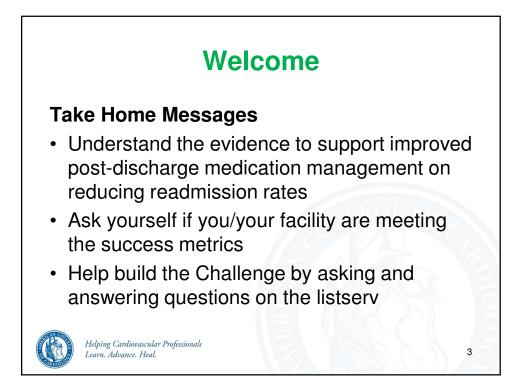


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Торіс	Presenter	Time
Welcome	MaryAnne Elma, MPH	5 min
H2H Challenges	MaryAnne Elma, MPH	5 min
Post-Discharge Med Management Evidence	Adrian Hernandez, MD, MHS Leora Horwitz, MD	25 min 10 min 15 min
Success Measures	Leora Horwitz, MD	
Question-and-Answer	All	

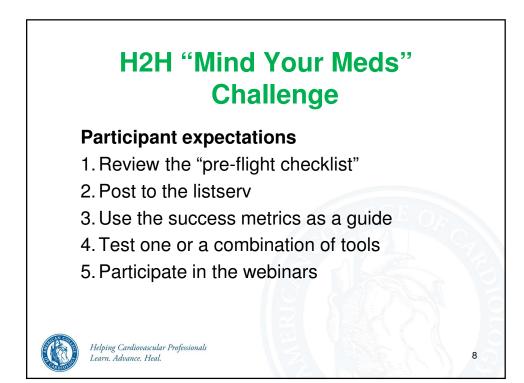


Where we've been				
Community Reach • 1000+ Organizations • 2000+ Participants • 34 Partners • 25 QIOs • \$70K grants in 2010	 Key Activities 25+ presentations 3+ listserv topics/month 6 best practice webinars 400 people per webinar Best practices study with Yale and the Commonwealth Fund 			
Helping Cardiovascular Professionals Learn. Advance. Heal.				



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Post Discharge Medication Management



Adrian Hernandez, MD, MHS

- Dr. Hernandez is a cardiologist at Duke University Medical Center and an Associate Professor of Medicine at the Duke Clinical Research Institute.
- He is actively involved in clinical research from quality of care to clinical trials with a focus on heart failure.
- Dr. Hernandez earned his MD from University of Texas-Southwestern.
- He completed residency at the University of California-San Francisco and fellowship at Duke University.



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Post Discharge Medication Management



Leora Horwitz, MD

- Dr. Horwitz is a general internist and an assistant professor of medicine at Yale.
- She conducts research on transitions of care including readmissions and chairs the Yale-New Haven Hospital readmission reduction committee.



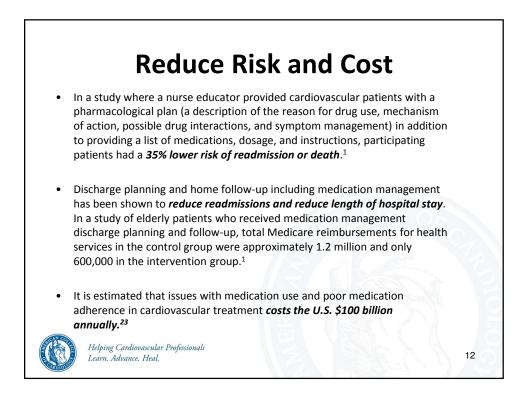
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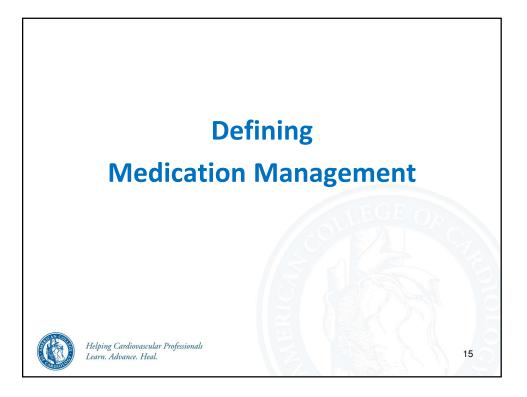
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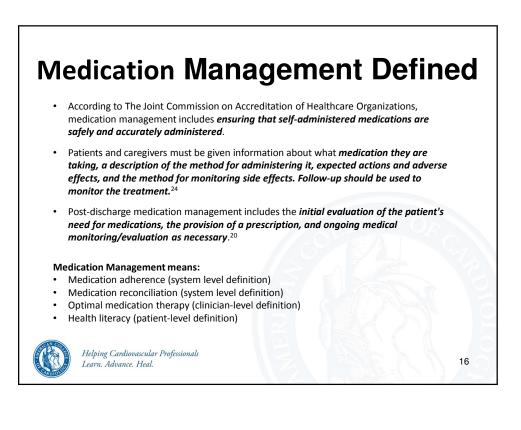


