

PRACTICAL APPROACHES TO SELF-CARE MANAGEMENT

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"Before we begin, full disclosure - I am man's best friend."

There are no conflicts of interest to report



Objectives

In this *interactive* workshop you will:

- Learn about the factors that impact heart failure patients' engagement in self-care;
- Review practical approaches that integrate the role of family caregivers in patient self-care;
- Learn important tips for supporting patient education and self-care engagement in challenging situations.

Self-care- Definition

"Self-care is defined as a naturalistic decision-making process addressing both the prevention and management of chronic illness, with the core elements of self-care maintenance, self-care monitoring and self-care management"

> Riegel et al., Self-Care for the Prevention and Management of Cardiovascular Disease and Stroke. A Scientific Statement for Healthcare Professionals From the American Heart Association. J Am Heart Assoc. 2017, Aug 31, 6(9)

Why is self-care important?

1. People may spend only 2% of their time with health care providers in a year

98% of time is spent without a health care provider Example: Time spent with HCP in a year (124 hours) Time awake / year (16 hours X 365= 5840 hours) Total time with health care provider/ YR: 2%

Assumptions in example: Clinic appointment: 1/month X12 months (12 hours) Hospital: 7 day LOS (112 hours awake)

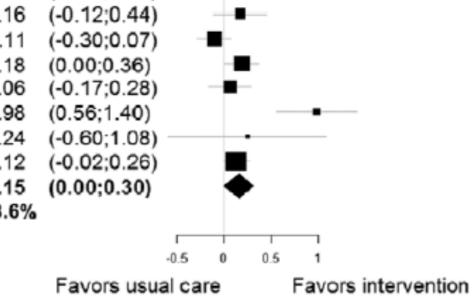
2. Engagement in self-care in people with heart failure helps decrease hospitalizations for heart failure and can improve quality of life and decrease mortality

Self-care interventions and HF-related Quality of Life

HF-related QoL 12 months

	Year	Sample size	SMD	95% CI	
Blue	2001	165	0.21	(-0.25;0.68)	
Stromberg	2003	106	-0.07	(-0.43;0.28)	
Martensson	2005	153	-0.03	(-0.28;0.21)	
Sisk	2006	406	0.17	(-0.04;0.37)	
Bruggink-Andre de la Porte	2007	240	0.16	(-0.12;0.44)	
Jaarsma	2008	1023	-0.11	(-0.30;0.07)	
Smeulders	2009	317	0.18	(0.00;0.36)	
Peters-Klimm	2010	197	0.06	(-0.17;0.28)	
Otsu	2011	102	0.98	(0.56;1.40)	
Leventhal	2011	42	0.24	(-0.60;1.08)	
DeWalt	2012	605	0.12	(-0.02;0.26)	
Overall		3356	0.15	(0.00;0.30)	•
l squared			43.6%		

SMD- Standardized Mean Difference; CI- Confidence Interval; HR- Hazard Ratio QOL- Quality of Life



Jonkman et al., Circulation 2016 133(12); 1189-1198

Self-care interventions and HF related hospitalizationstime to event

HF-related hospitalization time-to-event

-	Year	Sample size	HR	95% CI	
Blue	2001	165	0.38	(0.19;0.76)	-
Riegel	2002	358	0.60	(0.38;0.96)	
Atienza	2004	338	0.44	(0.30;0.65)	
Tsuyuki	2004	276	0.86	(0.54;1.36)	-
Riegel	2006	135	0.97	(0.54; 1.73)	-
Aldamiz	2007	279	0.97	(0.61;1.53)	-
Bruggink-Andre de la Porte	2007	240	0.67	(0.29;1.54)	•
Jaarsma	2008	1023	1.03	(0.79:1.34)	-
Leventhal	2011	42	0.47	(0.04;5.16)	· ·
DeWalt	2012	605	1.13	(0.76;1.70)	-
Overall		3461	0.80	(0.69; 0.92)	•
l squared			60.8%		

SMD- Standardized Mean Difference; CI- Confidence Interval; HR- Hazard Ratio QOL- Quality of Life

