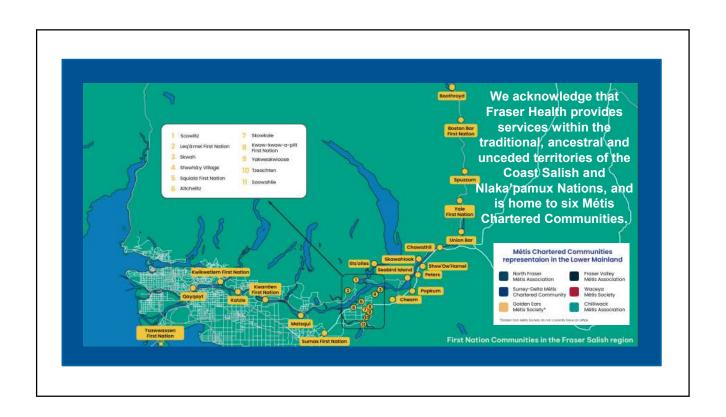
# Preventing Falls & Fall-Related Injuries

Falls & Injury Prevention Fraser Health Authority





# What is a fall?

An unintentional coming to rest on the ground, floor, or any other lower level, whether or not the person is injured

(World Health Organization, BC Ministry of Health, 2006)

### Senior's Falls In Canada

FALLS are the LEADING CAUSE OF INJURY among older Canadians
1 in 3 seniors fall each year\*



FALLS CAUSE:















Over 40% of people admitted to **LONG TERM CARE** facilities are fallers.



\*Older adults who need medical attention after a fall have a 70% chance of falling again in the next year!

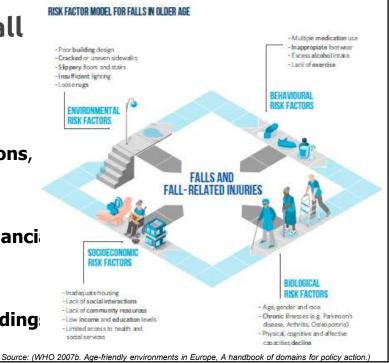


Of all falls causing a hospitalization happen at HOME

6

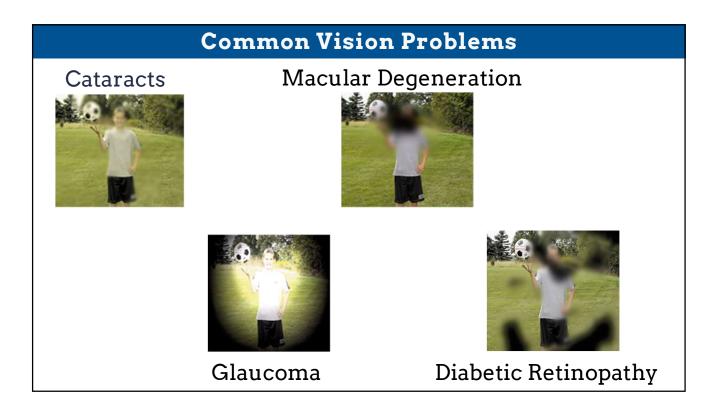
# Risk Factors for a Fall

- Biological
  - Related to human body
- Behavioural
  - Related to individual actions, emotions, choices
- Socioeconomic
  - Related to social and financial situation
- Environmental
  - Related to one's surrounding:









# **Vision Interventions**

**Correct Vision** 

Clean Glasses

Lighting







Avoid multifocal lenses

Use eye drops correctly

Modify environment







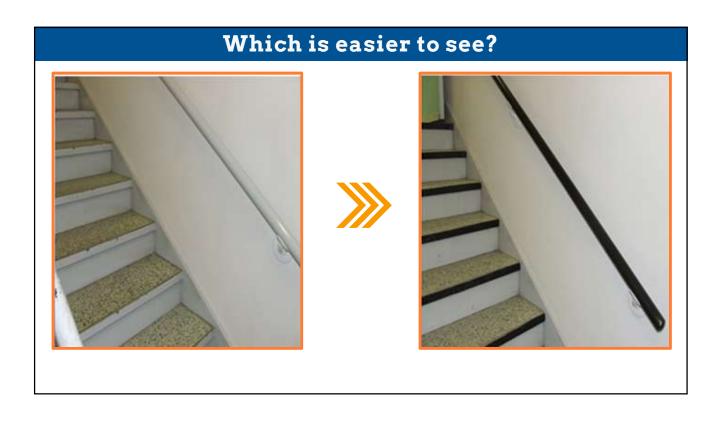
# Which is easier to see?



