

# Heart Disease Community of Practice Series 2

Update to medical management of HF decompensations in the community, including Cardiorenal dysfunction: how to manage with a palliative approach to care.



**Host and Moderator:** Diana Vincze, Pallium Canada

**Presenter:** Morgan Krauter, NP

**Date:** November 16, 2022

# 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

## Host and Moderator

**Diana Vincze**, Palliative Care ECHO Project  
Manager, Pallium Canada

## Presenter

**Morgan Krauter, NP, CCN(C)**  
Nurse Practitioner, Heart Function

## Panelists

**Dr. Leah Steinberg, MD, CFPC, FCFP, MA**  
Palliative Care Clinician, Sinai Health  
System  
Assistant Professor, Division of Palliative  
Care, University of Toronto

**Dr. Caroline McGuinty, MD FRCPC**  
Cardiologist, Advanced Heart Failure and  
Transplantation, Cardiac Palliative Care  
University of Ottawa Heart Institute  
Assistant Professor, University of Ottawa

# Introductions

## Panelists (continued)

### **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

### **Shannon Poyntz, RN-PHC, MN**

Nurse Practitioner, Supportive Care  
North York General Hospital

### **Drew Stumborg, RN**

Saskatchewan Health Authority

# Disclosure

Relationship with Financial Sponsors:

## **Pallium Canada**

- Not-for-profit
- Funded by Health Canada

# Disclosure

## **This program has received financial support from:**

- Health Canada in the form of a contribution program
- Generates funds to support operations and R&D from Pallium Pocketbook sales and course registration fees

## **Host/ Presenter/Panelists:**

- Diana Vincze: Palliative Care ECHO Project Manager, Pallium Canada
- 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)
- Dr. Michael Slawnych: Novartis
- Drew Stumborg: None to disclose.
- Morgan Krauter: Servier, BI, Novartis (speaker fees)
- Shannon Poyntz: 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

# 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:**

- Learn some tips in the use of quadruple therapy in patients with advanced heart failure
- Learn how to integrate a palliative care approach to cardio-renal dysfunction

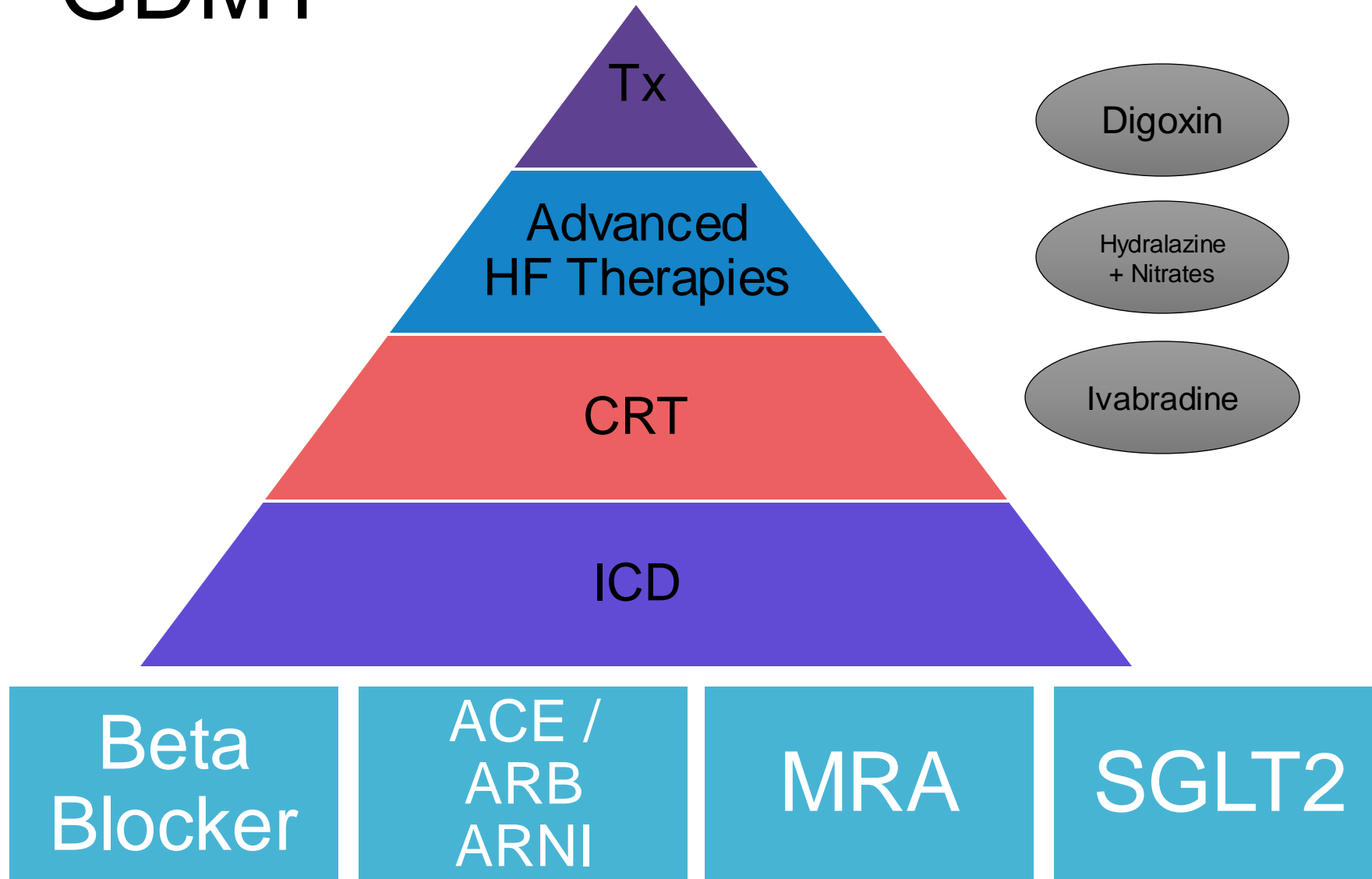
# Guideline Directed Medical Care (GDMT) for Heart Failure



