Disclosures

<u>Consulting/Advisory Board:</u> Abbott, Akcea, Astra Zeneca, Amgen, Alnylam, Boehringer Ingelheim, Cardiol Therapeutics, Merck, Novartis, Pfizer, Servier

<u>Speaker:</u> Astra Zeneca, Boehringer Ingelheim, Eli-Lilly, Novartis, Servier

<u>Clinical Trials:</u> Amgen, Astra Zeneca, Bayer, Boehringer Ingelheim, Merck, Novartis

<u>Research Grants:</u> Novartis

Educational Grants: Servier





CCS CHFS Clinical Practice Update HF Phenotype Pathway Preview

Shelley Zieroth, MD

President, Canadian Heart Failure Society

CPU Writing Group

- Dr. Lisa Mielniczuk (Theme Lead)
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- Dr. Liz Swiggum
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- Dr. Eileen O'Meara
- Derek Leong RPh
- Dr. Kim Anderson



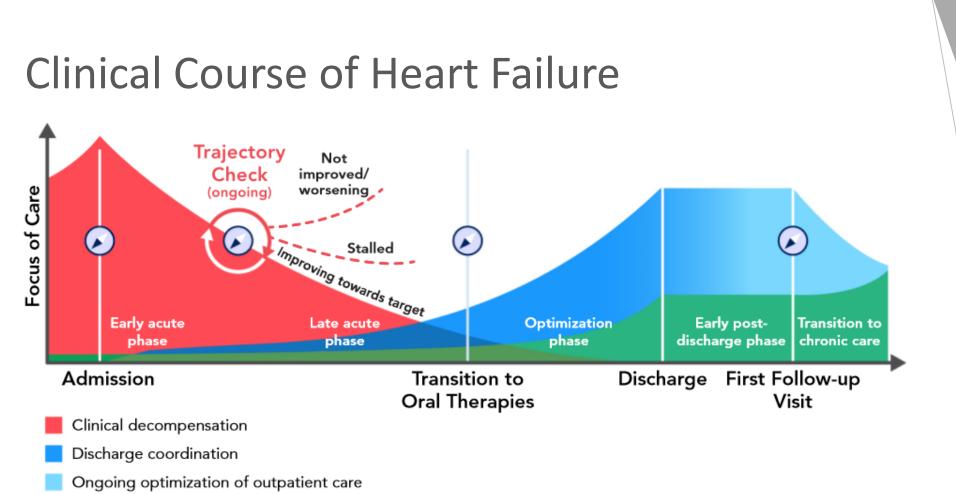
Objectives

- Preview/crowdsource the CHFS phenotype pathway/algorithm for the practical application of HF therapies
- Reveal the CHFS inpatient HF order set, discharge tool and patient diary

NOTE:

Final CCS CHFS CPU HF Phenotype Pathway will be e-published in the Canadian Journal of Cardiology simultaneous with the CHFS Spotlight podium presentation at the Canadian Cardiovascular Congress, October 22-25, 2020





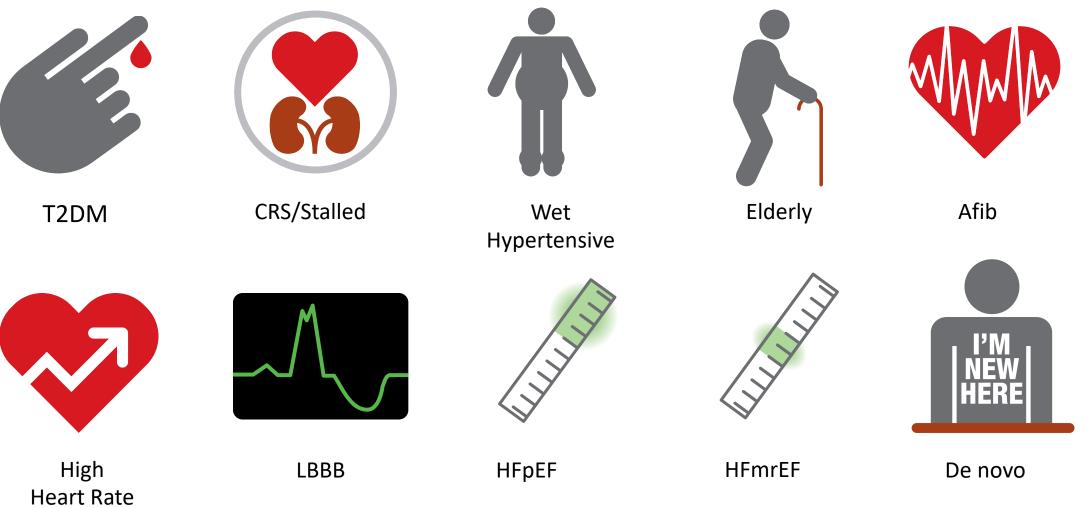
- Guideline-directed medical therapy
- S Evaluation for long-term trajectory

