

# Deprescribing guidelines

Supporting decisions to reduce  
or stop medications

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# Disclosures

## Competing interests

**Relationships with commercial interests:** none

**Speakers Bureau/Honoraria:** Pharmacy Practice Plus magazine

**Consulting Fees:** none

**Grants/Research Support:** CIHR, Michael Smith Health Research BC, National Institute on Aging (US)

## Who pays me

**Assistant Professor** – Department of Anesthesiology, Pharmacology, and Therapeutics- **UBC** (tenure-track salary)

**Pharmacist** – Providence Healthcare LTC (**Fraser Health** pays me)



deprescribing.org

Reducing medications safely  
to meet life's changes

Moins de médicaments, sécuritairement –  
pour mieux répondre aux défis de la vie

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**Dr. Barb Farrell**



**Dr. Lisa McCarthy**

# Today

Why deprescribing  
guidelines?

Developing deprescribing  
guidelines

Getting guidelines  
into practice

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# 10

Average # of  
medications  
taken by LTC  
residents in  
Canada

(Canadian Institute for Health  
Information)

# HOW DOES THIS HAPPEN?

In and out of hospital

Multiple prescribers

Fear of “rocking the boat”

Guidelines





**66 years old**



**84 years old**

More medications

More chronic diseases

Change in function, activities

Change in “what matters most”

What is necessary,  
beneficial, and safe  
can change

# LIFE CHANGES



Reassessing medications is  
good practice

# Reassessment

“A conversation about options”

“A medication checkup”

”Medication review”

# Possible outcomes

Starting a medication

Increasing a dose

**Backing off**  
(deprescribing)

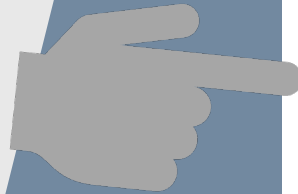
Making sure medications are a good fit an individual person



# Backing off

When/if?

How?



**Deprescribing  
guidelines**



[deprescribing.org](https://www.deprescribing.org)



**Deprescribing  
guidelines**

**Supporting  
decisions to  
continue or  
stop/reduce  
medications**

**Today**

Why deprescribing  
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## What Are Priorities for Deprescribing for Elderly Patients? Capturing the Voice of Practitioners: A Modified Delphi Process

Barbara Farrell  , Corey Tsang , Lalitha Raman-Wilms , Hannah Irving , James Conklin , Kevin Pottie 

PPIs  
BZRAs  
Antipsychotics  
Diabetes medications  
Cognitive enhancers  
Statins