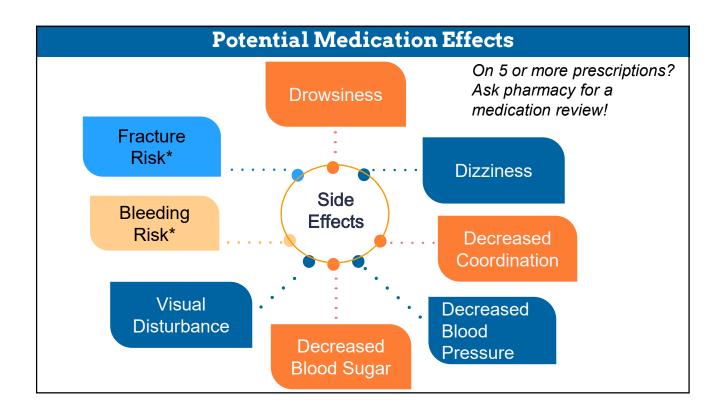


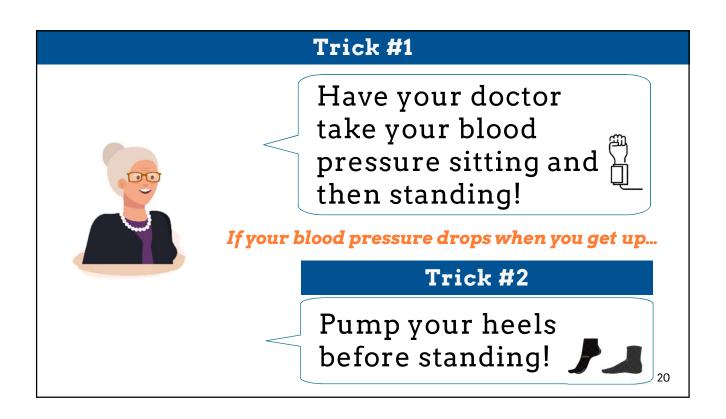


16









	Calcium & Vita	min D
AGE	CALCIUM	VITAMIN D
4 to 8	1000 mg	600 IU
9 to 18	1300 mg	600 IU
19 to 50	1000 mg	400 - 1000 IU
50+	1200 mg	800 - 2000 IU

# 8-1-1 HealthLinkBC

### What is it?

**8-1-1** is a **free** provincial health information and advice phone line available in BC.\*

Connect with a registered nurse, dietitian, exercise professional, or a pharmacist.\*

\*services vary by province

# Registered Nurses

- Can help with **non-emergency** health concerns, to discuss symptoms and procedures, and to recommend whether you should see a health care provider in person.

### **Registered Dietitians**

- Can answer your healthy eating and nutrition questions.
- Also provide services for oncology and allergy nutrition.
- Available from 9am to 5pm Monday Friday\*

### **Pharmacist**

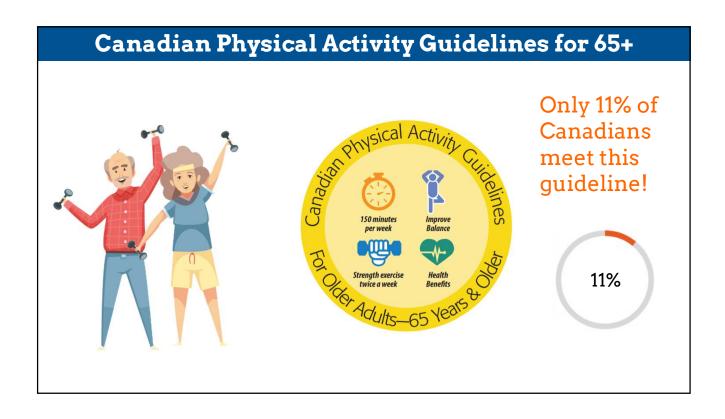
- Can answer questions about your medications
- Available every night from 5pm to 9am\*

### Qualified Exercise Professionals

- Can answer your physical activity & exercise questions.
- Can prescribe physical activity and provide exercise advice or quidance to individuals of all ages and abilities.
- Available from Monday to Friday from 9am to 5pm\*



# What YOU Can Do To Prevent Falls O1 VISION Have your eyes checked by an eye doctor O2 MEDICATION Get a medication review O3 EXERCISE Lower your risk by gaining strength and balance HOME SAFETY Remove risk factors within your home



# Canadian Physical Activity Guidelines for 65+

### A HEALTHY 24 HOURS INCLUDES:

### PHYSICAL ACTIVITY



150 minutes per week of moderate to vigorous aerobic physical activities



Muscle strengthening activities at least twice a week



Several hours of light physical activities including standing



Physical activities that challenge balance

### SEDENTARY TIME



Limit sedentary time to 8 hours or less



No more than 3 hours of recreational screen time



Break up long periods of sitting as often as possible

### SLEEP



Get 7 to 8 hours of goodquality sleep on a regular basis



Consistent bed and wake-up



Replacing sedentary behaviour with additional physical activity and trading light physical activity for more moderate to vigorous physical activity, while preserving sufficient sleep, can provide greater health benefits.

# What Does The Evidence Say?

"Exercise alone is as beneficial as a multifactorial falls prevention program"



- **Balance** activities: DAILY, challenging (e.g. Balance classes, Tai chi)
- **Strength** training: with resistance, ≥3x/wk
- Balance & Strength training can reduce falls by up to 50%



Walking does not improve balance or strength! ⊗ BUT it is very important for your health, mobility and brain! ©







## Slow Toe taps

(Can also be done sitting)



- Stand facing the kitchen sink. Hold on with both hands.
- Keep heel on floor and lift toes up. Hold. Relax.
- Slowly repeat on the other foot.
- Alternate, repeating 3 to 5 times with each foot.
- Gradually increase until you can do this for 2 minutes.

