

Approaches to Managing the Palliative Care Needs of Patients with Heart Failure



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Conflict of Interest Disclosures

- **Grants/research support:** None.
 - **Consulting fees:** Astra Zeneca, Pfizer, Novartis, Servier
 - **Speaker fees:** Novartis, Servier
 - **Other:** None.
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- I will discuss off-label uses for palliative care medications.

OBJECTIVES

1. Describe current state of palliative care in heart failure
2. Describe an approach to changing needs for patients with advanced heart failure
3. Understand how to access enhanced supports for patients with difficult symptom control needs at end of life.

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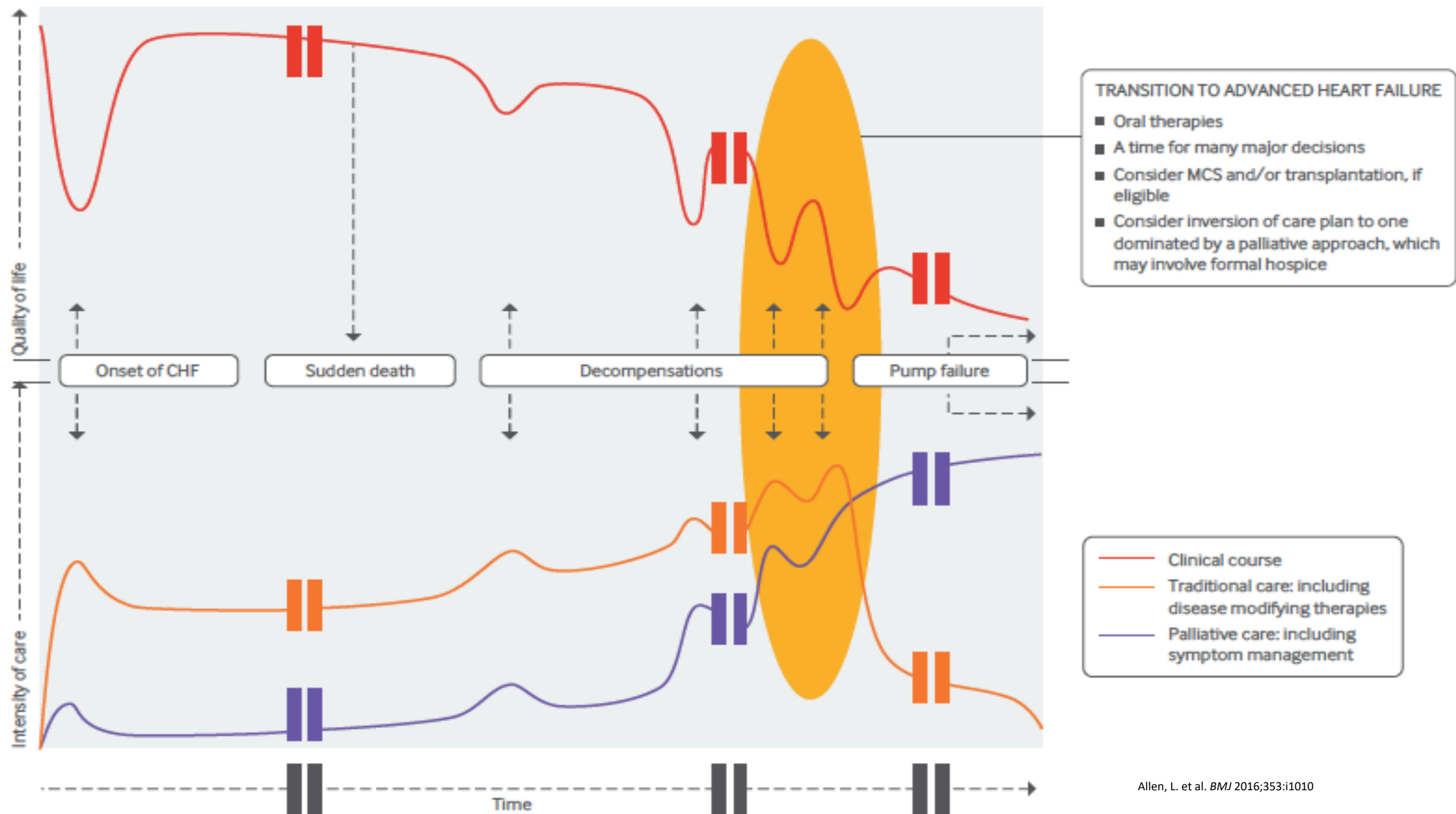


World Health
Organization

Palliative Care

The World Health Organization

“An approach that improves **quality of life** of patients and their families facing the problem associated with life-threatening illness, through the **prevention and relief of suffering** by means of early identification and impeccable assessment and treatment of pain and other problems, physical, psychological and spiritual.”



Scope of the problem

- Once heart failure becomes “advanced”, 1 year survival is 60-80%
- 1 year mortality after 1st HF admission ranges between 20-30%
- 70% will be readmitted or die in the 12 months after HF admission.
- Up to 75% of community-dwelling adults with heart failure die in hospital.

Symptom burden in Heart Failure

- Similar or worse symptom burden and quality of life than cancer.

Dyspnea

Fatigue

Depression

Anxiety

Insomnia

Decreased function

Pain

Poor cognitive function

- Increasingly complex medical decision making.

The Journal of heart and lung transplantation. 1992;11(2 Pt 1):273-9.

Lancet. 2003;362(9378):147-58.

