

Heart Disease Community of Practice Series 2

De-prescribing cardiac and other medications: palliative care
in people with advanced heart failure



Facilitator: Diana Vincze, Pallium Canada

Presenters: Dr. Caroline McGuinty & Dr. Leah Steinberg

Date: 15 November 2023

Territorial Honouring



The Palliative Care ECHO Project

The Palliative Care ECHO Project is a 5-year national initiative to cultivate communities of practice and establish continuous professional development among health care providers across Canada who care for patients with life-limiting illness.

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The Palliative Care ECHO Project is supported by a financial contribution from Health Canada. The views expressed herein do not necessarily represent the views of Health Canada.



Introductions

Facilitator

Diana Vincze

Palliative Care ECHO Project Manager, Pallium Canada

ECHO Support

Aliya Mamdeen

Program Delivery Officer, Pallium Canada

Presenters

Dr. Caroline McGuinty, MD FRCPC

Cardiologist, Advanced Heart Failure and Transplantation, Cardiac Palliative Care

University of Ottawa Heart Institute

Assistant Professor, University of Ottawa

Dr. Leah Steinberg, MD, CFPC, FCFP, MA

Palliative Care Clinician, Sinai Health System

Assistant Professor, Division of Palliative Care, University of Toronto

Introductions

Panelists

Dr. Lynn Straatman, MD FRCPC

Clinical Assistant Professor, UBC
Department of Medicine (Cardiology and Palliative Care)
Department of Pediatrics (Adolescent Health)
Medical Director, Cardiac Function Clinic
Co-chair Physician Diversity, Equity and Inclusion
Committee, VCH

Dr. Michael Slawnych, MD FRCPC

Clinical Assistant Professor
Department of Cardiology, St Paul's Hospital
University of British Columbia

Morgan Krauter, NP, CCN(C)

Nurse Practitioner, Heart Function

Shannon Poyntz, NP-PHC, MN

Nurse Practitioner, Supportive Care

Drew Stumborg, RN

Saskatchewan Health Authority

Disclosure

Relationship with Financial Sponsors:

Pallium Canada

- Not-for-profit
- Funded by Health Canada
- Boehringer Ingelheim supports Pallium Canada through an in-kind grant to expand interprofessional education in palliative care.

Disclosure

This program has received financial support from:

- Health Canada in the form of a contribution program
- Pallium Canada generates funds to support operations and R&D from Pallium Pocketbook sales and course registration fees
- An educational grant or in-kind resources from Boehringer Ingelheim.

Facilitator/ Presenter/Panelists:

- Diana Vincze: Palliative Care ECHO Project Manager at Pallium Canada.
- Morgan Krauter: None to disclose.
- Dr. Michael Slawnych: Novartis.
- Dr. Leah Steinberg: Pallium Canada (education material), HPCO (clinical advisory committee, educator).
- Dr. Caroline McGuinty: Servier (consulting fees), Novartis (speaker fees).
- Dr. Lynn Straatman: Servier, Novartis, Astra Zeneca, BI, Medtronic, Pfizer, Eli Lilly, Bayer, Merck (clinical trials).
- Shannon Poyntz: None to disclose.
- Drew Stumborg: None to disclose.

Disclosure

Mitigating Potential Biases:

- The scientific planning committee had complete independent control over the development of program content

Welcome and Reminders

- Please introduce yourself in the chat!
- Your microphones are muted. There will be time during this session for questions and discussion.
- You are also welcome to use chat function to ask questions, add comments or to let us know if you are having technical difficulties, but also feel free to raise your hand!
- This session is being recorded and will be emailed to registrants within the next week.
- Remember not to disclose any Personal Health Information (PHI) during the session.
- This 1-credit-per hour Group Learning program has been certified by the College of Family Physicians of Canada for up to **6 Mainpro+** credits.
- This event is also an Accredited Group Learning Activity through the Royal College of Physicians and Surgeons of Canada. You may claim a maximum of **6.00 hours**.