Jonkman et al., Circulation 2016 133(12); 1189-1198

Favors intervention

2 25

Favors usual care

Self-care interventions and time to mortality

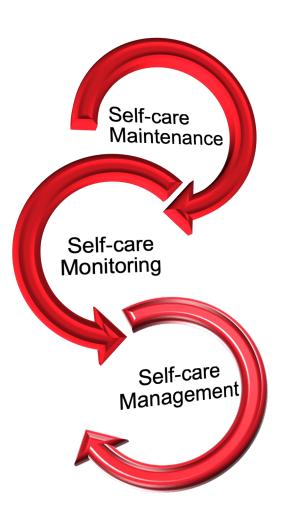
Mortality time-to-event

	Year	Sample size	HR	95% CI	
Rich	1995	282	0.95	(0.60;1.50)	
Blue	2001	165	0.93	(0.54;1.63)	
Riegel	2002	358	0.87	(0.48;1.59)	•
Stromberg	2003	106	0.31	(0.13;0.73)	-
Atienza	2004	338	0.56	(0.35;0.89)	
Tsuyuki	2004	276	1.24	(0.66; 2.32)	
Riegel	2006	135	0.82	(0.30;2.26)	-
Aldamiz	2007	279	1.05	(0.58; 1.91)	
Bruggink-Andre de la Porte	2007	240	0.52	(0.26;1.05)	
Jaarsma	2008	1023	0.98	(0.80;1.21)	- -
Peters-Klimm	2010	197	1.05	(0.30;3.62)	
Leventhal	2011	42	0.48	(0.09;2.64)	
DeWalt	2012	605	0.69	(0.32;1.48)	•
Heisler	2013	266	2.01	(1.15;3.53)	
Overall		4312	0.91	(0.79; 1.04)	•
l squared			43.8%		-

SMD- Standardized Mean Difference; CI- Confidence Interval; HR- Hazard Ratio QOL- Quality of Life 6.5 1 1.5 2 2.5 3 Favors intervention Favors usual care

Jonkman et al., Circulation 2016 133(12); 1189-1198

Self-care: 3 Core Elements



What do I do to help feel well and help prevent my heart failure from getting worse?

What are my symptoms of heart failure and are they different from my usual pattern?

What do I need to do about my symptoms when they are changing?

Riegel B et al., The Situation-Specific Theory of Heart Failure Self-care. Revised and Updated. Cardiovasc Nurs. 2016 May-Jun;31(3):226-35





Exercise and physical activity



National Guidelines (2017)

We recommend regular exercise to improve exercise capacity, symptoms, and quality of life (Strong Recommendation; Moderate-Quality Evidence)

We recommend regular exercise in HF patient with reduced EF to decrease hospital admissions.

(Strong Recommendation; Moderate-Quality Evidence)



2017 Comprehensive Update of the Canadian Cardiovascular Society Guidelines for the Management of Heart Failure



Sodium and Fluid Restriction National Guidelines



Sodium Restriction

We suggest that patients with heart failure should restrict their dietary salt intake to between 2g/d and 3g/d.

(Weak Recommendation; Low-Quality Evidence)

Practical tip: The optimal quantity of salt in the diet is still a subject of debate. The amount of salt should be adapted to the clinical situation, the severity of symptoms, and baseline consumption without interfering with other nutritional content.

Fluid Restriction

We suggest that restriction of daily fluid intake to approximately 2 L/d should be considered for patients with fluid retention or congestion that is not easily controlled with diuretics. (Weak Recommendation; Low-Quality Evidence)

Practical tips:

- The appropriate quantity of fluid intake is a subject of debate. Strick limits should be imposed where there is clear fluid overload or demonstrated sensitivity to fluid intake.
- Severely limiting daily fluid intake to <1.5 L might have adverse consequences on nutrition, renal function, and quality of life without known additional benefit and should be applied selectively
- Special considerations for patients with hyponatremia should be applied.



2017 Comprehensive Update of the Canadian Cardiovascular Society Guidelines for the Management of Heart Failure

Medication tips



Organizing medications- "some people find it difficult to remember to take all of their medications. I am wondering how you managedo you organize and remember to take your pills?" Do you find it difficult at times?