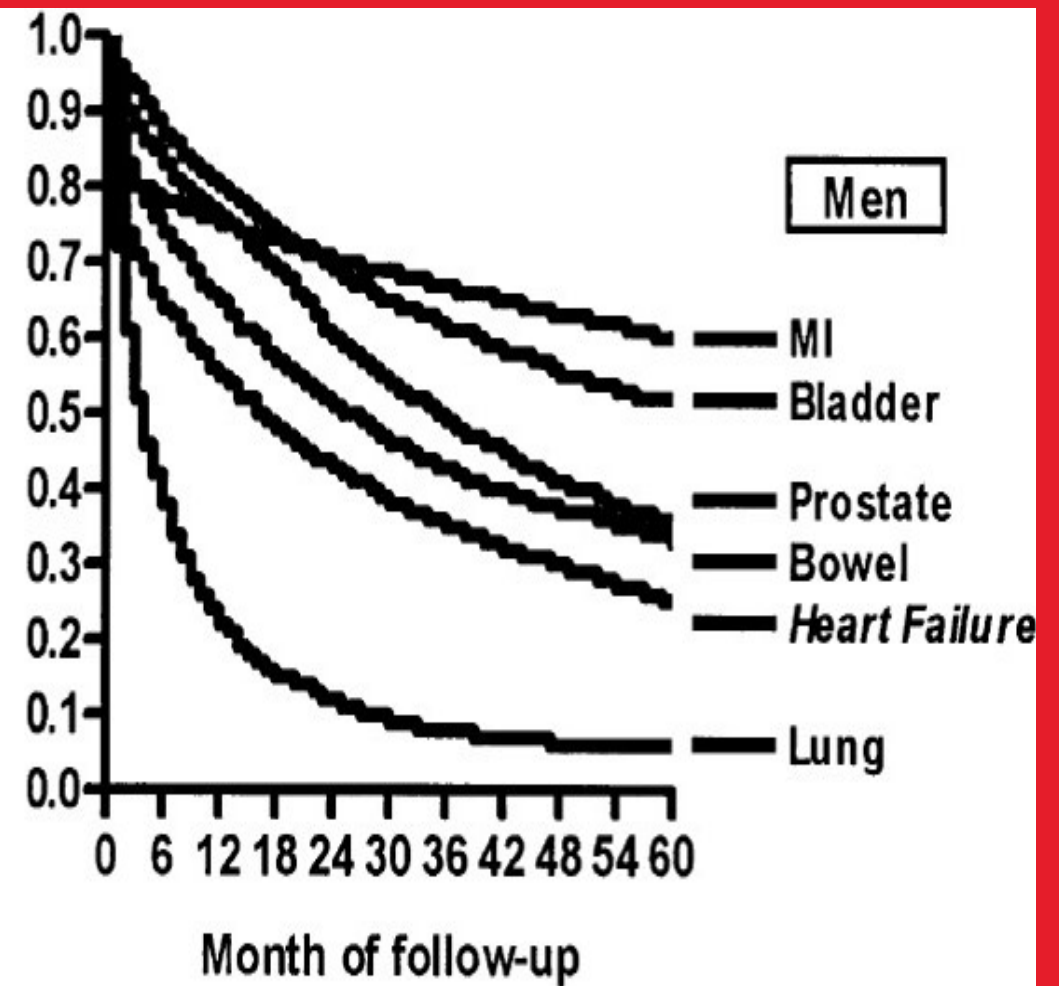
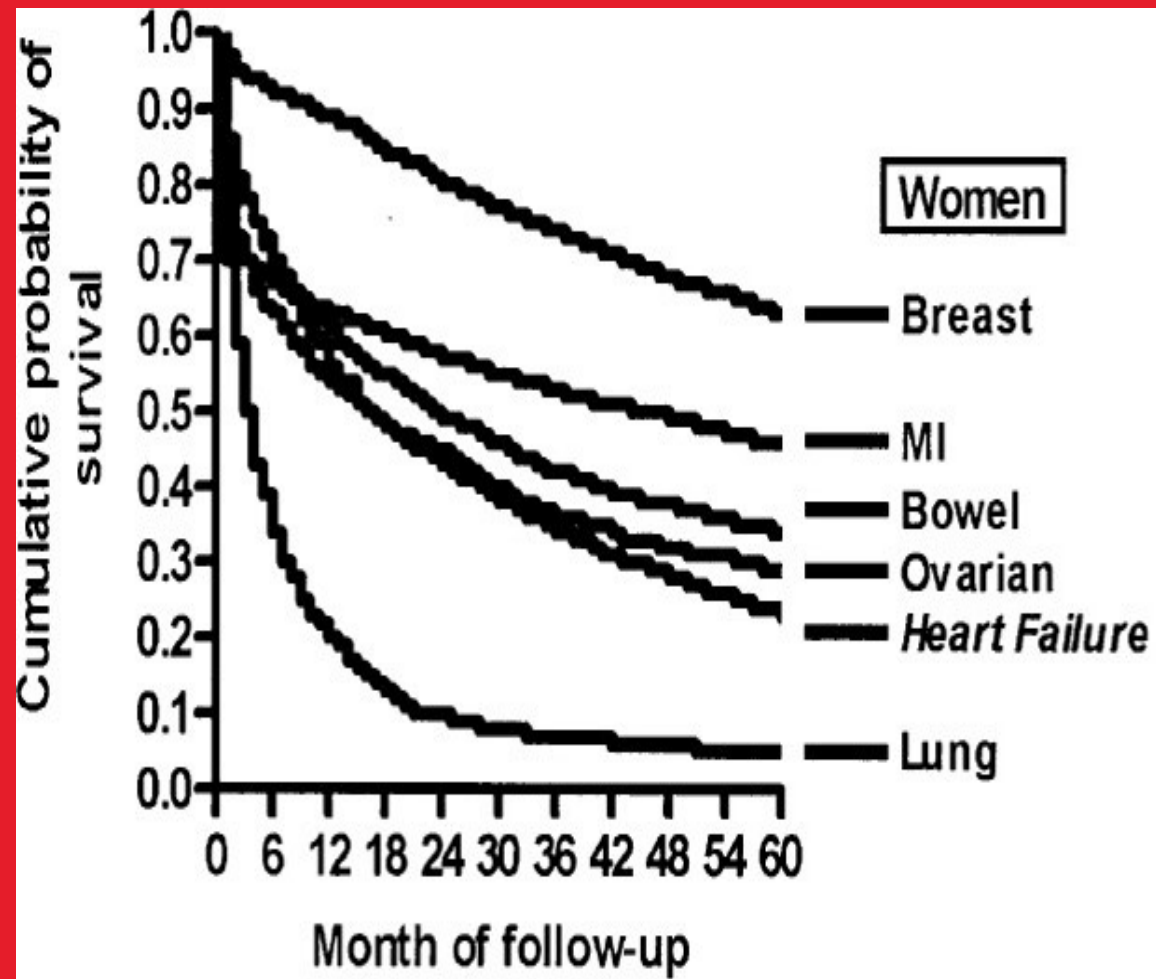
Archives of internal medicine. 2004;164(21):2321-4.