2019 ACC Expert Consensus Decision Pathway on Risk Assessment, Management, and Clinical Trajectory of Patients Hospitalized With Heart Failure Steven M. Hollenberg, Lynne Warner Stevenson, Tariq Ahmad, Vaibhav J. Amin, Biykem Bozkurt, Javed Butler, Leslie L. Davis, Mark H. Drazner, James N. Kirkpatrick, Pamela N. Peterson, Brent N. Reed, Christopher L. Roy, Alan B. Storrow, J Am Coll Cardiol. 2019 Oct, 74 (15) 1966-2011

CHFS/SCIC

CHFS/SCIC

Phenotypes





Type 2 Diabetes



In a patient with Type 2 DM and LVEF 35% and NYHA 2-3 symptoms how would you prioritize their GDMT (assuming Health Canada/ regulatory approval)

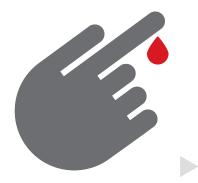
A) RASi BB MRA SGLT2iB) RASi SGLT2i BB MRAC) SGLT2i RASi BB MRA

RASi = (Ace or ARB or ARNi)

BB = (B Blocker)

MRA = (Mineralocorticoid receptor antagonist)

SGLT2i = (Sodium glucose co-transporter 2 inhibitors)



Type 2 Diabetes



In a patient with Type 2 DM and LVEF 35% and NYHA 2-3 symptoms how would you prioritize their GDMT (assuming Health Canada/ regulatory approval)

What did the majority around the CPU table say?

A)	RASi	BB	MRA	SGLT2i

B) RASi SGLT2i BB MRA

C) SGLT2i RASi BB MRA



How About Without Type 2 Diabetes ?



- In a patient with LVEF 35% and NYHA 2-3 symptoms how would you prioritize their GDMT (assuming Health Canada/ regulatory approval)
- A) RASi BB MRA SGLT2iB) RASi SGLT2i BB MRAC) SGLT2i RASi BB MRA

RASi = (Ace or ARB or ARNi)

BB = (B Blocker)

- MRA = (Mineralocorticoid receptor antagonist)
- SGLT2i = (Sodium glucose co-transporter 2 inhibitors)



How About Without Type 2 Diabetes ?



- In a patient with LVEF 35% and NYHA 2-3 symptoms how would you prioritize their GDMT (assuming Health Canada/ regulatory approval)
- What did the majority around the CPU table say?
- A) RASi BB MRA SGLT2i
 B) RASi SGLT2i BB MRA
 C) SGLT2i RASi BB MRA



How About Without Type 2 Diabetes ?



- In a patient with LVEF 35% and NYHA 2-3 symptoms how would you prioritize their GDMT (assuming Health Canada/ regulatory approval)
- In the last case which 2 drugs would you start simultaneously?
- BB MRA A) RASi SGLT2i B) RASi SGLT2i BB **MRA** C) SGLT2i BB **MRA** RASi SGLT2i RASi BB **MRA**



High Heart Rate



In a euvolemic patient with a BP of 90/60 on metoprolol 100 mg po BID and a Heart Rate of 98 bpm (sinus) LVEF 35% and NYHA 2-3 symptoms how would you address the residual risk of elevated heart rate?