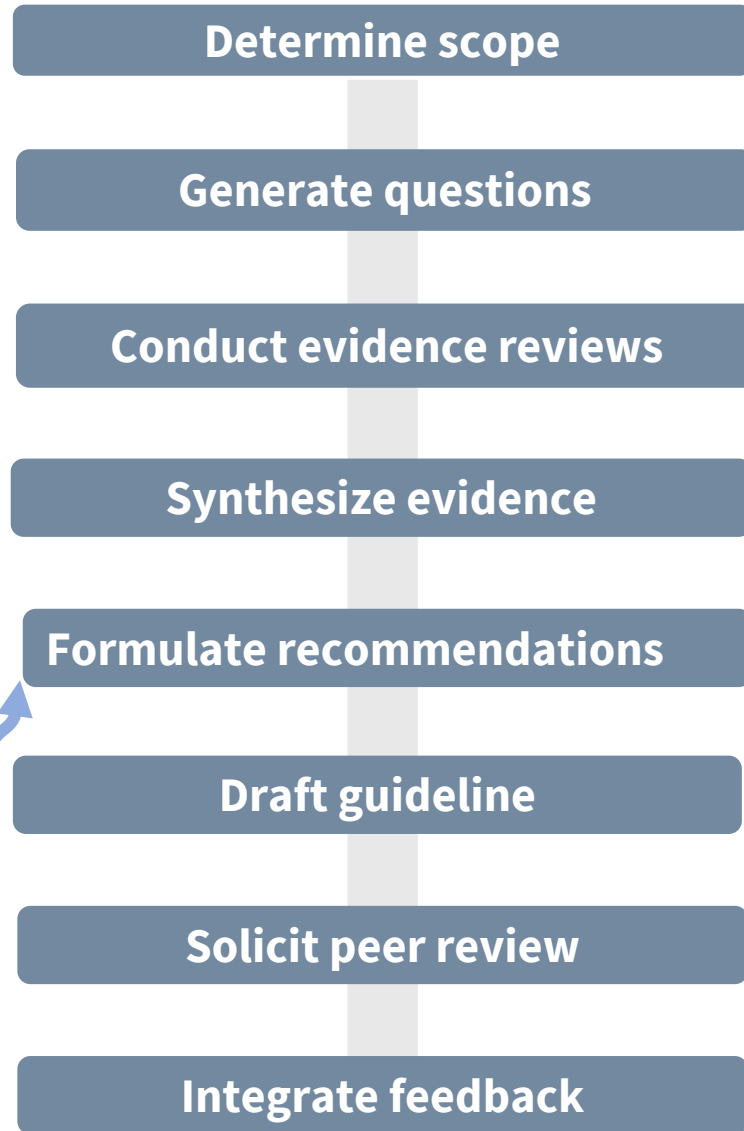
**Dr. Barb Farrell**

# Guideline methods: GRADE approach



**Guideline panel**

Voting



**Deprescribing guideline**

RESEARCH ARTICLE

Methodology for Developing Deprescribing Guidelines: Using Evidence and GRADE to Guide Recommendations for Deprescribing

Barbara Farrell<sup>1,2,3\*</sup>, Kevin Pottie<sup>1,2,4\*</sup>, Carlos H. Rojas-Fernandez<sup>3,5‡</sup>, Lise M. Bjerre<sup>1,2,4‡</sup>, Wade Thompson<sup>1,4‡</sup>, Vivian Welch<sup>1,4‡</sup>

# Guideline panel



Family physicians

Nurses

Pharmacists

Specialists

Patients





Determine scope

The flowchart illustrates the process of guideline development. It consists of eight horizontal bars representing steps, arranged vertically. A large grey arrow points downwards through the center of these bars. A dashed blue box encloses the first step, 'Determine scope'. A blue bracket on the left side of the chart spans from the top step to the bottom step.