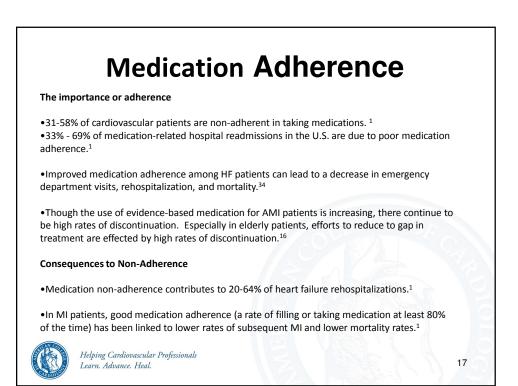


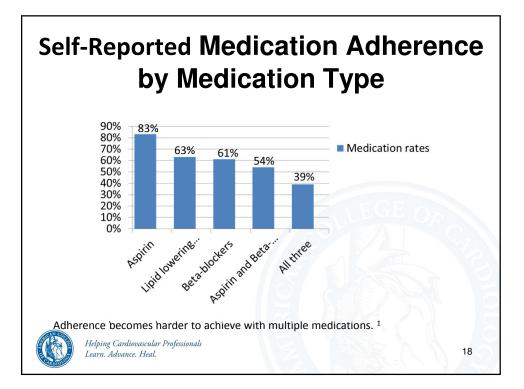


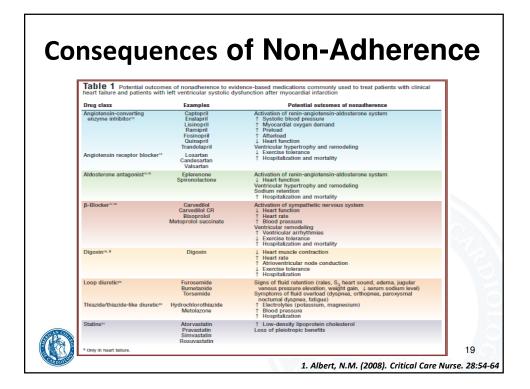
Medication use correlates with a decrease in patient mortality Medication use has been proven to reduce morbidity and mortality in patients with Heart failure and AMI.^{15,5,13} The use of medication as a treatment continues to increase and good medication management is imperative. The increase in cardiovascular medication Table 1 Continued p Valu for Trend 1999 All Years 1995 1996 1997 1998 2000 2001 2002 2003 2004 Use of cardiovascular drugs after MI hospitalization Post-MI statin 7.6 27.7 39.3 48.2 50.7 <.0001 26.7 9.9 16.3 22.2 31.9 45.4 Post-MI BB 50.5 56.8 62.7 66.9 67.8 71.3 <.0001 57.3 41.5 45.7 59.7 71.6 Post-MI ACE/ARB 39.2 41.0 42.0 45.3 44.4 43.1 45.4 47.2 49.7 50.0 <.0001 44.1 Post-MI antiplatelet 2.6 7.9 12.3 19.6 26.8 26.6 37.6 44.7 49.2 50.9 <.0001 24.4 Values represent % for categorical variables and mean (5D) for continuous variables. Covariates were assessed during the 12-month period prior to and during the index MI admission. Prior MI does not include the index MI event. ACE/ARB = angioten werting enzyme inhibitor/angiotensin receptor blocker; BB = beta blocker; MI = myocardial infarction; PCI = percutaneous c nary intervention: PTCA = percutaneous transluminal coronary angioplas Helping Cardiovascular Professionals 14 Learn. Advance. Heal.

