QUICK REFERENCE MATERIAL

Hip Protectors – Physiotherapy

Evidence Informed Practice

3 major strategies to prevent hip fractures:

- (1) Prevent falls
- (2) Enhance bone density
- (3) Protect the hip from impact

Effectiveness of hip protectors (HPs), in order of setting from greatest to least: residential care > acute care > community.

Hip fractures are rare for any older person who was correctly wearing a hip protector (HP) with proven ability to withstand the impact from a fall. It is recommended that older adults who are at risk for a hip fracture (most residents in residential care and older adults with prior low impact fractures or a diagnosis of osteopenia or osteoporosis in any setting) be encouraged to consider the use of validated brands of hip protectors.

Hip protector use should also be combined with individually tailored & proven fall prevention strategies such as:

Exercise prescription (particularly balance exercises)

Appropriate footwear (supportive and ideal grip for walking surface)

Adequate lighting

Modifications to environment (e.g. grab bars, bed height, removing clutter)

Mobility aids

Eyewear and hearing aids if required

Medical management (bisphosphonates, Vitamin D, calcium supplements)

Soft vs hard shell: both can be effective if worn properly but soft shells are often preferred by users There are many models available; their effectiveness is variable and dependent on multiple factors. Consult Figure 1, page 4 from "Hip protectors: What does the literature tell us? (Dunne & Hoens, 2010) for a comparison between models.

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Who may benefit from HPs

Falls history/risk

Osteoporosis Impaired cognition Incontinence

Berg less than 45 TUG more than 35 seconds Schmidt Falls Risk more than 3

Physiological profile assessment mild, or higher falls risk

How to prescribe HPs

Aim to wear 24 hours/day

Follow fitting instructions ensure proper shell placemement check placement often

2 to 3 pairs/person, or 3 to 5 if incontinent

Follow laundering instructions
Replace annually

How to enhance compliance

For the patient/family: Education on benefits Address issues of appearance and comfort

For the care staff:
education re the
consequences and
prevention of hip fracture
Designate a 'champion"
Collect and share data
Recognition program

Developed by

PHC PT Research Education and Practice Coordinator

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Last Revised:	
Approved By:	Professional Practice Leader Physiotherapy
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Owners:	Physiotherapy
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