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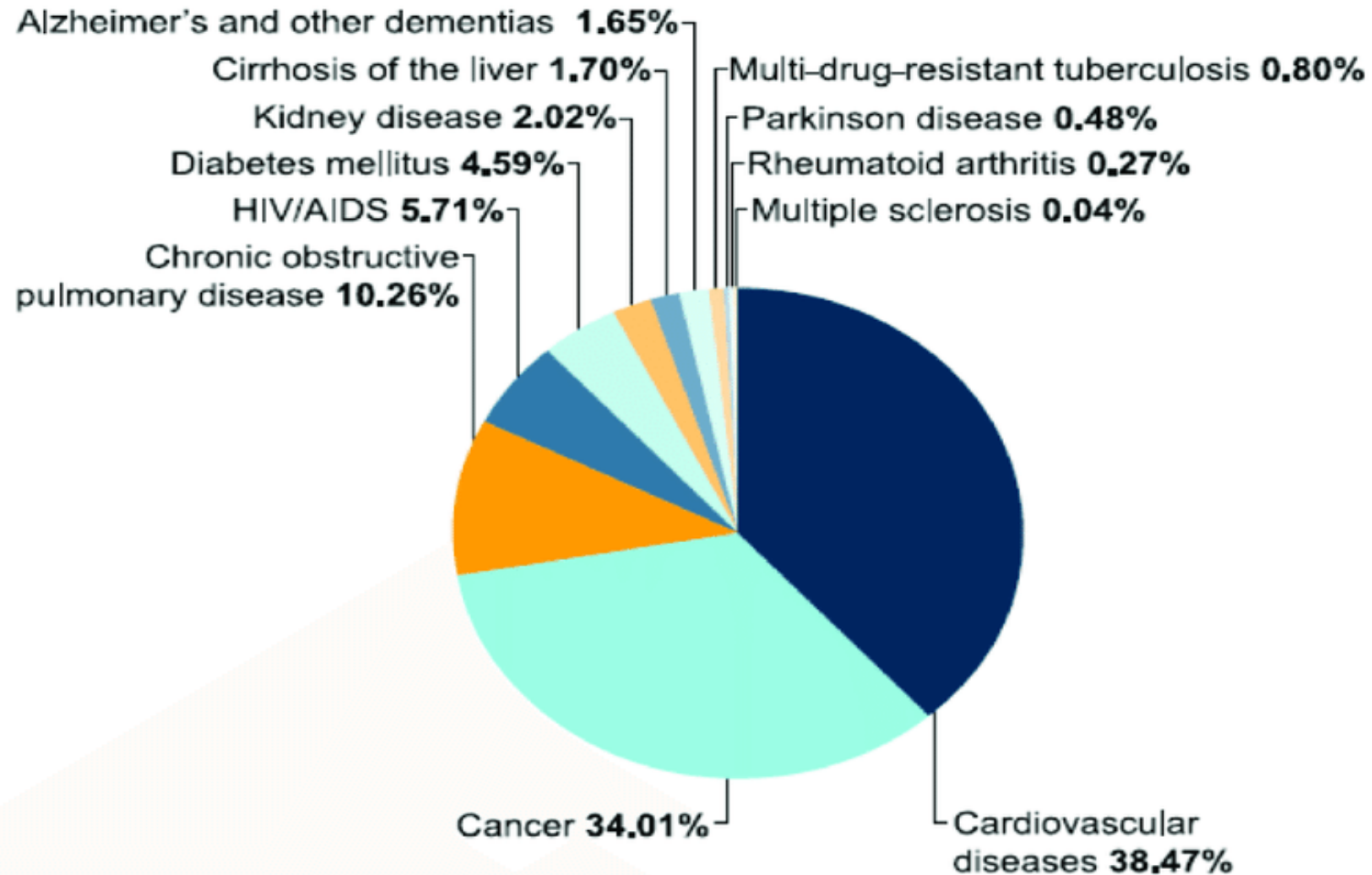
Journal of hospital medicine : an official publication of the Society of Hospital Medicine. 2012;7(7):567-72

Journal of general internal medicine. 2009;24(5):592-8.

More Malignant than Cancer.



Distribution of adults in need of palliative care at the end of life by disease groups.



N = 19,228,760

Palliative care in heart failure in Canada

Canadian studies suggest:

- Proportion of adults dying with HF who receive PC is half of that for those dying with cancer.¹
- Palliative care most commonly initiated <30 days before death².
- Median time from inpatient PC consultation to death 6 days³.
- Less than a quarter of patients access palliative care during terminal hospitalization³.
- Palliative care led by non specialist physicians².
- Less likely to be admitted to palliative care unit.

1. Seow, H. et al. BMJ Open 2018; 8:e021147
2. Quinn, K. et al. J Am Heart Assoc 2020; 9 (5)
3. Nazim, A. et al. CJC 34 (2018): 1215-1218

The Evidence for Palliative Care in HF

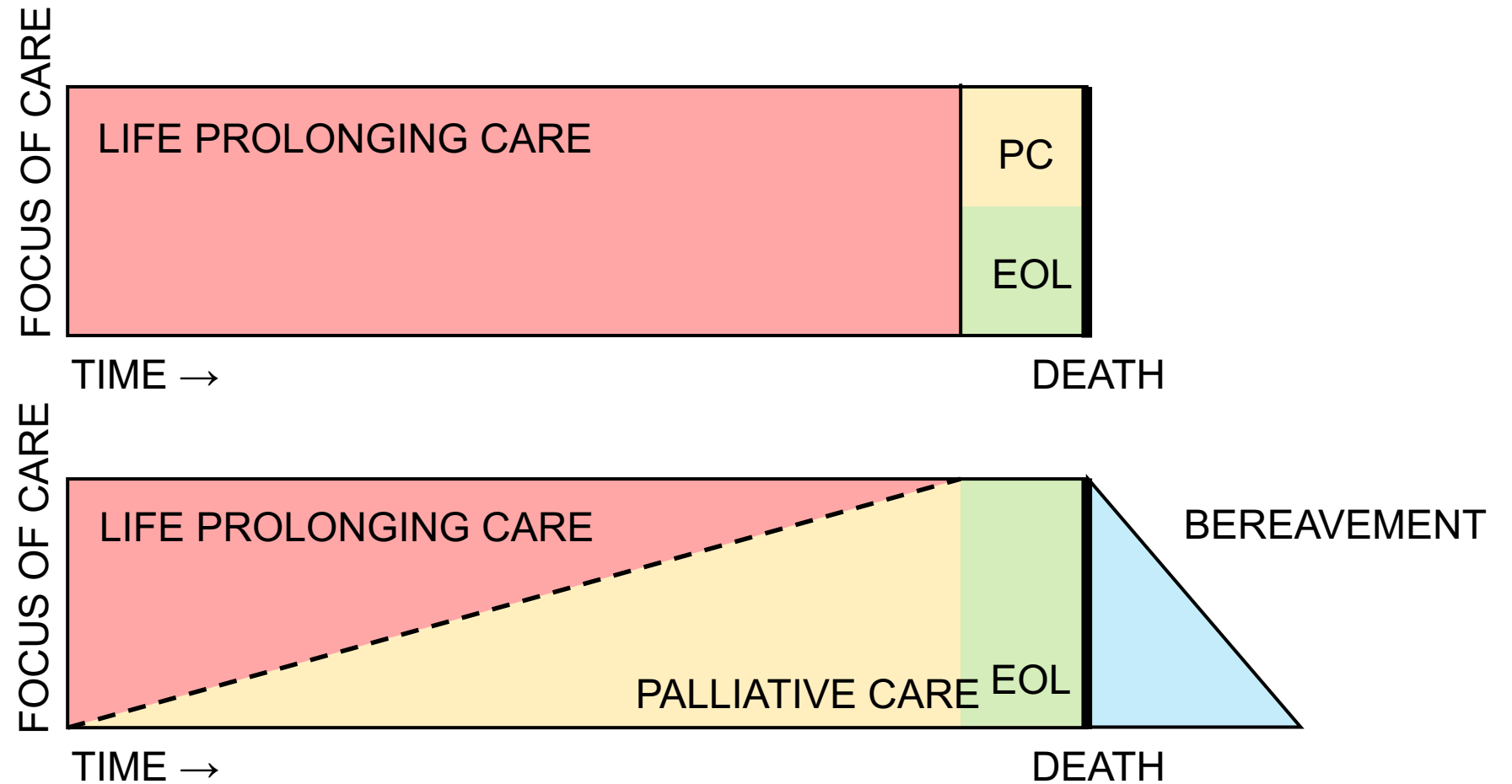
- Decreased symptom burden.
- Improved NYHA class.
- Improved quality of life.
- Decreased hospitalization rates.
- Reduced healthcare costs.
- More likely to die at home