- A) Uptitrate Bblocker
- B) Add ivabradine



High Heart Rate



In a euvolemic patient with a BP of 90/60 on metoprolol 100 mg po BID and a Heart Rate of 98 bpm (sinus) LVEF 35% and NYHA 2-3 symptoms how would you address the residual risk of elevated heart rate?

What did the majority around the CPU table say?

A) Uptitrate Bblocker

B) Add ivabradine



De novo HFrEF



In a patient admitted with newly diagnosed ADHF with LVEF 35% how would you prioritize their in hospital GDMT (assuming <u>NO</u> regulatory restriction) ?

- A) ACEi BB MRA then switch to ARNI as outpatient
- B) ACEi BB MRA no switch to ARNI as outpatient until reassess LVEF
- C) ARNI BB MRA

ACEi = Ace Inhibitor BB = Beta blocker MRA = Mineralcorticoid receptor antagonis ARNI = Angiotensin receptor neprilysin inhibitor



De novo HFrEF



In a patient admitted with newly diagnosed ADHF with LVEF 35% how would you prioritize their in hospital GDMT (assuming <u>NO</u> regulatory restriction) ?

What did the majority around the CPU table say?

- A) ACEi BB MRA then switch to ARNI as outpatient
- B) ACEi BB MRA no switch to ARNI as outpatient until reassess LVEF
- C) ARNI BB MRA





Shelley Zieroth @ShelleyZie... · 1d 🗸 Polltime pre HFUpdate.ca next wknd: Did #covid19 🚹 your use of ARNI first line over Acei to reduce hosp+ HCU in HFrEF pts? @IAmDrIbrahim @JJheart_doc @GiuseppeGalati_ @ValleAlfonso @hvanspall @gcfmd @BiykemB @AndrewJSauer @DrRajivsankar @mmamas1973 @DrMarthaGulati

YES Chronic HFrEF only 5% 19% YES Chronic+Denovo pts 26% NO ARNI 1st always NO I'm Acei 1st always **49**%



50% already use ARNI 1st line





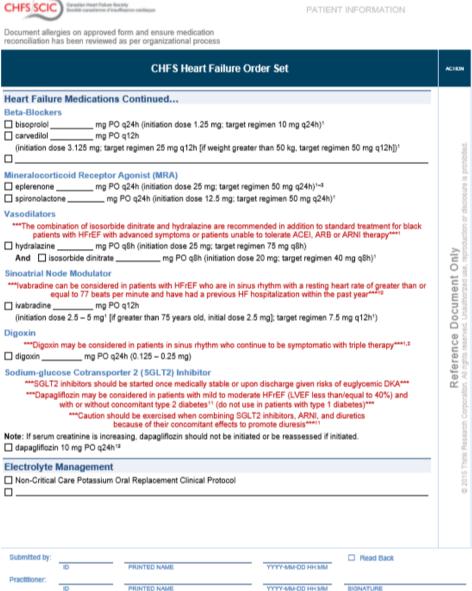


Canadian Heart Failure Society Société canadienne d'insuffisance cardiaque



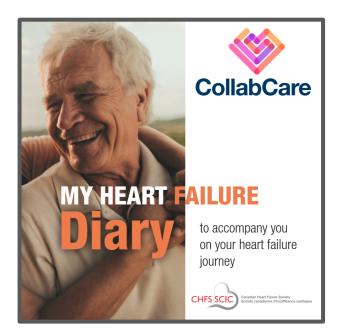
Document allergies on approved form and ensure medication reconciliation has been reviewed as per organizational process

