Dementia: A Risk Factor for Falls



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> Alzheimer Society Dementia Care & Brain Health

Statistics:

- People with dementia are 4-5X more likely to fall than older people who do not have cognitive impairments.
 - Annual incidence of falls in people with dementia is 70-80% (Shaw, et al 2003)



Statistics:

- A study by Allan, et al (2005) noted risk factors related to gait or balance disturbances in:
 - 93% of people with Parkinson's dementia
 - 79% of people with vascular dementia
 - 75% of people with Lewy Body Dementia
 - 25% of people with Alzheimer's disease.
- Compared to 7% of the study control group.



Statistics:

- People with dementia who fall have a 3X higher risk of sustaining a fracture than cognitively well people. (Van Dijk, 1993)
- People with dementia who fall are 5X more likely to be institutionalized than older adults with dementia who do not fall. (Morris, et al 1987)



7A's of Dementia

- Anosognosia change in ability to have insight
- **Agnosia** change in ability to recognize sensory input
- **Aphasia** change in ability to communicate
- Apraxia change in ability to coordinate movement
- Altered Perception change in ability to interpret environment
- Amnesia change inability to retain information
- **Apathy** change in ability to initiate tasks.

http://www.alzheimer.ca/en/About-dementia/Dementias/What-is-dementia/Seven-A-s-of-dementia

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Points to consider when a person falls:

- Is there a reversible or co-morbid cause for the fall?
 - i.e. Urinary tract infection, dizziness, confusion, hallucination, arthritis, Parkinsons, orthostatic hypotension
- Is the person experiencing pain?
 - Has the person sustained a nonvisible injury?
- Is the person taking multiple medications?
 - Is the person experiencing a reaction or overmedication?
 - Is the person using alcohol?





Points to consider when a person falls:

- Has the person's mobility changed?
 i.e. gait, balance, muscle cramping, rigidity
- Is the person restless?
 - Are they searching for someone or something?
- Is the person fatigued?
- Does the person have visual impairment?
 - i.e. cataracts, glaucoma, limited visual field or problems with visual perception
- Are there hazards in the environment?





Multi-factorial Etiology of Falls

- A median of 4 risk factors for falls have been identified in cognitively impaired older adults. The most common risk factors are:
 - Impairment of gait and balance (99%)
 - Environmental hazards (80%)
 - Medication (70%)
 - Neurocardiovascular instability (60%)
 - Orthostatic hypotension (40%)





Effective Interventions that Reduce Risk Factors of Falls in General Population

- Exercise
- Physiotherapy & occupational therapy
- Review of medication
- Treatment of orthostatic hypotension
- Withdrawal of psychotropic medications
- Environmental modifications



When Communicating consider:

Attention

- Reduce distraction
- Obtain eye contact
- Introduce yourself





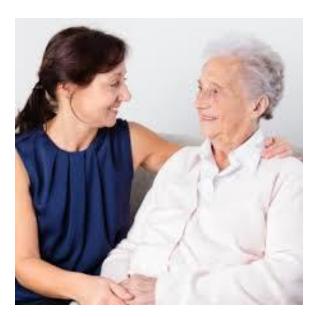
When Communicating consider:

- Attention
- Approach
 - Consider tone of voice
 - Watch non-verbal communication
 - Use a "Come-along" approach



When Communicating consider:

- Attention
- Approach
- Instruction
 - Use short, simple sentences
 - Give one step at a time
 - Use cues
 - Allow time





- Ensure adequate lighting
 - Increase lighting
 - Reduce glare
 - Limit shadows





- Ensure adequate lighting
- Provide visual contrast
 - Provide obvious colour contrast
 - Use solid colours with no patterns
 - Avoid black surfaces





- Ensure adequate lighting
- Provide visual contrast
- Keep pathways clear
 - Declutter
 - Ensure surfaces are level, dry and nonslip





- Ensure adequate lighting
- Provide visual contrast
- Keep pathways clear

• Enhance accessibility

- Keep important items in consistent, visible places within easy reach
- Lower the height of the bed; use a firm mattress
- Provide adaptive equipment



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- Ensure adequate lighting
- Provide visual contrast
- Keep pathways clear
- Enhance accessibility
- Reduce noise level
 - Decrease busyness in the environment
 - Consider going to a quieter area





- Ensure adequate lighting
- Provide visual contrast
- Keep pathways clear
- Enhance accessibility
- Reduce noise level
- Ensure adequate footwear
 - Check fit regularly
 - Use lace-up or Velcro closures
 - Check for proper soles
 - Use footwear suited to the weather



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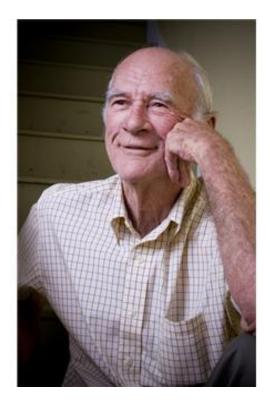
Fall Prevention and Bathing

- Incorporate bathing into familiar routine
- Organize all items needed for bathing
- Adjust water temperature for safety
- Utilize adaptive equipment





The greatest outcome of a reduced incidence of falls for a person with dementia is increased quality of life.





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alzheimer.mb.ca 204–943–6622 or 1–800–378–6699