J Card Failure. 2012 Dec; 18 (12): 894-899
European Journal of Heart Failure (2014) 16, 1142–1151
Journal of Palliative Medicine 2015. 18 (2).
Heart 2016;102:1100–1108
J Am Coll Cardiology 2017 Jul 18;70(3):331-341
Journal of Palliative Medicine 2017. 20 (1)
Connor SR, et al. J Pain Symptom Manage. 2007 Mar;33(3):238-46.
Annu Rev Public Health 2014. 35: 459-75

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Palliative Care








Palliative Care Model in HF






CENTRAL ILLUSTRATION Integrating Palliative Care Across the HF Experience

After heart failure (HF) diagnosis, initiate in tandem:


Traditional HF Management

-  Patient assessments: Medical and family histories, physical exam, diagnostic tests, patient-reported outcomes
-  Predict and communicate prognosis
-  Choose therapy
-  Manage "trigger" events
-  Monitor progress as physical function and quality of life declines

Primary Palliative Care

-  Control pain and other symptoms
-  Assist with medical decision-making and advance care planning
-  Assess and reduce emotional distress and burden to patient and family
-  Coordination of care across patient's care team
-  Promote improved quality of life for patient and caregiver

Specialist Palliative Care

-  Consider specialist involvement when problems are especially complex or severe (includes hospice care)

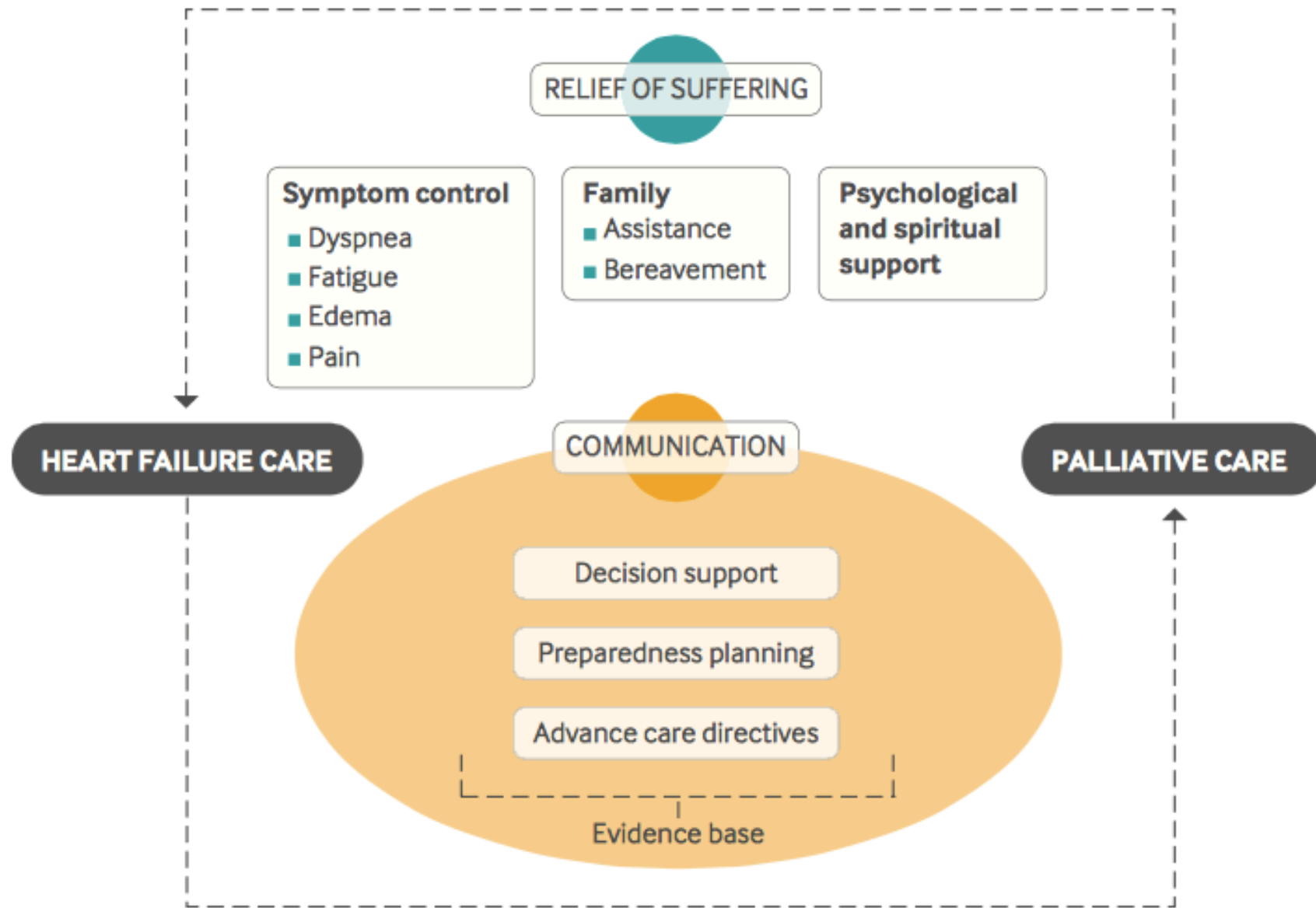
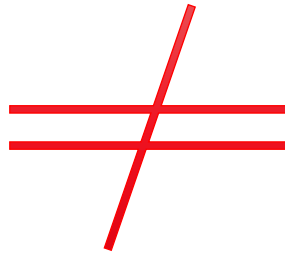