CHFS Heart Failure Order Set	ACTION
Diagnostics Investigations on Admission (if not already done in ED) 12-Lead ECG ^{1,3} CXR PA + Lateral ^{1,3} reference clinical status change warrants investigation*** 2D Echocardiogram ¹⁻³ Reason: Reason:	tre is prohibilied.
IV Therapy Saline lock; flush as per policy/procedureatmL/h	or disclosure is
Heart Failure Medications Diuretics ***!V diuretics are recommended as first-line therapy for patients with pulmonary or peripheral congestion***1 ***!V diuretics are recommended as first-line therapy for patients with pulmonary or peripheral congestion***1 ***!V diuretics are recommended as first-line therapy for patients with pulmonary or peripheral congestion***1 ***!If symptomatic hypotension arises, consider holding diuretics and reassessing for volume overload*** furosemidem gl V for 1 dose STAT (max 200 mg/dose) furosemidem gl V qh furosemidem grV qh mg PO qh bumetanidem gr PO qh metolazonem gr PO q24h, administer 30 minutes prior to loop diuretic (2.5 mg; max 20 mg in 24 hours) ²	nce Document Only reserved. Unauthorized use, reproduction or
Angiotensin-Converting Enzyme-Inhibitors (ACEI) perindopril mg PO q24h (initiation dose 2 – 4 mg; target regimen 4 – 8 mg q24h) ¹ ramipril mg PO q12h (initiation dose 1.25 – 2.5 mg; target regimen 5 mg q12h) ¹	Reference
Angiotensin Receptor Blockers (ARB) For Patient Intolerant to ACEI candesartan mg PO q24h (initiation dose 4 – 8 mg; target regimen 32 mg q24h) ¹⁻³ valsartan mg PO q12h (initiation dose 40 mg; target regimen 160 mg q12h) ¹⁻³	2015 Think Research Con
Angiotensin Receptor Neprilysin Inhibitors (ARNI) ***Patients who remain symptomatic despite triple therapy, consider change ACEI/ARB to an ARNI***1,9 ***Concomitant use with an ACEI or ARB is contraindicated; if an ACEI was administered, wait 36 hours before administering ARNI***1,9 sacubitril 24 mg/valsartan 26 mg, 1 tab PO q12h (target regimen sacubitril 97 mg/valsartan 103 mg, 1 tab PO q12h) sacubitril 49 mg/valsartan 51 mg, 1 tab PO q12h sacubitril 97 mg/valsartan 103 mg, 1 tab PO q12h sacubitril 97 mg/valsartan 103 mg, 1 tab PO q12h	@ 2015 Thin
Submitted by: ID PRINTED NAME YYYY-MM-DD HH:MM Practitioner: ID PRINTED NAME YYYY-MM-DD HH:MM ID PRINTED NAME YYYY-MM-DD HH:MM signature 04-20 V1 Page Page	e 3 of 13



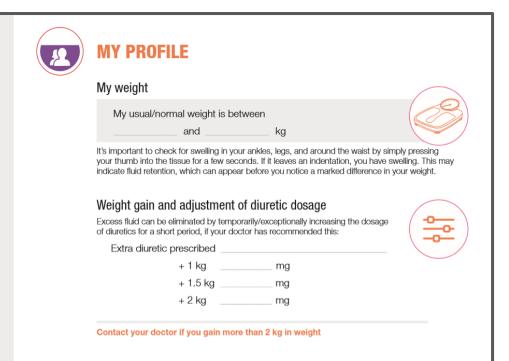
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04-20 V1



	Weight (kg)	Blood pressure (mm Hg)		Heart	During the day have you experienced		How much has your heart failure affected you during the da For each topic below, place a cross on the symbol that most close represents how you felt			
Date		systolic	diastolic	rate (bpm)	Tiredness (YES or NO)	Breathlessness (YES or NO)	hobbies & recreational activities	your efficacy at work	doing household chores	visiti family or frien
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							00	☺ 😄 😕	0008	00
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0	Name and dosage of medicines (mg)	~¥~	*	2	Comments
My heart failure treatments					
	Name and dosage of medicines (mg)	-¥-	*)	Comments
My other treatments					
	🛶 Morning 🌟 Noon 🌙 Evening				









HEART FAILURE AWARENESS WEEK MAY 4-10, 2020

in partnership with



Canadian Cardiovascular Society



Canadian Council of Cardiovascular Nurses



Heart&Stroke Cœur+AVC www



Heartfailure.ca Insuffisancecardiaque.ca