# Good Palliative Care is Good Heart Failure Care

- Guideline-directed medical therapies (GDMT) for heart failure have known benefits for reducing morbidity and mortality, preventing hospitalization, and improving functional status and symptom management.
- Familiarity with GDMT is important to derive symptom control benefit in parallel to optimizing heart function for as long as possible.
- Underpinning of most GDMT medications (ARNI, MRA, SGLT2) include a diuretic effect which can mitigate need for loop diuretics and need for aggressive diuretic regimens.

# HFrEF GDMT

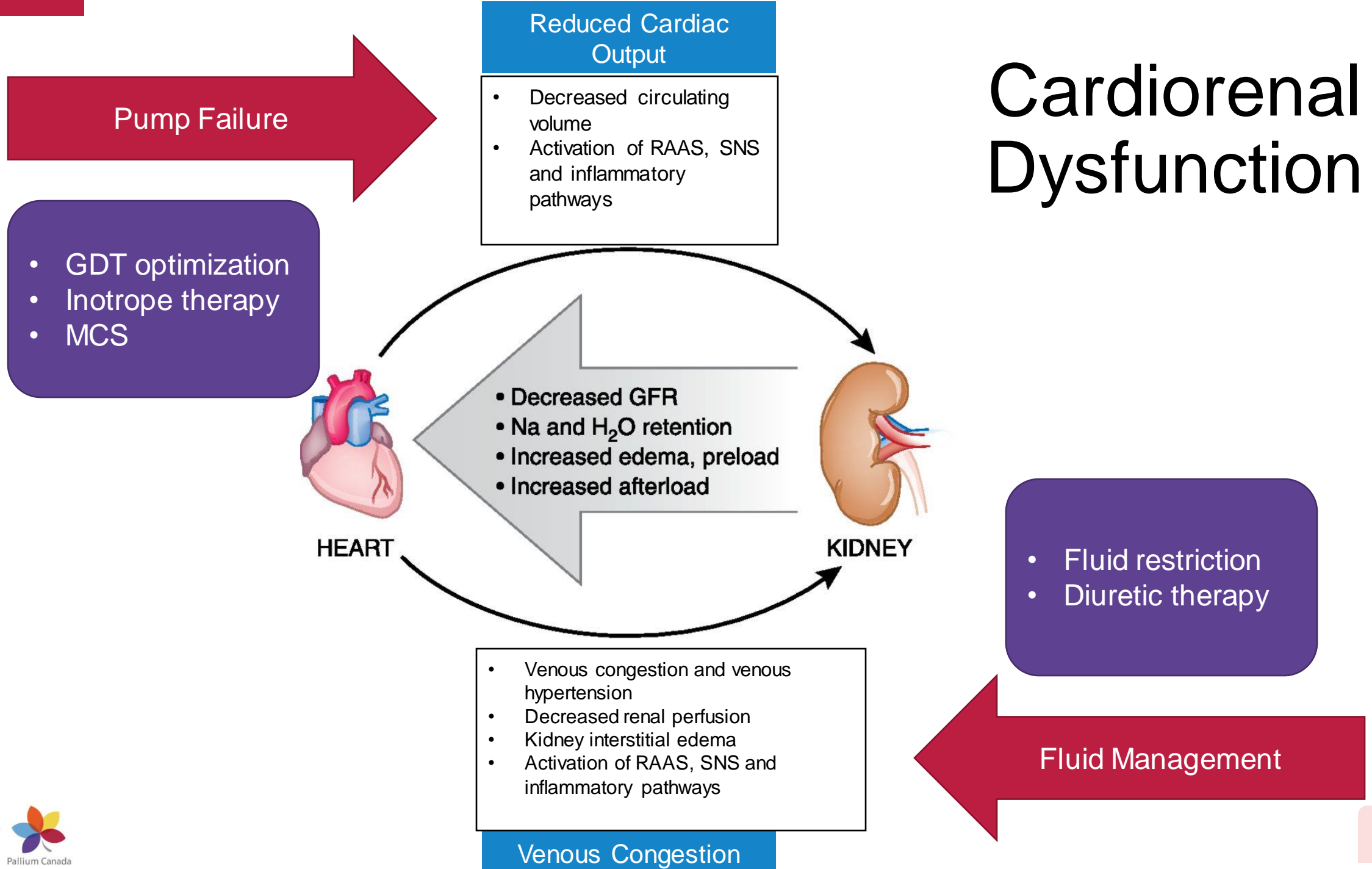


Drug	Initial Dose	Target Dose	Dosage Forms (mg)
<b>Angiotensin Converting Enzyme Inhibitor (ACEI)</b>			
Goal: Target or maximally tolerated dose			
Captopril	12.5mg TID	50mg TID	12.5, 25, 50, 100
Enalapril	2.5mg BID	10mg BID	2.5, 5, 10, 20
Lisinopril	2.5mg daily	30-40mg daily	5, 10, 20, 40
Perindopril	2mg daily	4-8mg daily	2, 4, 8
Ramipril	1.25-2.5mg BID	5mg BID	1.25, 2.5, 5, 10, 15
Trandolapril	0.5-1mg daily	4mg daily	0.5, 1, 2, 4
<b>Angiotensin receptor blocker (ARB)</b>			
Goal: Target or maximally tolerated dose			
Candesartan	4mg daily	32mg daily	4, 8, 16, 32
Valsartan	40mg BID	160mg BID	40, 80, 160, 320
<b>Beta-Blockers</b>			
Goal: Target or maximally tolerated dose			
Bisoprolol	1.25mg daily	10mg daily	5, 10
Carvedilol	3.125mg BID	25mg BID (>85kg 50mg BID)	3.125, 6.25, 12.5, 25
Metoprolol Tartrate	6.25-12.5mg BID	100mg BID	25, 50, 100 SR: 100, 200
<b>Mineralocorticoid Receptor Antagonists (MRA)</b>			
Goal: Target or maximally tolerated dose			
Spirololactone	12.5-25mg daily	50mg daily	25, 50, 100
Eplerenone (Inspra®)	12.5-25mg daily	50mg daily	25, 50
<b>Angiotensin receptor-neprilysin inhibitor (ARNI)</b>			
Goal: Target or maximally tolerated dose			
Sacubitril/Valsartan (Entresto®)	50-100mg BID	200mg BID	Sacubitril/Valsartan 24.3/25.7 (50); 48.6/51.4 (100); 97.2/102.8 (200)
			Note: 103mg Entresto® valsartan = 160mg Diovan® valsartan





# Cardiorenal Dysfunction



# Strategies to Optimize

- Efficient decongestion with combination diuretic therapy: dose, route, type
- Modified volume assessments through palliative care lens
  - Patient-specific congestive symptoms
  - Daily weights, if possible
  - Physical exam findings of congestion: abdominal bloating, peripheral edema, respiratory