Generate questions

Conduct evidence reviews

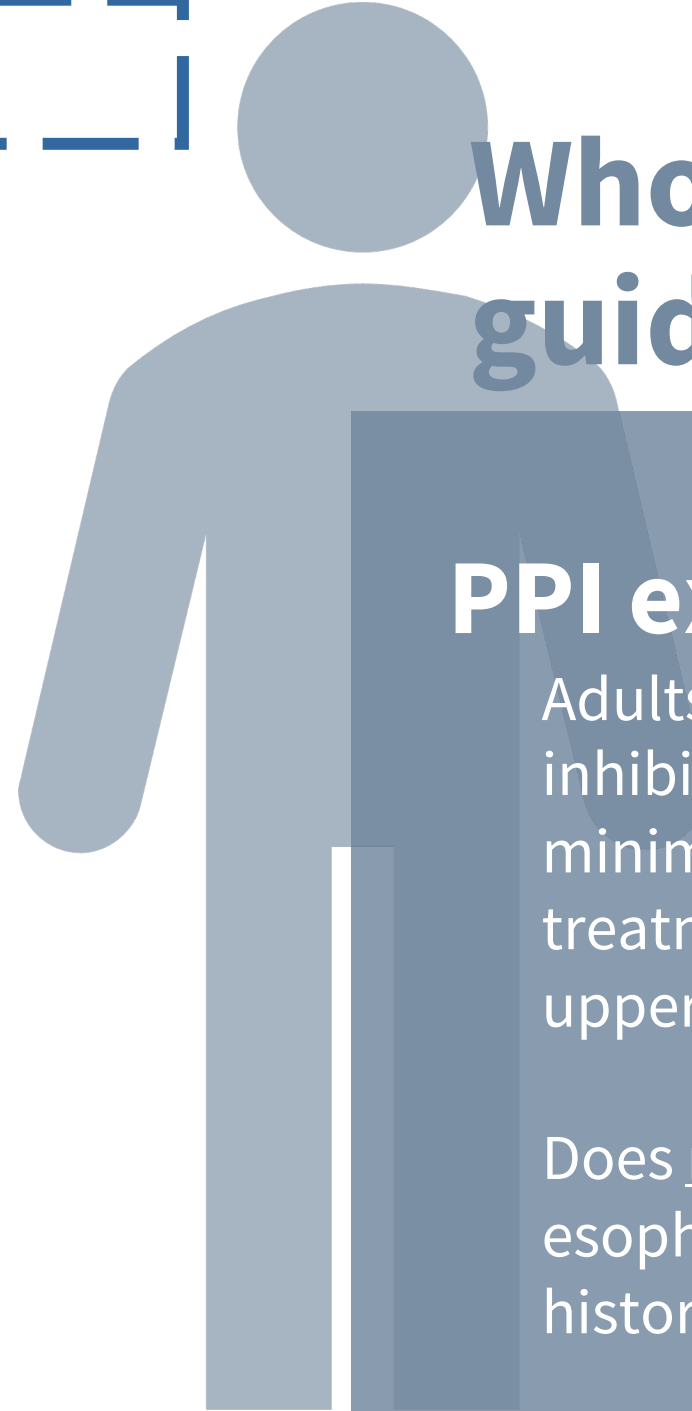
Synthesize evidence

Formulate recommendations

Draft guideline

Solicit peer review

Integrate feedback



# Who does the guideline apply to?

A stylized grey human figure is positioned to the left of the text, partially overlapping the 'PPI example' section.

## PPI example

Adults (>18 y) taking proton pump inhibitors who have completed a minimum 4-week course of PPI treatment resulting in resolution of upper GI symptoms

Does not apply to people with Barrett esophagus, severe esophagitis, or a history of GI bleeding

Determine scope

**Generate questions**

Conduct evidence reviews

Synthesize evidence

Formulate recommendations

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# Generate questions

**! Benefits and harms of deprescribing versus continuation?**

Benefits and harms of starting/ongoing use?

Acceptability, feasibility of deprescribing?

Resource implications

Patient/carer values and preferences?

