

Medications as We Age: How to Make the Most of Them and Prevent Harmful Effects

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Our plan for today

You will learn:

- Why does aging make us more sensitive to the effects of medications?
- In what situations would the risks of drug effects outweigh potential benefits?
- How can patients, caregivers and healthcare professionals work together to prevent harmful medication effects?



Disclosure: conflicts of interest

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I have no actual or potential conflict of interest in relation to this presentation.



Why take medications?

- Necessary for health
- Managing chronic conditions (e.g. diabetes, high blood pressure, chronic pain)
- Improving symptoms
- Prolonging life expectancy





DO NOT STOP ALL YOUR MEDICATIONS AFTER MY TALK



Why all the fuss about medications?





How many meds?

What percentage of community-dwelling older adults take:



5 or more different prescription medications?





10 or more different prescription medications?



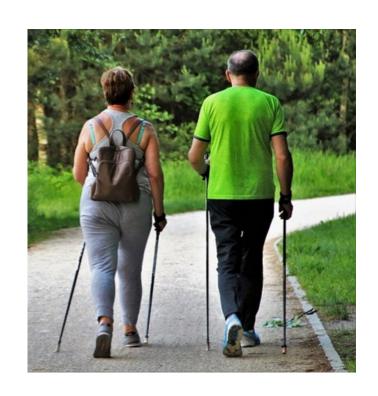
What percentage of people **over age 85** take **10+ medications?**





Older adults are a diverse group!

- Over 5.9 million Canadians are over age 65 (source: 2016 census)
- Over 90% live independently in the community
- 56% report being in good health







Why does aging make us more sensitive to the effects of medications?



As we get older

- We often need to take more medications to manage chronic conditions
- The benefits and risks of medications may change

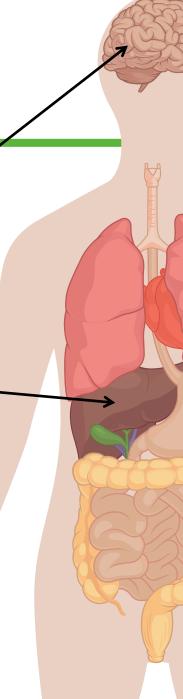




Our body changes as we age

- The brain becomes more sensitive to drug effects
- Medications stay longer in our body because we have less muscle and more body fat
- Our liver and kidneys do not ——
 process medications as efficiently
 as when we were younger
- Our body contains less water and some medications can become more concentrated





Who is most at risk of harmful effects of medication?

- 1. People with multiple chronic conditions
- 2. Women
- 3. People over age 65



Women are more at risk



Women are more at risk. Why?

- Longer life expectancy
- Suffer from more chronic conditions
- Take more medication
- Female biology and physiology increases the risk of harmful effects of medication





In what situations would the risks of drug effects outweigh potential benefits?



What is polypharmacy?

Polypharmacy means taking a combination of medications that does more harm than good.

Polypharmacy increases the risk of harmful effects of medications, such as:

- Drug interactions
- Falls & fractures
- Memory problems
- Hospitalizations





Higher risk of falling



Taking more medications increases your risk of falls

- Taking 4 to 7 medications doubles your risk of falls
- Taking 8 medications or more increases even more your risk of falls





Higher risk of drug interactions

Medications may have unpredictable effects when they interact with each other. Interactions can lead to harmful side effects or "cancelling out" the effect of a medication.

More medications means a higher chance of interactions

For example, when taking 8 to 10 medications, the risk of an interaction increases by 8 times.





Prescription medications are just a part of the picture!

Do you take any natural health products or over-the-counter medications?

- Natural health products include vitamin supplements and herbals
- Over-the-counter medications include commonly used medications like Tylenol

 , Advil

 or Gravol



Both natural health products as well as over-the-counter medications can cause interactions and/or side effects.



Polypharmacy also means...

Higher risk of forgetting medications or making mistakes while managing medications





What are risky medications?

- The potential risks of a medication outweigh the potential benefits.
- A safer alternative treatment for the same condition exists that is equally or more effective.





Sleeping pills are a risky med

Help you fall asleep faster

14 minutes faster on average

But increase the risk of:



Falls & fractures



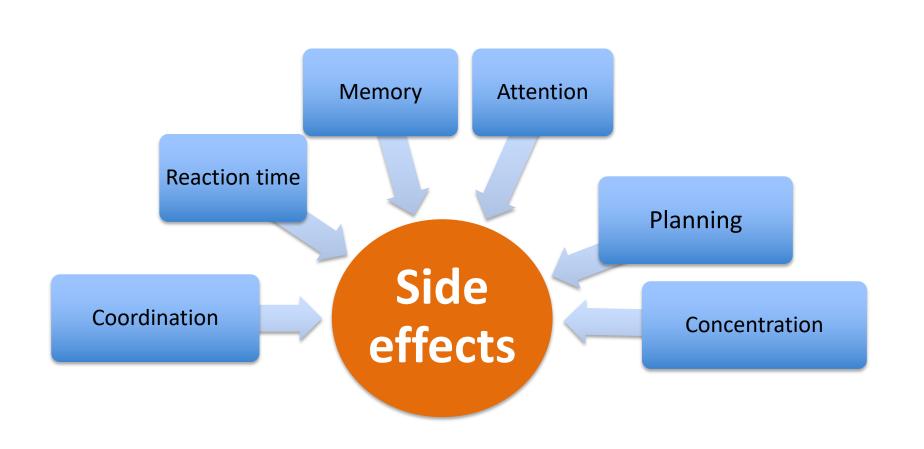
Motor vehicle accidents



Memory problems



Sleeping pills affect our brain in different ways





Older Canadians who take at least one risky medication

How many Canadians <u>over age 65</u> take risky medication?