Objectives of this Series

After participating in this program, participants will be able to:

- Describe what others have done to integrate palliative care services into their practice.
- Share knowledge and experience with their peers.
- Increase their knowledge and comfort around integrating a palliative care approach for their patients with advanced heart failure.

Overview of Topics

| Session # | Session title | Date/ Time |
|-----------|--|-----------------------------------|
| Session 1 | Update to medical management of HF decompensations in the community, including Cardiorenal dysfunction: how to manage with a palliative approach to care | November 16, 2022 from 12-1pm ET |
| Session 2 | Demystifying ICDs – do you always need to deactivate? | January 18, 2023 from 12-1pm ET |
| Session 3 | Complex case management/ Patients with complex goals of care | March 15, 2023 from 12-1pm ET |
| Session 4 | Diuretic management in the community: Lasix, Metolazone and Bumetanide | May 17, 2023 from 12-1pm ET |
| Session 5 | Multi-morbidity and Heart Failure- Managing Patients with Multiple Illnesses | September 20, 2023 from 12-1pm ET |
| Session 6 | De-prescribing cardiac and other medications: palliative care in people with advanced heart failure | November 15, 2023 from 12-1pm ET |

Objectives of this Session

After participating in this session, participants will be able to:

- Gain familiarity with the general principles of deprescribing in advanced heart failure.
- Learn how to make patient-specific decisions in the care of patients with advanced heart failure.
- Appreciate the need for value-based discussions around deprescribing.

Review of cardiac medications

Quadruple therapy: Guideline Directed Medical Therapy in HFrEF



<https://tools.cep.health/tool/managing-patients-with-heart-failure-in-primary-care/#hfpharm>

Quadruple therapy: Guideline Directed Medical Therapy in HF

ACE/ARB/ARNI

- Ace-Inhibitors: Enalapril, Lisinopril, Perindopril, Ramipril, Trandolapril
- ARB: Candesartan, Valsartan
- ARNI: Sacubitril-Valsartan

Beta Blockers

- Bisoprolol
- Carvedilol
- Metoprolol (CR/XL)

MRA

- Spironolactone
- Eplerenone

SGLT2

- Dapagliflozin
- Empagliflozin
- Canagliflozin

Additional cardiovascular medications you will see

Diuretics

- Loop: furosedemide, bumetanide
- Thiazide: hydrochlorothiazide
- Thiazide-like: metolazone

Statins

- Atorvastatin
- Simvastatin
- Pravastatin

Anticoagulants

- Rivaroxaban
- Apixaban
- Warfarin

Antiplatelet

- Clopidogrel (Plavix)
- Ticagrelor (Brilinta)
- Prasugrel (Effient)
- Aspirin

Antiarrhythmics

- Amiodarone

Adjunct

- Sinus node inhibitor: ivabradine
- Vasodilator: hydralazine/isosorbide dinitrate
- Cardiac glycoside: digoxin

Why deprescribe?

Why think about deprescribing

- It is an integral component of good prescribing practices to:
 - Avoid unnecessary polypharmacy
 - Avoid increasing side effects
 - **Align medications with goals of care**
- Deprescribing guidelines exist (BEERS, Canadian Deprescribing Network) but they deal with medications like benzodiazepines, anti-psychotics, etc.
- Those guidelines do not address typical cardiac medications

When should we consider
deprescribing?

Symptomatic hypotension

No specific approach for GDMT:
individualized approach based on
comorbidities (CKD, AF/arrhythmia)

Stop medications without cardiac
benefit: calcium channel blockers,
alpha blockers

Sacubitril/Valsartan (Entresto) has
greater effect on BP

Renal failure (or worsening GFR)

Titrate diuretics carefully

ACEi/ARB/ARNI/MRA

SGLT2i based on GFR

Patient-related factors

Pill-burden

Decreasing oral intake

Loss of oral route

Others?