Medication tips



Side effects when titrating and optimizing medications with 'low blood pressure' – dealing with fatigue, avoiding symptomatic hypotension

Asymptomatic low blood pressure

- Stagger dose of ACE inhibitor/ARB and Beta Blocker (at least 2 hours between medications)
- Consider splitting daily dose to BID
- Use Bisoprolol rather than Carvedilol (more Beta 1 selective)
- Take beta blocker with meals (slows absorption)
- Consider decreasing diuretic
- Consider volume depletion, or other meds (cardiovascular or other) that can contribute to hypotension or orthostatic hypotension (e.g. alpha-blocker)



Daily weight

Daily weights

We suggest daily morning weight should be monitored in patients with heart failure with fluid retention or congestion that is not easily controlled with diuretics or in patients with significant renal dysfunction. (Weak Recommendation; Low-Quality Evidence)

Practical tip: Weight should be closely monitored for unstable or frail patients. Any rapid weigh gain (i.e.,>1.5 or 2 Kg) should prompt a rapid medical visit. Weight loss should also be addressed medically.



2017 Comprehensive Update of the Canadian Cardiovascular Society Guidelines for the Management of Heart Failure

Symptom Monitoring, Perception and Interpretation

Personalize Signs and Symptoms- How do <u>you</u> know if <u>you</u> are starting to retain fluid?



- Expect a large variety of vague descriptions from patients/family caregivers.
- Help clarify signs and symptoms that are probably not related to heart failure
- Story telling 'tell me about...a typical day... the last week.... highlight signs or symptoms that reflect HF decompensation (e.g. what did you feel like just prior to hospitalization?)
- Repeat reinforcement is often necessary







EVERY DAY

·Weigh yourself in the morning before breakfast. Write it down. Compare your weight today to your weight vesterday. · Keep the total amount of fluids you drink to only 6 to 8 glasses each day. (6-8 glasses equals 1500-2000 mL or 48-64 oz)



· Eat foods that are low in salt or salt-free. Balance activity and rest periods.

Take your medicine exactly

 Check for swelling in your feet, ankles, legs, and stomach.

how your doctor said.

Which zone are you in today?



YELLOW AUTION ZONE

EVERY DAY

ALL CLEAR - This zone is your goal!

Your symptoms are under control. You have:



· No shortness of breath.

· No chest discomfort, pressure, or pain.

· No swelling or increase in swelling of your feet, ankles, legs, or stomach.

• No weight gain of more than 4 lbs (2 kg) over 2 days in a row or 5 lbs (2.5 kg) in 1 week.

CAUTION - This zone is a warning

Call your Health Care provider (eg. Doctor, nurse) if you have any of the following: You gain more than 4 lbs (2 kg) over 2 days in a row or 5 lbs (2.5 kg) in 1 week. You have vomiting and/or diarrhea that lasts more than 2 days. You feel more short of breath than usual.

· You have increased swelling in your feet, ankles, legs, or stomach.

Healthcare Provider:



· You have a dry hacking cough.

· You feel more tired and don't have the energy to do daily activities.

RED ER ZONE œ 5

DAN

EMERGENCY – This zone means act fast! Go to emergency room or call 9-1-1 if you have any of the following: You are struggling to breathe. · Your shortness of breath does not go away while sitting still. You have a fast heartbeat that does not slow down when you rest. You have chest pain that does not go away with rest or with medicine. You are having trouble thinking clearly or are feeling confused. You have fainted.

> The Heart and Stroke Foundation gratefully acknowledges Cardiac Services BC and the experts at British Columbia's Heart Failure Network as the original creators of this resource. "The heart and / icon and the Heart&Stroke word mark are trademarks of the Heart and Stroke Foundation of Canada.



Personalize

What are your *early* symptoms?

Action Plan

What should you do if you notice a change?



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Self-care in heart failure is not easy

- Self-care is a skill and requires practice and learning over time
- Let patients know that others have difficulties too and encourage them to share concerns and problems
- Repeat reinforcement is often necessary
- Patients regard self-care within a process of adaptation that strives to maintain independence and quality of life

"My weight just kept going up- I knew if I gained weight I would need to go back to the hospital. So I just stopped checking my weight."