Determine scope

Generate questions

Conduct evidence reviews

Synthesize evidence

Formulate recommendations

Draft guideline

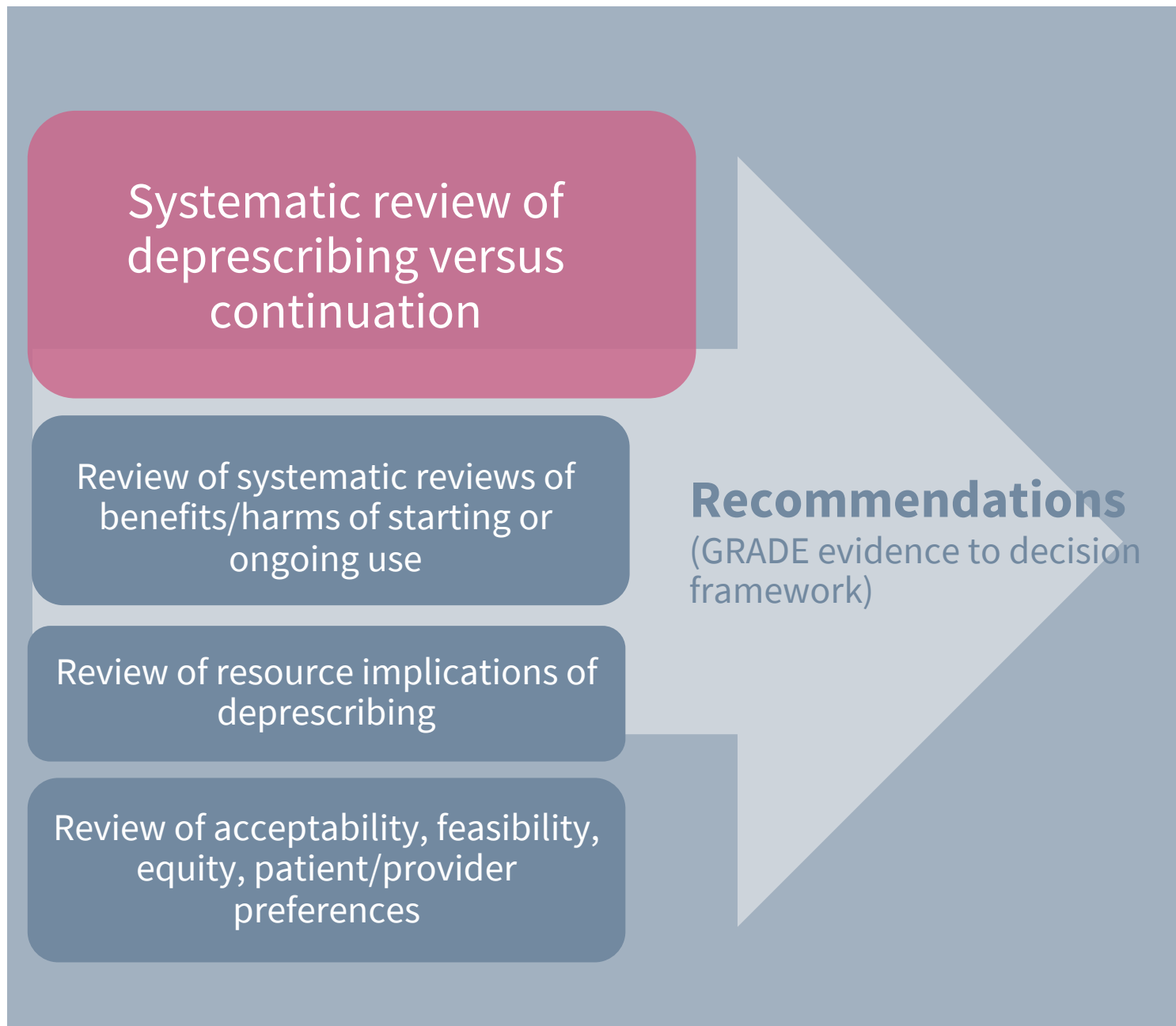
Solicit peer review

Integrate feedback

# Key question

! **Benefits and harms of deprescribing versus continuation?**

What are the benefits and harms of stopping or reducing antihyperglycemics compared with continuation among older adults?



## Systematic review of deprescribing versus continuation





Canadian Journal of Diabetes  
Volume 46, Issue 5, July 2022, Pages 473-479



Original Research

### Benefits and Harms of Deprescribing Antihyperglycemics for Adults With Type 2 Diabetes: A Systematic Review

ZhiDi Deng BSc<sup>a</sup>, Wade Thompson PharmD, PhD<sup>b,c,d</sup>, Clara Korenvain PharmD<sup>b</sup>,  
Iliana C. Lega MD, MSc, FRCPC<sup>b,e</sup>, Barbara Farrell PharmD<sup>f,g,h</sup>, Heather Lochnan MD, FRCPC<sup>i</sup>,  
Lisa M. McCarthy PharmD, MSc<sup>a,b,e,f,h,j</sup>  

No clinically important changes in glycemia

Possible reductions in adverse drug events

Very low certainty evidence

# Deprescribing antihyperglycemics

Systematic review of  
deprescribing versus  
continuation

Feasible, safe

Review of systematic reviews of  
benefits/harms of starting or  
ongoing use

Harms > benefits

Review of resource implications of  
deprescribing

Drug costs, hypoglycemia

Review of acceptability, feasibility,  
equity, patient/provider  
preferences

Lower treatment  
burden, QoL

**Recommendations**

Deprescribing  
antihyperglycemics

## **People >65 y taking $\geq 1$ antihyperglycemic for T2DM meeting $\geq 1$ of the following**

- Elevated risk of hypoglycemia (e.g. due to advanced age, intensive glycemic control, taking SU/insulin)
- Elevated risk of other adverse effects
- Benefit uncertain (frail, living with dementia, limited life expectancy)

## **We recommend**

- Deprescribing antihyperglycemic agents that are known to contribute to hypoglycemia (STRONG, VERY LOW CERTAINTY EVIDENCE)
- Deprescribing antihyperglycemic agents in patients that are experiencing or at risk of adverse effects (GOOD PRACTICE)
- Individualizing glycemic targets to goals of care and time to benefit according to the Diabetes Canada guidelines (STRONG, VERY LOW CERTAINTY EVIDENCE)

Deprescribing  
antihyperglycemics  
recommendations

Determine scope

Generate questions

Conduct evidence reviews

Synthesize evidence

Formulate recommendations

**Draft guideline**

Solicit peer review

Integrate feedback

# Draft guideline

## Clinical considerations

Stop abruptly or taper

Monitoring

Talking to patients/carers

Incorporating frailty, life expectancy into decisions

When to re-start?