Strategies for patient-specific desprescribing

Deprescribing

1. Make decisions on an individual basis
2. Start with drugs with long-term effects (statins, aspirin) as typically no further benefit
3. Evaluate risks/benefits for other cardiovascular medications
4. Use good communication skills as often patients were told these are “lifelong therapies”

Statins

- Evidence that statins are safe to stop
- Generally, burden outweighs benefit
- Don't assume people are keen to stop as they have a long history of being told they need to be on it “for life”

Statins – Kutner JS study

- Randomization 381 patients with life expectancy 1-month to 1-year
- Continue vs. discontinue statin therapy
 - No difference in 60-day mortality
 - No difference in cardiovascular events
 - QOL better in the discontinuation arm
 - Daily cost savings of \$3.37 (\$716 annually)
- Can extrapolate to other anti-lipid agents: niacin, fibrates

(Kutner JS, et al. JAMA Intern Med. 2015)

Anticoagulation

- No one right answer.
- Requires individualized decision-making of risks/benefits
- Review burdens/risks of stopping
- Don't forget that thrombotic events are not often fatal, but may add to symptom burden and poorer QOL

Decision Making Aids

<https://www.healthwise.net/ohridecisionaid/Content/StdDocument.aspx?DOCHWID=tx2209>

<https://www.england.nhs.uk/wp-content/uploads/2022/07/Making-a-decision-about-further-treatment-for-atrial-fibrillation.pdf>

Atrial Fibrillation: Should I Take an Anticoagulant to Prevent Stroke?

1 Get the Facts 2 Compare Options **3 Your Feelings** 4 Your Decision 5 Quiz Yourself 6 Your Summary

What matters most to you?

Your personal feelings are just as important as the medical facts. Think about what matters most to you in this decision, and show how you feel about the following statements.

| Reasons to take an anticoagulant | Reasons not to take an anticoagulant |
|---|--|
| <p>I worry about my risk of stroke.</p> <p>More important Equally important More important</p> | <p>I don't worry much about my risk of stroke.</p> <p>More important Equally important More important</p> |
| <p>I'm confident that I can take an anticoagulant as directed.</p> <p>More important Equally important More important</p> | <p>I'm worried that I can't take an anticoagulant as directed.</p> <p>More important Equally important More important</p> |
| <p>Lowering my risk of stroke is more important to me than the risk of a bleeding problem.</p> <p>More important Equally important More important</p> | <p>I'm more worried about my risk of a bleeding problem than my risk of stroke.</p> <p>More important Equally important More important</p> |
| <p>My other important reasons:</p> <p>More important Equally important More important</p> | <p>My other important reasons:</p> <p>More important Equally important More important</p> |

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Current as of: June 25, 2023
Author: Healthwise Staff

Diabetic medications

- Do not aim for tight glucose control
- Risks of hypoglycemia significant and worse than a higher A1C

Cardiac medications: Deprescribing trials

RCTs of Deprescribing-Related Interventions Focused on Cardiovascular Medication Classes

| First Author (Ref. #) | Deprescribing Process | Primary Outcome | Secondary Outcomes | Conclusions |
|-----------------------|--|--|---|---|
| Kutner et al. (33) | Not provided | Proportion of deaths at 60 days | Number of non-statin medications, death, cardiovascular events, performance status, QOL, symptoms, and cost savings | Statin discontinuation was safe and did not increase mortality. Several secondary benefits: improvements in QOL, less non-statin medication use, decrease in medication costs |
| Moonen et al. (34) | Deprescribing algorithm | Change in the overall cognition compound score | Changes in scores on cognitive domains, Geriatric Depression Scale-15, Apathy Scale, Groningen Activity Restriction Scale (functional status), and Cantril Ladder (QOL). | Deprescribing anti-HTN medications Did not improve cognitive, psychological, or general daily functioning, and did not increase the risk for adverse events |
| Luymes et al. (35) | Nurse prompting of physician to discuss prescribing with patients, followed by use of a guideline if deprescribing attempted | Difference in the increase in predicted (10-yr) CVD risk between control and per-protocol population | Systolic and diastolic blood pressures, cholesterol | The predicted CVD risk increased by 2.0% in the per protocol group compared with 1.9% in the usual care group, and this was within the noninferiority margin |
| Gulla et al. (36) | Systematic medication review whereby physician received support from peers (collegial mentoring) | Number of anti-HTN drugs | Systolic blood pressure, pulse | Decreased number of anti-HTN medications. No sustained difference in pulse or systolic pressure |
| Halliday et al. (37) | Random treatment assignment; supervised, step-wise reduction in medications over 16 weeks | Relapse of DCM within 6 months | Composite safety outcomes (cardiovascular mortality, major adverse cardiovascular events, and unplanned cardiovascular hospital admission) and the occurrence of sustained atrial or ventricular arrhythmias; other individual outcomes | Approximately 40% of patients deemed recovered from DCM will relapse following treatment withdrawal. Current recommendation is to continue treatment indefinitely |
| Ongoing study | | | | |