Fig 5 | Integration of palliative care and heart failure

Advance Care Planning

Goals of
Care



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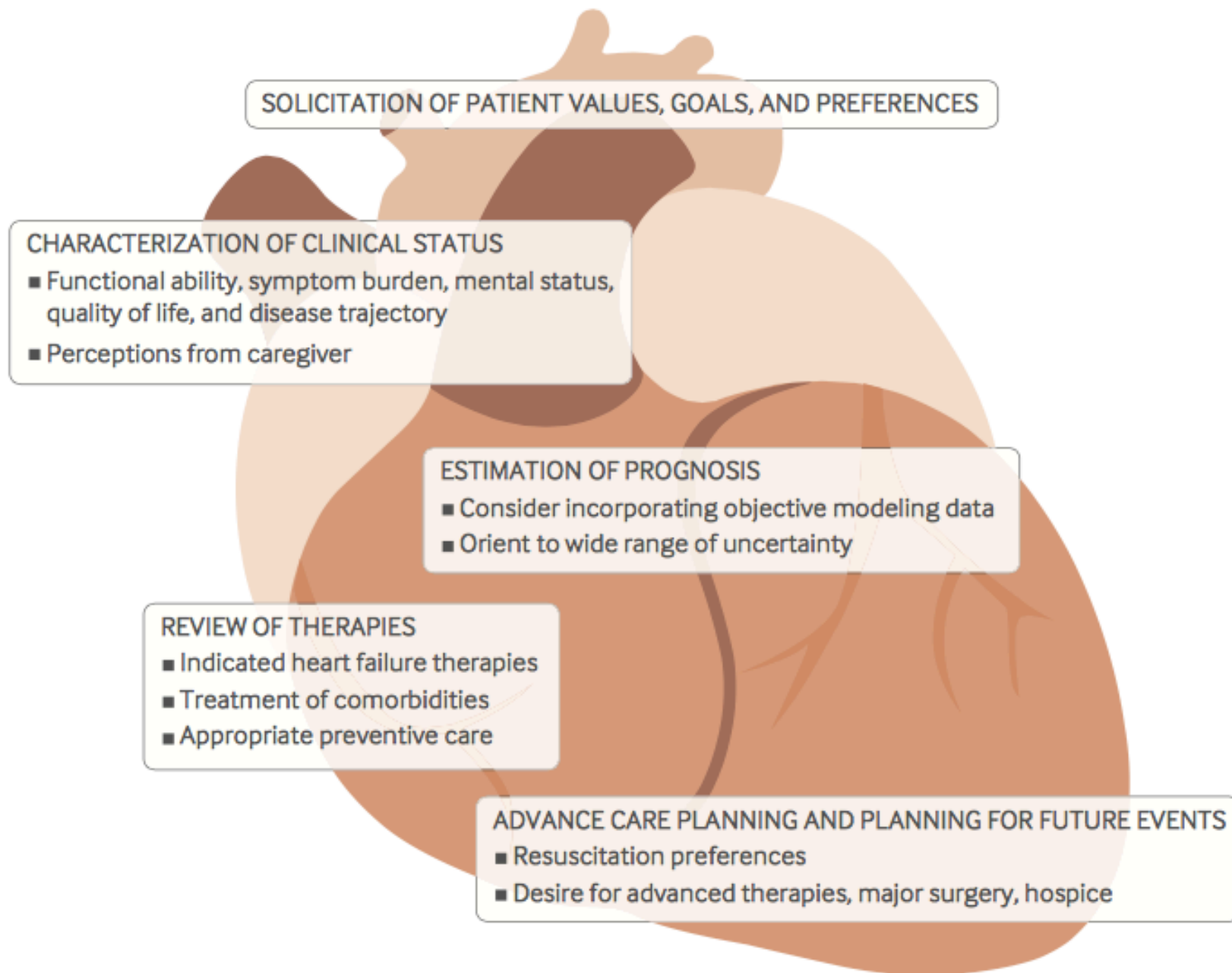
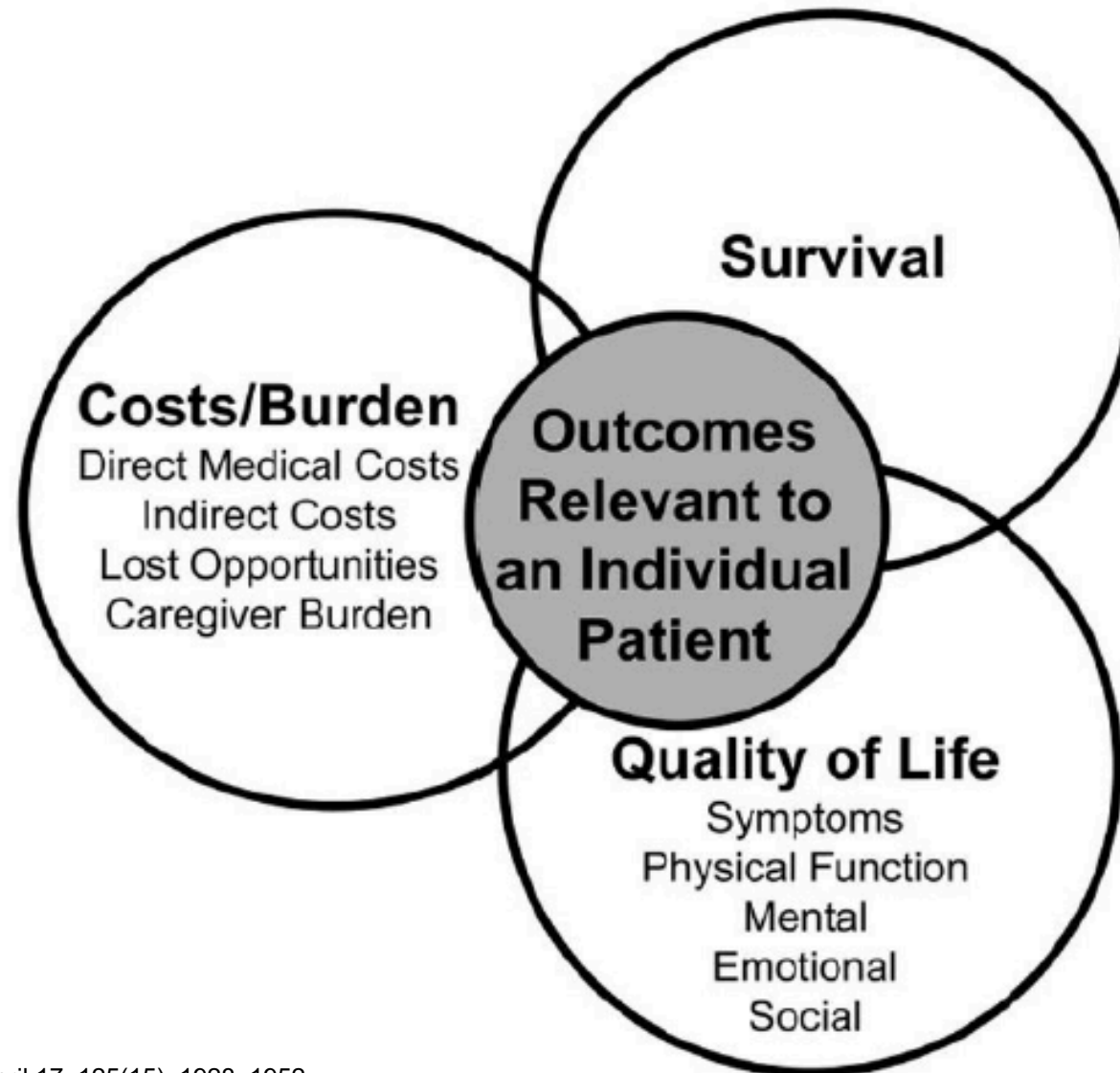
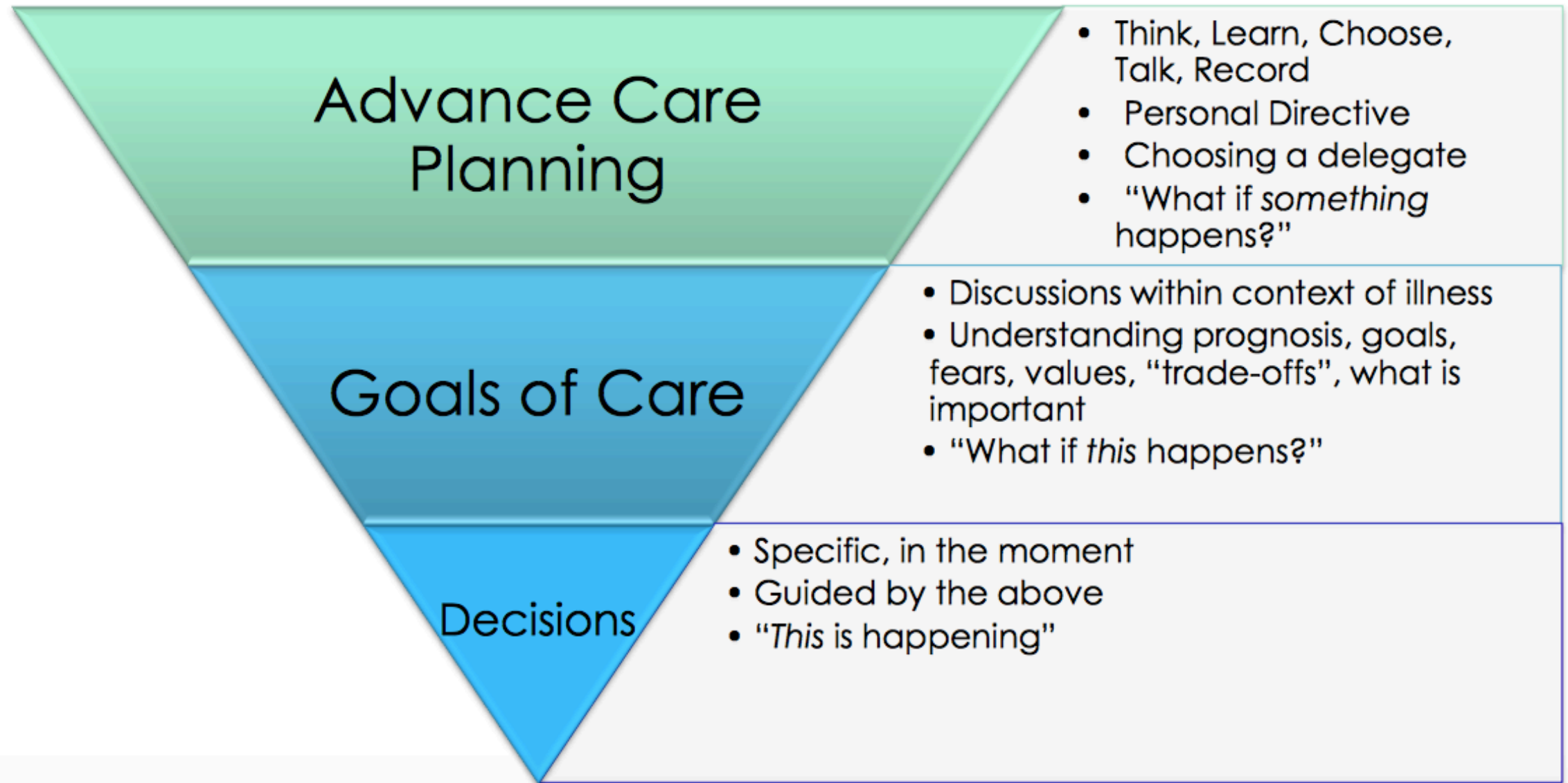