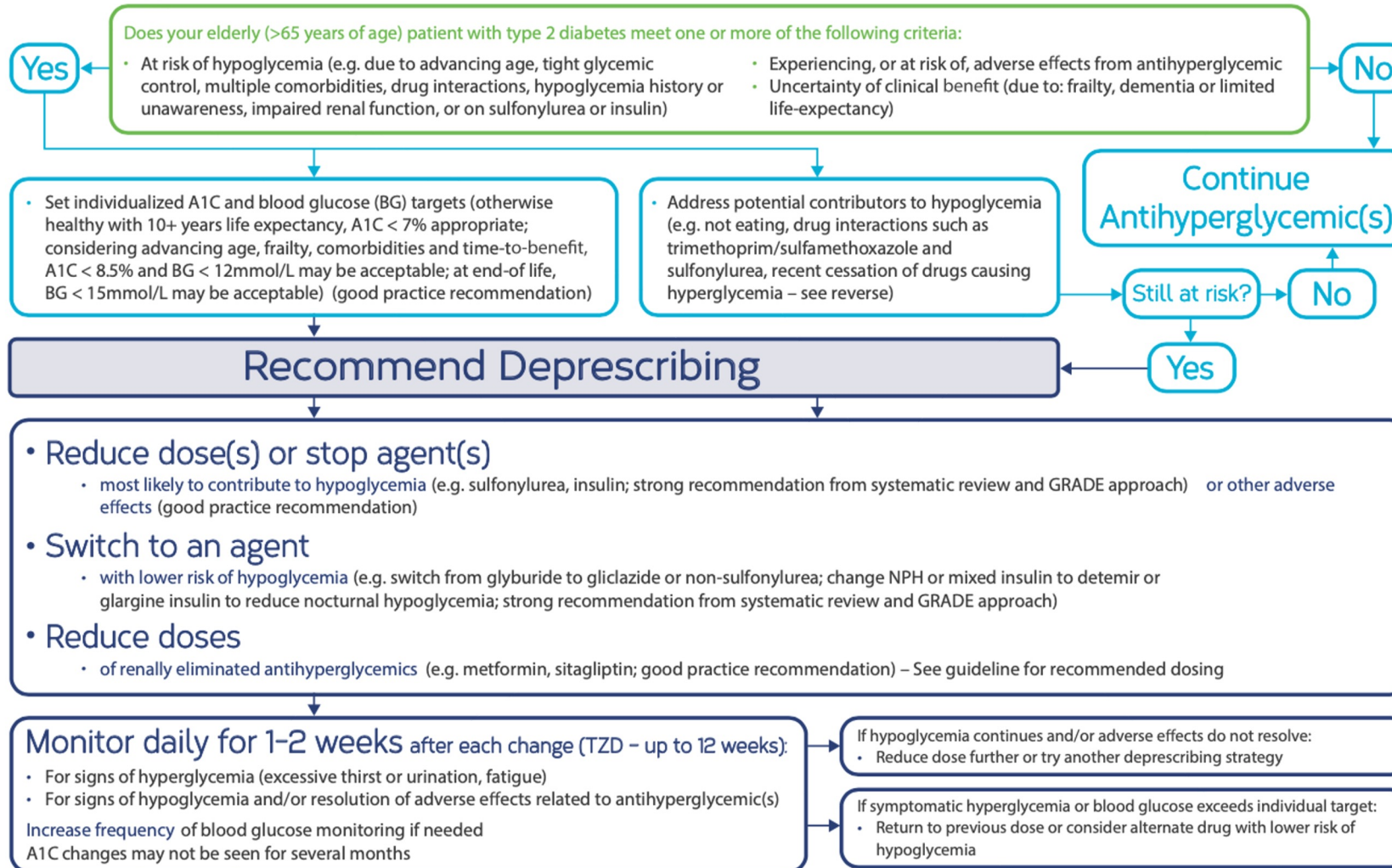


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Farrell B, Black C, Thompson W, McCarthy L, Rojas-Fernandez C, Lochnan H, et al. Deprescribing antihyperglycemic agents in older persons. Evidence-based clinical practice guideline. Can Fam Physician 2017;63:832-43 (Eng), e452-65 (Fr).