  - Laboratory investigations when goal concordant
- Optimization of GDMT, including ACE/ARB/ARNI and MRA if possible
- Consideration of ultrafiltration or peritoneal dialysis for volume control in refractory HF
- Collaborative nephrology care

# Case-Based Discussion



# Mr. Jack Black

- JB is a 78 year old man with a history of ischemic cardiomyopathy, HFrEF and cardiorenal dysfunction secondary to longstanding diabetes mellitus and hypertension.
- He is referred to the Heart Function Clinic by his community cardiologist for assistance with diuresis and palliative care measures.
- 6-months ago, he was swimming regularly with his wife, used a walker to ambulate, and pleased with his quality of life. He was admitted 2-months ago for CHF exacerbation and since then has reported NYHA III-IV symptoms. He is mainly housebound.
- He presents to your office with evidence of volume overload and 25lbs weight gain from baseline.

# Mr. Jack Black

- Current cardiac medications: Bisoprolol 2.5mg daily, Furosemide 80mg IV daily, Metolazone 5mg PO q-2 days, Hydralazine 50mg PO QID, Isosorbide dinitrate 20mg QID, Potassium chloride 40mmol TID, Rivaroxaban 15mg daily, Rosuvastatin 5mg daily
- Labs: Na 136 mmol/L, K 4.3 mmol/L, Cr 187 umol/L, Hgb 101 g/L
- Treatment preferences: good insight into disease trajectory; active medical management to optimize functional status, including invasive tests and procedures; would like to be able to get back in the pool

# Discussion questions

- What are 3 opportunities for heart failure optimization in JB?
- What strategies can you use to counter cardiorenal dysfunction in this patient?
- How do you navigate implementation and titration of home intravenous furosemide in your patient population?

# Wrap Up

- Please fill out the feedback survey following the session! Link has been added into the chat
- A recording of this session will be e-mailed to registrants within the next week
- Please join us for the next session in this series:
  - **Demystifying ICDs – do you always need to deactivate?**
  - **January 18, 2023 from 12-1pm ET**
- If you would like to present a case at one of our upcoming sessions, contact [echo@pallium.ca](mailto:echo@pallium.ca)

# Thank You



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