Impediments to flow

Heart damage

Fluid overload





CP

DOE

HTN

L - Pulmonary Edema

L - Orthopnea

L - Ronchi

R - Dependent Edema

R - JVD

Medications



CP / SOB (20%-60%)

Neurological Sx (15%-33%)

GI Sx (up to 19%)

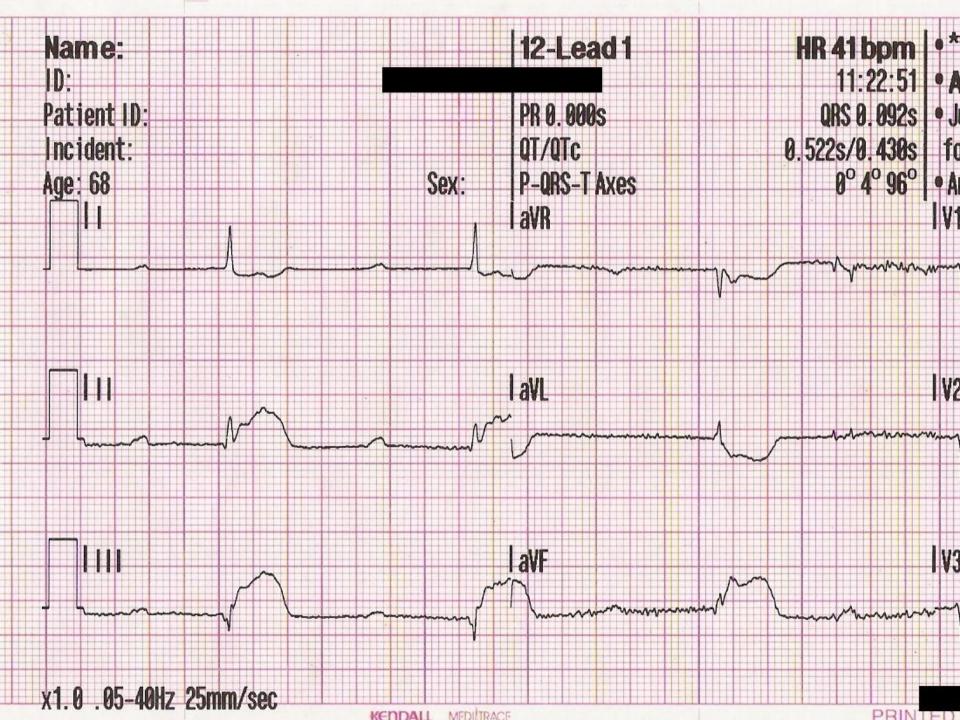
Palpitations / arrhythmia

General weakness

Restlessness

Asymptomatic!

Atypical presentations are typical.



GI

Upper G.I.

Lower G.I.

Type II is most common

Adult Onset

NIDDM

Level of glycemic control (<120 mg/dL)

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Exp. Date/ 04/2007 Control: \$P50679

List 369619

Major comorbid factor

Affective Disorders (Depression)

Neurotic Disorders (Anxiety)

Paranoid Disorders

AMS: AEIOU-TIPS

MEDICATIONS

Poor Compliance

Shared Medications

Self-Selection

Overdose

Underdose

Toxicity

Cross-Reactions

MEDICATIONS

High Risk Meds

2%

Oral Hypoglycemic 15%

Oral Antiplatelet 18%

> Insulins 19%

Warfarin 46%

ABUSE

Physical Abuse

Neglect

Psychological Abuse

Material Abuse

DNR

DNR vs Living Will vs HCPOA

Different forms from homes & E.C.F.s

When in doubt, call a Doc.



GOALS

Raise awareness

Raise understanding

Raise index of suspicion

Improve patient outcome

REMEMBER

BASIC

Treat with respect

Observe environment

In-depth assessment

REMEMBER

ADVANCED

Assessment

12 Lead EKG

Alerts (T, C, S)

Under treat / Over treat





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