**Progression:** Gradually try to decrease the amount of support through your hands.



# **Up On Toes**



- Stand facing the kitchen sink. Hold on with both hands.
- 2. Go up on toes with both feet.
- Come down slowly.
- 4. Repeat 3 to 5 times if you can.
- Gradually add one more repetition every few days until you can do this 15 times.

**Progression:** Gradually try to decrease the amount of support through your hands.



# **Walking On The Spot**

(Can also be done sitting



- Stand facing the kitchen sink. Hold on with both hands.
- Walk slowly on the spot for 10 seconds.
- 3. Gradually increase your time up to 2 minutes.

Progression: Begin walking in your home for 3 to 4 minutes without stopping. Use a mobility aid that you normally use for walking.





### **Alternate Leg Behind**

- Stand facing the sink. Hold on with both hands.
- Lift one leg behind you, keeping knee straight.
- Return to starting position.
- Repeat with other leg.
   Continue to alternate each leg, repeating 3 to 5 times with each. Gradually do one more every few days or week.

**Progression:** Gradually try to decrease the amount of support through your hands.

# Sit To Stand/Slow Sitting



 Sit in a firm chair with arm rests. If needed, position your walker in front of you and lock the brakes. Bring your bottom a little closer to the front of the chair if needed.



- Bring your feet in close to the chair. Put hands on armrests if needed.
- 3. Lean forward and stand up.
- 4. Stand tall for a few seconds, holding onto walker if needed for support.
- Reach back to hold the armrests of the chair, lean forward, and slowly lower yourself to sit down.
- Stand up and sit down 3 to 5 times. Do one more every few days or week until you can do 15 at a time.

**Progression:** Gradually try to decrease the amount of support through your hands until you can stand up and sit down without using your arms.

# What YOU Can Do To Prevent Falls O1 VISION Have your eyes checked by an eye doctor O2 MEDICATION Get a medication review O3 EXERCISE Reduce your risk by gaining strength and balance HOME SAFETY Remove risk factors within your home

# Try To Stay Organized





# To Make Your Home Safer

Stay organized and remove clutter & tripping hazards



Use **non slip mats**, remove or secure throw rugs

Have railings at stairs and grab bars in shower



Consider other equipment for bath safety & mobility

Keep common items within easy reach, use safety stool



Good lighting is essentialespecially stairs & entry. Use **night lights**.

Do not rush! Get up slowly and take your time



Use **safe footwear**. Avoid long loose clothing and floppy shoes





# Tips for Using Walking Aids

Use your CANE on opposite side to weak leg.



'UP with the good, DOWN with the bad'

Walking Aids should be about wrist height.



Stay **CLOSE** to your walker and **stand** tall!

Always lock the brakes of your walker before getting up/down.



**Don't pull** on walker to get up – push from chair

Make **space** in your home so you can move safely.



Walking poles can improve balance & stability.

Images from www.freepik.com

# To Make Transfers Safer and Easier

### **Bath Lift**

- Portable, convenient
- Expensive, not covered





### Tub Transfer Bench

- Safe
- -Bulky





### **Bed Rail**

- Stable, effective
- Under mattress





### Lift Chair

- Comfortable, various styles
- Expensive, not covered

### Handy Bar

- Stable, effective
- -Fits in door latch



# **Hip Protectors**

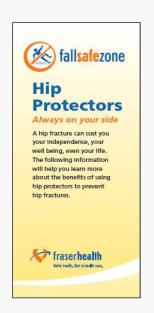


### How do they work?

- Absorb impact and
- Divert force away from hip bone

Can hip fractures be prevented or reduced?

- YES!
  - The chance of sustaining a hip fracture is reduced by up to ~ 70% when wearing hip protectors!



# Lifeline/Personal Fall Alert

### What is Lifeline?



- Personal emergency response service 'Help button'
- Works 24 hours a day, 7 days a week
- Waterproof wear in shower!
- Comfort and reassurance for loved ones also
- In-home only <u>vs</u> anywhere (GPS)
- Consider automatic Fall Detection
- Service available in many languages
- Many brands available beware of contracts!



# **Key Points**

Falls can be serious but are often **PREVENTABLE!** 



Get Connected! Learn about resources in your community.

Make your home safe!



Get your **medications** checked and **eyes** tested **every year!** 

Move more, Sit less!



**Balance** and **strength** training are critical!

Many risk factors can be corrected! ↓Risk = ↓Falls



Your independence is important – why risk it??

Images from www freenik cor

# **Fall Prevention Resources**

### Where to learn more:

- www.findingbalancebc.ca Resources for people at risk of falling, exercise videos \*coming soon\* (Jan 2024)
- www.healthlinkBC.ca (or call 811) to get health information and resources
- www.bc.211.ca (or call 211) to find community resources (transportation, food, housing, advocacy, finances, etc.)
- Community Exercise Programs: Osteofit, TIME, FAME, Get Up & Go!, balance and strength programs, etc.
- www.parachute.ca lots of fall prevention information