| | Recommendation | When to reduce dose or withdraw |
|---|--|---|
| Diuretics | Keep unless clear reason to stop | Hypovolemia, hyponatremia, dehydration, hypotonia |
| Beta-blockers | Consider gradual dose reduction, risk of reflex tachyarrhythmias | Fatigue, hypotension, bradycardia |
| ACE inhibitor, ARB, Sacubitril/valsartan, MRA | Keep, consider dose reduction | Hypotension, renal failure, hyperkalemia |
| SGLT2 inhibitors | Keep | Renal failure |
| Ivabradine | Keep | Bradycardia |
| Inotropics | Keep if symptomatic benefit and if facilitates dying at home. | Withdraw in the last hours and in those without symptomatic benefit |

Front. Cardiovasc. Med., 23 May 2022
Sec. Heart Failure and Transplantation
Volume 9 - 2022
| <https://doi.org/10.3389/fcvm.2022.883669>

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| Drug Withdrawn | Adverse Drug Withdrawal Event |
|---|-------------------------------|
| Alpha 1-blocker | Increase in blood pressure |
| Angiotensin-converting enzyme inhibitor | Increase in blood pressure |
| Antianginal | Chest pain |
| Beta-blockers | Chest pain, tachycardia |
| Digoxin | Tachycardia |
| Diuretic agents | Increased vascular congestion |