# Guidelines and algorithms

# 5

## Guidelines and Algorithms

The image displays five overlapping clinical algorithms for deprescribing various medications, each provided by the organization 'depressing.org'.

- Proton Pump Inhibitor (PPI) Deprescribing Algorithm (August 2018):** Starts with 'Why is patient taking a PPI?' and branches based on whether the indication is still unknown, mild to moderate GERD, or chronic. It includes steps for 'Engage patient', 'Taper and stop', and 'Monitor every 1-2 weeks'.
- Benzodiazepine & Z-Drug (BZRA) Deprescribing Algorithm (August 2018):** Starts with 'Why is patient taking a BZRA?' and branches based on whether the patient has insomnia, other sleeping disorders, or is on their own. It includes steps for 'Engage patient', 'Taper and stop', and 'Monitor every 1-2 weeks'.
- Antihyperglycemics Deprescribing Algorithm (August 2018):** Starts with 'Does your elderly (>65 years of age) patient with type 2 diabetes meet one or more of the following criteria?'. It includes steps for 'Engage patient', 'Taper and stop', and 'Monitor every 1-2 weeks'.
- Cholinesterase Inhibitor (ChE) and Memantine Deprescribing Algorithm (January 2018):** Starts with 'Is the person taking the medication for one of the following reasons?'. It includes steps for 'Engage patient', 'Taper and stop', and 'Monitor every 1-2 weeks'.
- Antipsychotic (AP) Deprescribing Algorithm (August 2018):** Starts with 'Why is patient taking an antipsychotic?'. It includes steps for 'Engage patient', 'Taper and stop AP', and 'Monitor every 1-2 weeks'.

Each algorithm includes a flowchart with decision points, boxes for 'Engage patient', 'Taper and stop', and 'Monitor every 1-2 weeks'. The algorithms also include a 'Record' section and a 'Continue' section. The algorithms are provided by 'depressing.org' and include a disclaimer: '© Use freely, with credit to the authors. Not for commercial use. Do not modify or translate without permission. The work is licensed under a Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International License. Contact: [depressing.org](mailto:depressing.org) or [depressing@depressing.org](mailto:depressing@depressing.org) for more information. Source: [Author names].

# Website

Clinician  
resources

Patient  
education

# Social media



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@deprescribing



@deprescribing.org



@deprescribing

# Spreading the word

# Our Digital Reach

**11,800**

X/Twitter Followers

**1,917**

Newsletter Subscribers

**>3 million**

Total Page Views

**1,190**

YouTube Subscribers

> 78 K Total Views

**~85,000**

Unique Website Users

Annually

**2,992**

LinkedIn Followers

\* Since June 2023

**30**

Translations and  
modifications to date



# Implementation projects

Community pharmacies

Long-term care

Hospital

Kaiser Permanente, IHI,  
Choosing Wisely, others

# Upcoming work

Statin deprescribing  
guideline

Updating guidelines

Supporting others

Diuretics, antihypertensives

Treatment guidelines



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# QUESTIONS

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<b>Grade</b>	<b>Definition</b>
<b>High</b> ⊕⊕⊕⊕	We are very confident that the true effect of statin discontinuation lies close to our estimate of the effect
<b>Moderate</b> ⊕⊕⊕○	We believe the true effect is probably close to our estimate of the effect
<b>Low</b> ⊕⊕○○	The true effect might be markedly different from our estimate of the effect
<b>Very low</b> ⊕○○○	We have very little confidence in our estimate of the effect, the true effect is probably markedly different from our estimate of the effect

# Certainty of evidence

	<b>Strong Recommendation</b>	<b>Weak/Conditional Recommendation</b>
<b>For patients</b>	Most would want the recommended course of action	Many individuals would want the recommended course of action, but some may not.  People will want to talk to a healthcare professional to make the decision
<b>For clinicians</b>	Most individuals should receive this course of action	Different choices will be appropriate for different patients, and you must help each patient arrive at a management decision consistent with their values and preferences.
<b>Example Wording</b>	“We recommend” “Clinicians should”	“We suggest” “Clinicians might” “We conditionally recommend”

# Strength of recommendation