"They told me not to have any canned foods, no canned soups and no lunch meats.... I didn't have any canned foods and lunch meats. I had pizza and hot wings and Pepsi Cola".

Factors affecting self-care activities and decision-making

"It's complicated"

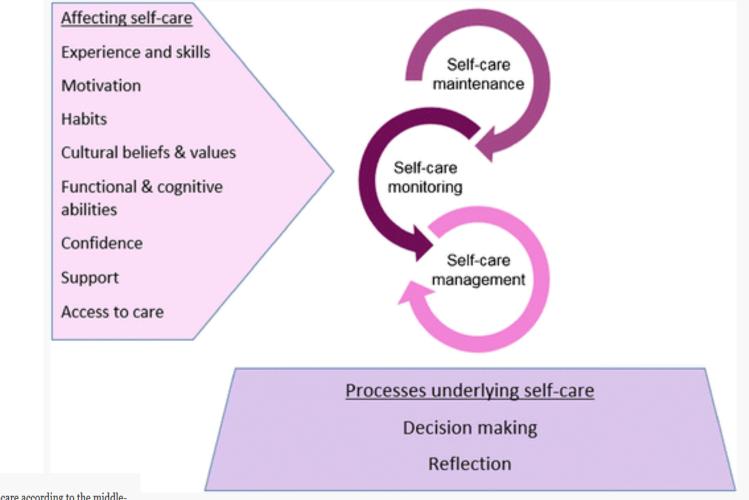


Fig. 1

Factors affecting self-care and processes underlying self-care according to the middle-

range theory of self-care of chronic illness

Patients and Caregivers handle the patient's selfcare in one of four ways –

Do you know which way your patient uses?

Patient does all self-care	Caregiver does all self-care
Patient and Caregiver collaborate on self-care	Patient and Caregiver are at cross purposes on self-care

Self care in heart failure-past experience

Do you forsee any potential problems with this arrangement?

How do you approach this situation?

"I don't take my Lasix (water pill) when I am going out somewhere, I can't always get to a bathroom quick enough. I had an accident when I was out a few months ago and I was so embarrassed I could have died."

Clark et al., Int J Nurs Studies 2012; Harkness et al., J Cardiovasc Nurs 2014

Good intentions, not so good outcomes

How do you approach situations when people had good intentions, but their actions and decisions actually made things worse?

> *"I noticed I wasn't peeing as much and my weight was going up. I started drinking iced tea to help 'flush out my kidneys and help the water pills work better".*

"They told me not to have any canned foods, no canned soups and no lunch meats.... I didn't have any canned foods and lunch meats. I had pizza and hot wings and Pepsi Cola".

Clark et al., Int J Nurs Studies 2012; Harkness et al., J Cardiovasc Nurs 2014

Factors Affecting Self-Care-Supportive learning environment

Domain	Description	Tips
Learning environment	 Patients need a safe environment (e.g. not punitive) to explore real or potential situations where self-care is difficult. Patients may experience many difficulties despite deliberate attempts to make healthy choices. 	 Creative problem-solving, cognitive behavioural strategies and mutual goal setting are necessary. Let patients know that others have difficulties and encourage them to share concerns or problems. Repeat reinforcement is often necessary.
		Howlett et al. CCS Heart Failure Companion 2016

Howlett et al., CCS Heart Failure Companion, 2016 Riegel et al., 2007 in Spaling et al. JAN, 2015

Factors Affecting Self-Care – Emotional Status

"Considering how I used to be an now...that has changed drastically.....I find it very hard sometimes to deal with it...its very emotional. This morning after I got into the office for a while I just, uh, cried a little bit, a sense of hopelessness....I'm not capable of doing the walking that I used to...I fell a sense of inadequacy...Sometimes you just get fed up and think that was a day I just had a real down spiraling. I just ate what I wanted. I put salt on everything and I didn't care"

Domain	Description	Tips
Emotional Status	Symptoms such as anxiety and depression can have a negative impact on engaging in self-care.	 Counselling to recognize benefits and overcome barriers of self-care Reinforcing positive behaviors Setting mutual and realistic goals Celebrating successes
		Harkness et al., J CV Nurs, 2016

'Motivation Mis-Match'

HCP- Intended motivation- recognize fluid accumulation early and have an action plan to manage fluid accumulation to *avoid* hospitalization

Patient- Actual motivation - identifies when you *need to go back* to the hospital

Any suggestions for supporting self-care?