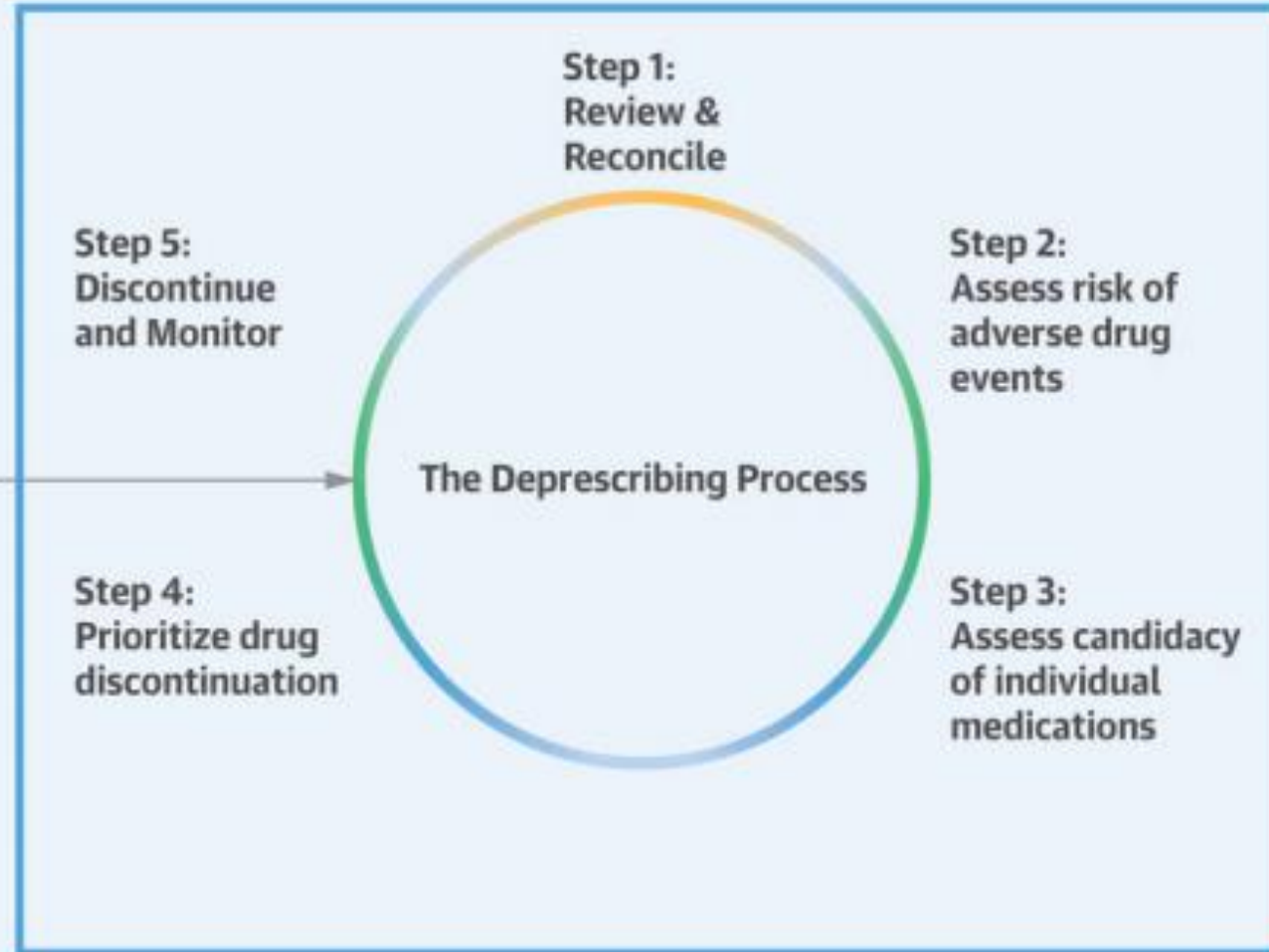
From Bain et al. (47).

Overview of Deprescribing by the Cardiovascular Clinical Team

Triggers to Deprescribe

1. Adverse drug reactions
2. Polypharmacy
3. Prescribing cascades
4. At end-of-life and as part of palliative care

*Framework and Process to Deprescribe



Communication strategies

It is a conversation

- Introduce the conversations: “we should make sure you are on the right medications...”
- Ask first: do they know why they are on the medication?
- Explain what the purpose is and the side effects or reasons to think about stopping
- Give time for questions and emotions!
- Explore what matters to them
- Make a recommendation based on what matters and whether medication helps meet their goal

What have you found?

Case-Based Discussion

Case: Mrs. W: 89 year old woman

Lives at home with her family (son is primary caregiver)

Over past month, getting weaker

Dizziness when she does get up

Unsteadier on her feet

BP: 85/55 HR: 76

Oxygen sat: 95% on room air

Case: Mrs. W: 89 year old woman

HFrEF: LV = 30%

NYHA III

Glaucoma

Diabetes

HTN

CKD (Creatinine 300s)

OA

Gout

Her medications

- Hydralazine 75 mg TID
- ISDN 20 mg TID
- ASA 81 mg
- Bisoprolol 5 mg
- Rosuvastatin 5 mg
- Linagliptin 5 mg
- Amlodipine 5 mg BID
- Allopurinol 100 mg
- Lasix 80mg PO BID
- Amitriptyline 30mg QHS
- Spironolactone 25 mg qam

Issues

- Becoming weaker; in bed most of the day
- Dizzy when she sits up
- Not eating much

BP: 84/50

HR: 70

No congestion symptoms

Thinking about deprescribing!

CASE

- Where do you start?
- What are the challenges you currently face?
- What can we strive to do differently?

Q & A

Wrap Up

- Please fill out the feedback survey following the session! A link has been added into the chat.
- A recording of this session will be e-mailed to registrants within the next week.
- Thank you for your participation in this second series!

Thank You



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