FALL PREVENTION

the Advocacy
Alliance

Health Care Quality Units

Disclaimer

The information presented to you today is to health care practitioner or your agency policy. replace medical advice or instructions from your increase your awareness. It is not intended to



Objectives The participant will learn to identify:

- Risk factors for falls
- Complications of falls
- Prevention



Fall Facts

- Among older adults, falls are the leading cause of deaths resulting from injury.
- Falls are the most common cause of nonfatal injuries and hospital admissions for trauma
- The rates of fall related deaths among older adults rose significantly over the past decade.
- this is projected to climb to \$67.7 billion by 2020. In 2013, the total cost of fall injuries was \$34 billion,



Tall Facts

- One quarter of Americans aged 65 and older fall each year
- Ġ, an older adult dies from a fall. Every 11 seconds, an older adult is treated in the Emergency Department for a fall; every 19 minutes
- Men are more likely to die from a fall.
- Women are more likely to have a nonfatal fall injury.



Fall Facts

- 20-30% of the falls have moderate to severe injuries.
- Most common fractures are spine, hip, forearm, leg, pelvis, upper arm and hand
- reduced quality of life. Hip fractures cause the greatest number of deaths and lead to the most severe health problems and
- Among adults with intellectual disabilities, falls account for up to 50% of all injuries
- the protective reflexes or reactions necessary to Individuals with intellectual disabilities may not have prevent serious injuries when they fall.



Why People Fall

- Accidental falls related to environment.
- Gait and balance disturbances.
- Dizziness/ Vertigo.
- Confusion.
- Postural Hypotension.
- Decreased Vision.



How We Balance

Our Balance is based on four body systems:

- Visual System which includes the eyes and muscles people to see. and parts of the brain that work together to allow
- from blurring when the head moves and maintains general equilibrium and stops objects Vestibular System which is located in the inner ear



How We Balance

- Proprioceptive System helps us maintain awareness of (Field Sobriety Test) our position when walking, running or riding in a vehicle.
- Muscular-Skeletal System provides form, support, stability and movement to our bodies.



Environmental Risk Factors

- Floor or ground conditions.
- Wet or slippery surfaces.
- Uneven surfaces.
- Inclined surfaces.
- Throw rugs.
- Clutter
- Lighting



Balance Risk Factors: Vision

Any condition which diminishes visual input:

- Glaucoma
- Cataracts
- Uncorrected visual acuity.
- Brain injury affecting vision.
- Temporary visual changes- i.e. migraine headaches



Balance Risk Factors: Vestibular

- Disturbances with inner ear and brain.
- Labyrinthitis
- Meniere's Disease
- Acoustic Neuroma
- Vertigo
- Hearing deficits



Proprioceptive Balance Risk Factors:

- Parkinson's Disease
- Brain lesions
- Alcohol abuse
- Hydrocephalus
- Diabetes
- Vitamin B12



Balance Risk Factors: Muscle

- Deconditioning
- Arthritis
- Diabetes
- Dehydration
- Infection
- Edema

- Brain injury or disease.
- Muscle or joint injury.
- Immobility due to another condition.
- Insomnia



Risk Factors: Diseases and Conditions

- Heart disease/ orthostatic hypotension
- Arrhythmias
- Seizures
- Asthma, emphysema
- Stroke, TIA
- Recent Surgery
- Depression

- Incontinence/Urgency
- Osteoporosis
- Sleep Apnea
- Alzheimer's
- Seizures
- Cerebral Palsy
- Multiple Sclerosis



Risk Factors: Medications

- One third of all medications are prescribed for people aged >65
- of falling Taking four or more medications increases risk
- Most commonly prescribed drug types:
- Cardiovascular
- Analgesics
- Gastrointestinal



Medications

The most common 'Over the Counter' medications are:

- Laxatives
- Vitamins
- Antacids
- Analgesics
- **Antihistamines**



Medications

confusion, parkinsonism, ataxia, sedation). postural hypotension) or central actions (i.e. Drugs cause falls due to either peripheral (i.e.

- Drugs that cause postural hypotension:
- Diuretics
- Antihypertensives
- Antipsychotics
- Drugs for Parkinson's disease



actions Medications that have central

- Sleeping pills
- Sedatives
- Antipsychotics
- Drugs for nausea

- Drugs for dizziness
- Antidepressants
- Antiepileptics
- Alcohol



Miscellaneous Risk Factors

- Improper shoe and clothing fit.
- Functional or cognitive impairments.
- Previous falls.
- Vision Problems.



Complications

- Abrasions
- Bruises
- Lacerations
- Head Injuries
- Spinal Cord InjuriesInternal injuries

- Subdural Hematoma
- Death
- Loss of independence
- Change in home
- Need for additional supports
- Social withdrawal



Prevention

- Annual Physical.
- Routine eye exam.
- Eat healthy food.
- Keep active/exercise.

- Know and report medication side effects
- Wear properly fitted shoes/clothes.
- Proper body mechanics.



Prevention

- Adequate lighting.
- help with depth perception. Contrast in paint, furniture, and carpet colors can
- Avoid floor polish or wax.
- Avoid clutter/small objects on floors.
- Avoid "scatter" or "throw" rugs.



Prevention

- Add contrasting color strips to first and last steps to identify change of level.
- OT/PT evaluation.
- Adaptive equipment.
- Home modifications.



The reason behind the fall...

Is the key to preventing the next one.

- part of the ISP process Falls should be reviewed any time there is an injury that results in medical care and, at least annually as
- Should include a history of fall circumstances and tactors identification of possible internal and external risk
- It is important to realize that any fall has the potential to result in serious harm.



References

https://www.cdc.gov/homeandrecreationalsaf ety/falls/adultfalls.html