31% of men 42% of women





Older Canadians who take at least one risky medication

How many Canadians <u>over age 85</u> take risky medication?

39% of men 47% of women





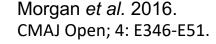
The cost of risky medication

\$419 million

Canadians spend \$419M per year on potentially harmful prescription medications. This does not include hospital costs.

\$1.4 billion

Canadians spend \$1.4B per year in health care costs to treat harmful effects from medications, including fainting, falls, fractures and hospitalizations.



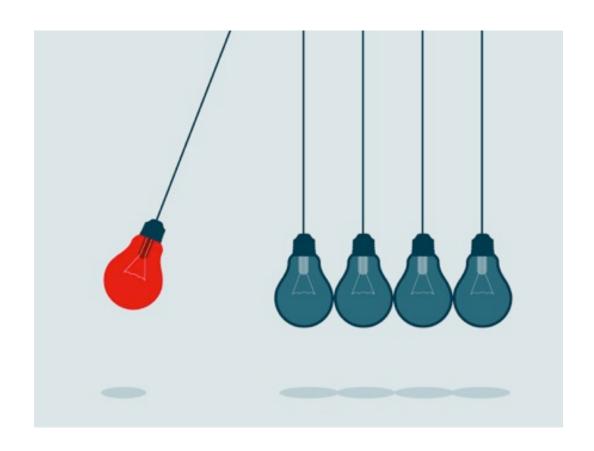




How can patients, caregivers and healthcare professionals work together to prevent harmful medication effects?



How can we create large-scale change?





What can be done?

Deprescribing means reducing or stopping medications that may not be beneficial or may be causing harm. The goal of deprescribing is to maintain or improve quality of life.



Deprescribing must always be done as a team with your doctor, nurse or pharmacist.



As an individual: what can you do?

Make a special appointment with your doctor, pharmacist or nurse to ask if you can reduce your medications.

71% of older Canadians are willing to stop a medication if their doctor says it is possible.

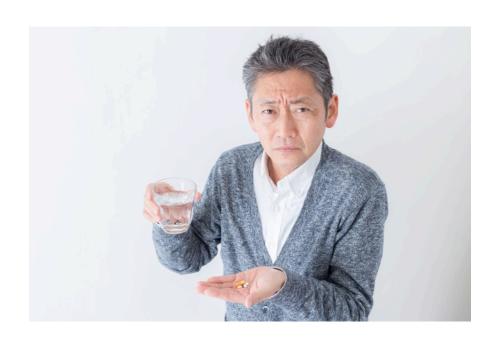
Sirois *et al.* 2016. Research in Social and Administrative Pharmacy (4):864-870



Always speak to your doctor, pharmacist or nurse before stopping any medication.



1. Why am I taking this medication?





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- 2. What are the potential benefits and harms of this medication?





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- 3. Can it affect my memory or cause me to fall?
- 4. Can I stop or reduce the dose of this medication?
- 5. Who do I follow up with and when?



What can you do?

- Inform yourself about your medications and why you are taking them.
- Engage in a discussion with your doctor, pharmacist or nurse about deprescribing options and alternate therapies.
- Spread the word about deprescribing to friends and family, advocacy groups and government representatives.

Ask questions, stay informed, be proactive, and participate in making informed choices!



Denmark is not taking any chances...

 Driver Licensing Incentive Policy

 Seniors on strong sleeping pills not allowed to renew their driving license







Denmark is not taking any chances...

Driver Licensing Inconting

Policy

 Seniors on not allowed driving lice The policy was very effective:

Sleeping pill use decreased by **66%** (but this took 10 years)





Check out these <u>free</u> medication safety and deprescribing resources



Medication Safety Toolkit



Available online at https://www.deprescribingnetwork.ca/



Brochures – please share!





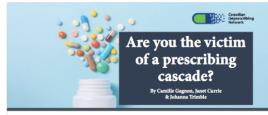




Articles







What is a prescribing cascade?

A prescribing cascade can happen when you and/or you health providers do not realize new symptoms are actually the side effects of one of your medications. When this happens, you may be disposed with a new medical condition. As a result, often your health provider will prescribe a new medication to treat the side effects of the first medication.

Whenever you take a medication, there is a risk you will experience a side effect. The more medications you take, the greater your risk of side effects.

Whenever you experience new symptoms, you and your health providers should always first consider whether they could be caused by medications you are currently taking. This will help avoid a common preventable problem called

Your new medication may also have side effects. When you and/or your health

another new health condition, this can lead to more prescriptions. What happens next? Too often, you can end up taking a cascade of new medications which are not needed and which can cause harm.

Mrs. Reynolds' story

At 75, Mrs. Reynolds started having trouble falling asleep. She felt like she was spending hours tossing and turning. Her daily routine hadn't changed: she wistled with friends, went for her daily walk, and made sure to keep her coffee consumption low. Her medications hadn't changed either. She'd been taking medications regularly for depression, high cholesterol and high blood pressure for wears.

Hoping it would help her get a good night's sleep, Mrs. Reynolds bought a box of sleeping pills (Sleep-Eze") at the pharmacy and took one that evening. Although it didn't help, she thought it would be worth trying them a little longer. But over the next few days, Mrs. Reynolds noticed her mouth started feeling dry, which forced her to keep a glass of water on her bestide table. In the mournings, she woke up feeling progy and constipated. Meanwhile, her sleep hadn't improved. Feeling frustrated, she decided to go see her pharmacist Nadia about these new symptoms as well as about her sleep problem.



Canadians are spreading the word!











Question & Answers





Learn more about the Canadian Deprescribing Network and stay in touch:

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