Fig 4 | Components of an annual heart failure review. Adapted, with permission, from Allen and colleagues³⁹

Establishing Goals and Values





Improving Communication

- Patient decision aid
 - Improved patient knowledge
 - Reduced decisional conflict
 - Increased patient decision making

A decision aid for
Left Ventricular Assist Device (LVAD)
A device for patients with advanced heart failure



You are being considered for an LVAD. This booklet is designed to help you understand what an LVAD is and to help you, your family, and your doctors think about what is best for you. Your values and goals are the most important factors in making a decision.

Ottawa Personal Decision Guide For People Making Health or Social Decisions



1 Clarify your decision.

What decision do you face?

What are your reasons for making this decision?

When do you need to make a choice?

How far along are you with making a choice?

☐ Not thought about it
☐ Thinking about it

☐ Close to choosing
☐ Made a choice

Advance Care Planning



ADVANCE CARE PLANNING  WORKBOOK

Learn More ▾

Make a Plan

A Palliative Approach to Care



www.myspeakupplan.ca

The Five Steps of Advance Care Planning



Make Your Plan Today

It's easy with our free online workbook.

Start Making My Plan >

(Don't worry, you can save and return at any time!)

What is Advance Care Planning ?

Advance Care Planning is a process of thinking about and sharing your wishes for future health care. It can help you tell others what

Dyspnea

- Optimize guideline-directed therapy
- Non pharmacological: handheld fan, rehab
- Diuretics
- Inotropes
- Opioids:
 - Literature suggests safe in patients with HF
 - Mixed results in patients with HF
 - Remains first line recommendation for refractory symptoms

Pain

- Common in HF but underdiagnosed.
- **Mild pain:** acetaminophen.
- **Moderate to severe pain:** Opioids as first-line therapy, oral route, regular dosing, titrate dose according to pain intensity on ESAS scale until adequate relief
- Avoid NSAIDs and Codeine.
- Consider complementary medicine options

Nausea

- Prokinetics:
 - Metoclopramide 5-20 mg po/iv/sc q6h PRN
 - Antiemetic drug of choice
- Dopamine Antagonists
 - Haldol 0.5-1 mg po/iv/sc q4h prn
 - Olanzapine 2.5-5 mg po/sc qhs +/- q4h prn
 - Methotrimeprazine (Nozinan) 2.5-5 mg po or 6.25-12.5 mg po/sc/iv q4h prn

Be aware QT
prolongation!

Depression

- Use low-dose SSRIs as first-line therapy
 - Sertraline and venlafaxine safe in HF.
 - Avoid tricyclic antidepressants.
- Cognitive-behavioural therapy, spiritual support, mindfulness-based training, and dignity therapy

Fatigue

- Optimize guideline-directed therapy
- Rehabilitation
- Rule out sleep disordered breathing, iron deficiency, depression
- Inotropic support

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Triggers for Speciality PC Referral:

- Initiation of palliative inotropes
- Preparation for procedures such as ICD, LVAD, dialysis, transplant
- Failing/unable to tolerate GDMT
- Psychosocial or Spiritual Distress
- Assessment for hospice referral
- Patient desire/request for PC
- Recurrent hospitalizations
- Excessive symptom burden
- ICD Shocks
- Comorbid diagnosis e.g. cancer



Specialty Palliative Care Clinic

One Time
Consult Only

Cardiology-Palliative Care Co-Management

Cardiology/Heart Failure Clinic

Specialist Palliative Care

- Need for shared decision-making despite prognostic uncertainty
 - Integration of palliative care into the HF team
 - Co-locate within HF clinic
 - Impact of outpatient PC programs in HF needs further study
- Specialized palliative care clinic or inpatient consult service
- Community access can be limited depending on region
 - Home inotrope program

COVID-19 Palliative Resources

COVID-19 Response – Free, Online Modules

Enhance your knowledge and skills to
practice palliative care with these free, self-directed
modules.

Pallium, in collaboration with the **Canadian Medical Association** (CMA), is providing access to essential education on palliative care for all health care professionals in response to this unprecedented COVID-19 pandemic. In these difficult times, it is more important than ever that all health care providers are equipped with the essential skills to provide compassionate, palliative care to patients in need.

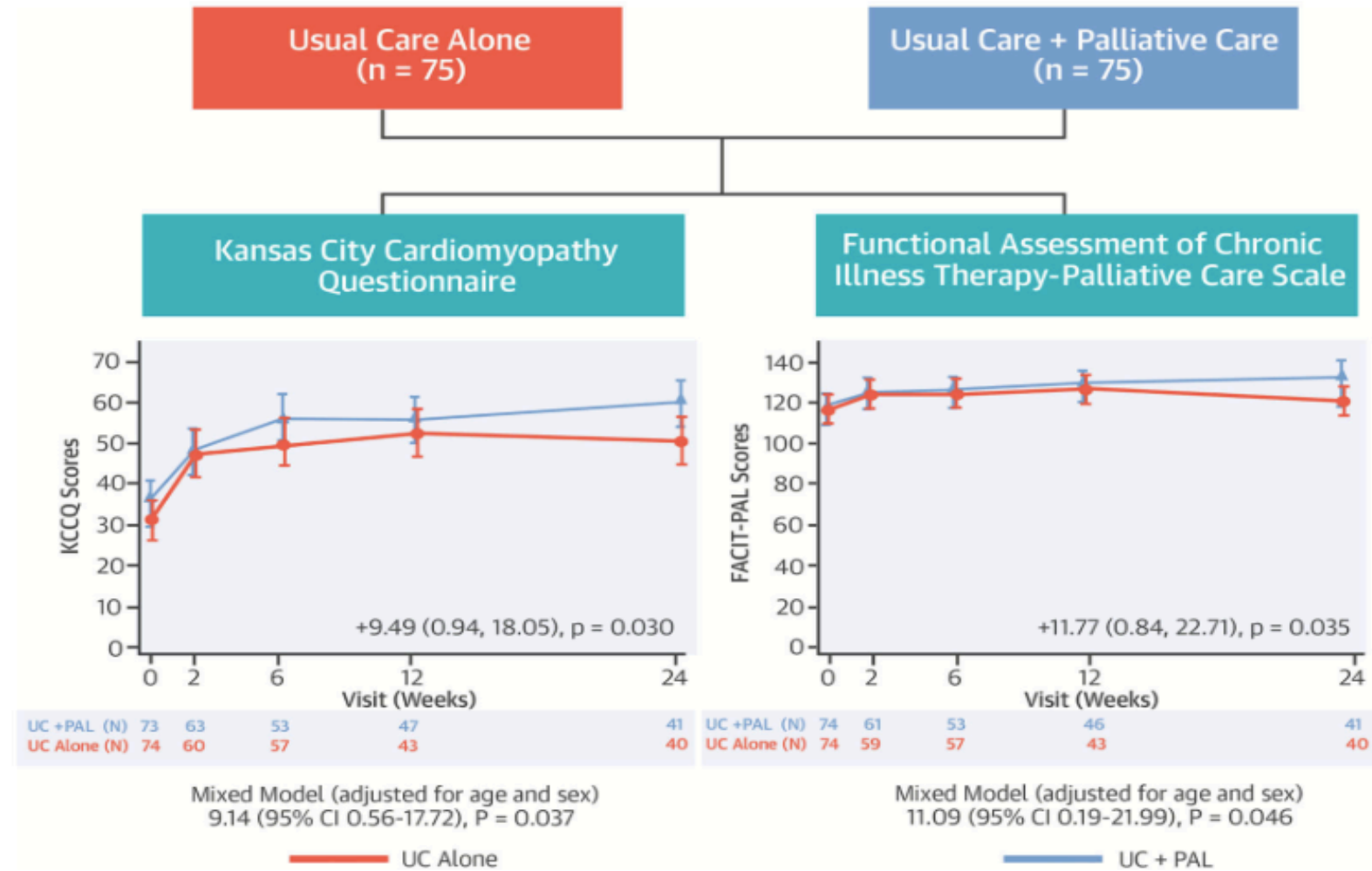


<https://www.pallium.ca/pallium-canadas-covid-19-response-resources/>

Thank you!