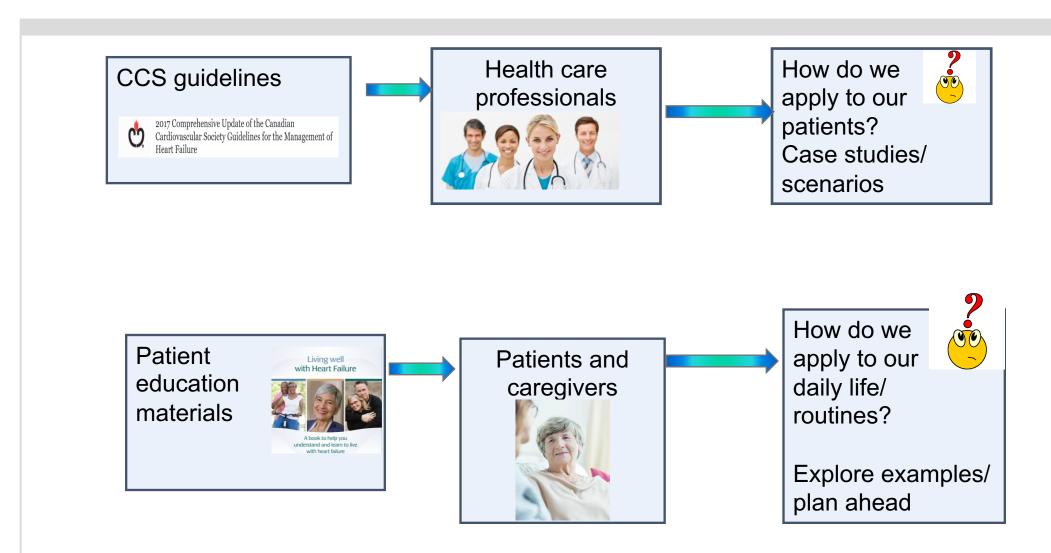
Instructions- check weight daily and if you increase by 5 pounds in a week, call the clinic.

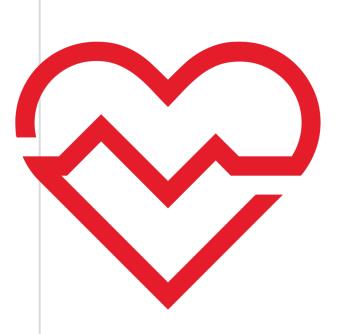
НСР

"My weight just kept going up-I knew if I gained weight I would need to go back to the hospital. So I just stopped checking my weight."

Patient

Beyond knowledge..





Summary

- Heart failure in self-care is a skill and learned over time.
- Self-care is difficult- patients and caregivers need a learning environment that is supportive rather than punitive. Let them know that others have difficulties too and encourage them to share concerns and problems.
- To integrate self-care in daily life, education should include strategies that promote self-efficacy, learning and application of the recommendation into daily life.

"The relationship"

"People don't care how much you know until they know how much you care"

Theodore Roosevelt



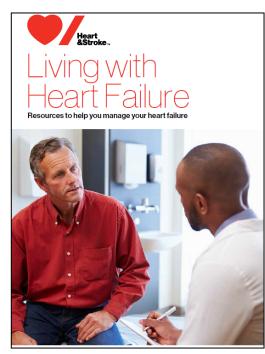
"They listen... like my input... I feel so much better. They don't argue with me... respect me as a person. That is really, really important to me... they are interested in me"

Resources

www.heartlife.ca



https://sqic.org



http://www.heartandstroke.ca/heart/ conditions/heart-failure



www.heartfailure.ca



http://www.heartfailurematters.org/en GB