PAL-HF



Central Illustration. The PAL-HF study randomized 150 patients with advanced heart failure to usual care or usual care + a multidimensional palliative care intervention

Palliative Care Interventions for Patients with Heart Failure: A Systematic Review and Meta-Analysis

Michelle S. Diop, BA,^{1,2,*} James L. Rudolph, MD, SM,^{2-4,*} Kristin M. Zimmerman, PharmD, CGP,⁵
Mary A. Richter, MD,⁶ and L. Michal Skarf, MD^{7,8}

- Improved QoL and satisfaction
- Meta-analysis- decreased rehospitalizations
- Decrease in resource utilization

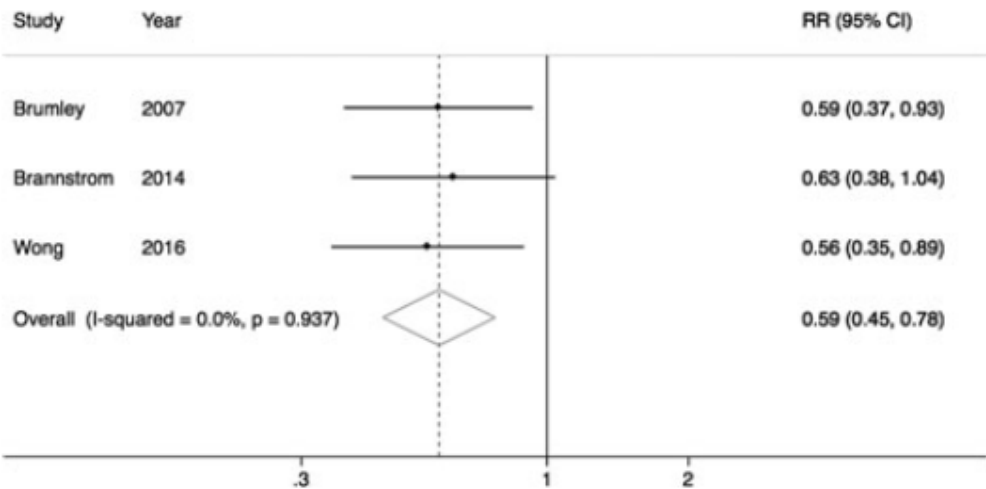


FIG. 2. Meta-analysis of readmissions.

Palliative Care: Improved Survival

Matched cohort study: hospice use or not. 4493 Medicare patients, 2095 (47%) received hospice care for at least one day, 1999	
Disease	Added survival
CHF	+ 81 days, P = 0.0540
Lung cancer	+ 39 days, P < 0.0001
Pancreatic cancer	+ 21 days, P = 0.0102
Colon cancer	+ 33 days, P = 0.0792
Breast	+ 12 days, P = 0.6136
Prostate	+ 4 days, P = 0.8266

Examining the Effects of an Outpatient Palliative Care Consultation on Symptom Burden, Depression, and Quality of Life in Patients With Symptomatic Heart Failure

LORRAINE S. EVANGELISTA, PhD, RN, FAHA, FAAN¹, DAWN LOMBARDO, MD², SHAISTA MALIK, MD, PhD, MPH³, JENNIFER BALLARD-HERNANDEZ, MSN, NP, AACC⁴, MARJAN MOTIE, PhD⁵, and SOLOMON LIAO, MD, FAAHPM⁶
Irvine and Newport Beach, California

Prospective study of outpatient PC consultation in recently hospitalized patients with HF.

Improvement in symptoms at 3 months.

Improved physical health per the Minnesota Living with Heart Failure score.

Effects of person-centred and integrated chronic heart failure and palliative home care. **PREFER: a randomized controlled study**

Margareta Brännström^{1*} and Kurt Boman²

¹Strategic Research Program in Health Care Sciences (SFO-V), 'Bridging Research and Practice for Better Health', Department of Nursing, Umeå University, Umeå, Sweden; and

²Research unit, Department of Medicine, Skellefteå, Institution of Public Health and Clinical Medicine, Umeå University, Umeå, Sweden

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Palliative homecare program for patients
with Heart Failure

Improved quality of life,
symptom burden, NYHA
class.

Decreased hospitalization
rates compared with usual
care.

Inpatient Palliative Care for Patients with Acute Heart Failure: Outcomes from a Randomized Trial

Abbey C. Sidebottom, MPH,¹ Ann Jorgenson, RN,¹ Hallie Richards, MD,²
Justin Kirven, MD,² and Arthur Sillah, MPH¹

- Inpatient PC consult
- Improved PHQ-9 scores and Minnesota Living with Heart Failure score at 1 and 3 months.
- No difference in readmission at 30 days, hospice use or death within 6 months.

TABLE 3. SURVIVAL ANALYSIS OF 30-DAY READMISSION, ADVANCE CARE PLANNING, HOSPICE USE, OR DEATH AT 6 MONTHS

	HR (95%CI) ^a	P value
<i>Readmission within 30 days</i>		
Intervention (ref control)	1.43 (0.5, 4.1)	0.501
<i>Advance care planning within 6 months</i>		
Intervention (ref control)	2.87 (1.09, 7.59)	0.033
<i>Hospice use within 6 months</i>		
Intervention (ref control)	1.60 (0.58, 4.38)	0.360
<i>Death within 6 months</i>		
Intervention (ref control)	1.90 (0.88, 4.09)	0.101

^aThe hazard ratios (HR) are adjusted for age, sex, and marital status.
CI, confidence interval.

Effects of a transitional palliative care model on patients with end-stage heart failure: a randomised controlled trial

Frances Kam Yuet Wong,¹ Alina Yee Man Ng,¹ Paul Hong Lee,¹ Po-tin Lam,² Jeffrey Sheung Ching Ng,³ Nancy Hiu Yim Ng,² Michael Mau Kwong Sham⁴

Table 2 Readmission at 4 and 12 weeks			
	Control (n=41)	Intervention (n=43)	p Value
Number of readmissions at 4 weeks (mean, SE)	0.41 (0.10)	0.21 (0.07)	0.10
Number of readmissions at 12 weeks (mean, SE)**	1.10 (0.16)	0.42 (0.10)	0.001
Readmissions within 28 days (n, %)			
No	29 (70.7%)	34 (79.1%)	0.38
Yes	12 (29.3%)	9 (20.9%)	
Readmissions within 84 days (n, %)*			
No	16 (39.0%)	29 (67.4%)	0.009
Yes	25 (61.0%)	14 (33.6%)	
Tested using Poisson regression and χ^2 test. *p<0.05; **p<0.01.			

Goals of Integrating Palliative Care

- Better communication
- Better quality of life
- Better transitions of care
- Better outcomes