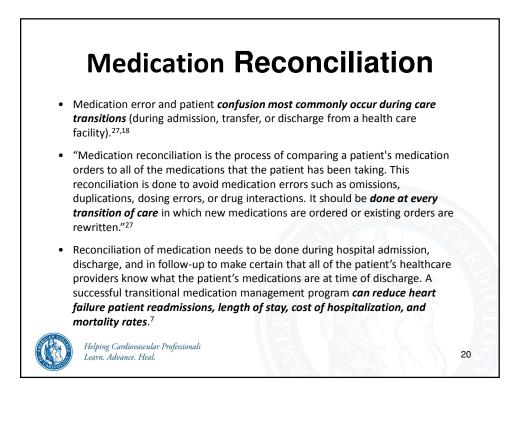












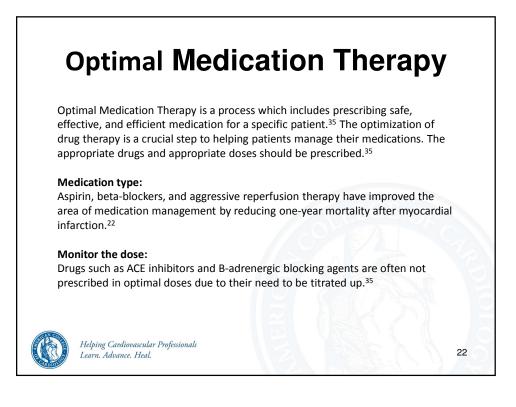
Medication Reconciliation

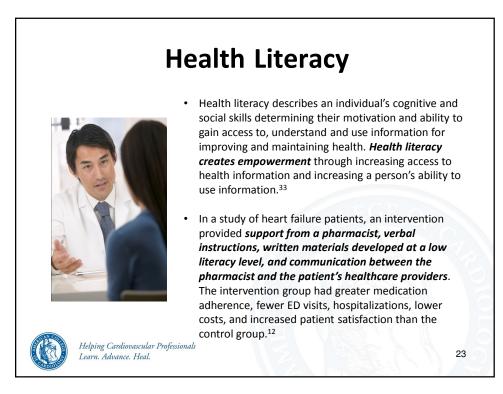
According to the Joint Commission's Hospital Patient Safety Goals, hospitals must:

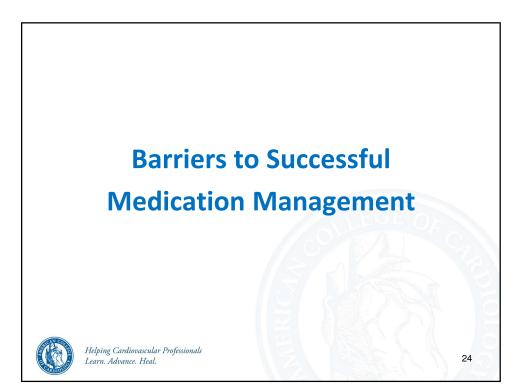
- Find out what medicines each patient is taking.
- Make sure that it is healthy for the patient to take any new medicines with their current medicines.
- Give a list of the patient's medicines to their next caregiver or to their regular doctor before the patient goes home.
- Give a list of the patient's medicines to the patient and their family before they go home. Explain the list.
- Some patients may get medicine in small amounts or for a short time. Make sure that it is healthy for those patients to take those medicines with their current medicines.



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Barriers to Successful Medication Management

Medication-Related Barriers:^{23,19,22,34}

- Complex medication regimens
- Side effects or adverse effects from the medication
- Taking multiple mediations at the same time
- Length of therapy
- · Pharmacy wait time

Clinician-Related Barriers: 23, 19, 22, 34

- Poor relationship with clinician
- Poor communication with clinician
- Cultural, health, and/or religious beliefs disparity between clinician and patient
- Lack of feedback and ongoing reinforcement from clinician



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Patient-Related Barriers:^{23,19,22,32,14,9,31,34}

- Forgetfulness
- Lack of knowledge about medication and its use
- Cultural, health, and/or religious beliefs about the medication
- Denial or ambivalence regarding conditions
- Length of therapy
- Financial challenges
- Lack of health literacy
- Lack of social support
- Lack of transportation to appointments and/or pharmacy
- Confusion about prescription labels
- Difficulty swallowing medication

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Barriers to Medication Adherence

Medication Complexity

The *number of medications prescribed to HF patients continues to increase.* Patients can benefit from reducing the number of times per day that they take medication and the number of pills they take. Polypills provide two or more medications in one pill.¹

Cost

The *cost of medication continues to increase*. Generic medications can be used to decrease the cost. Patient discharge can include a conversation about a drug payment plan.¹



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 Table 2
 Factors that influence medication nonadherence

 Failure to initiate therapy during hospitalization

 Poor communication and education at discharge of the importance of medications

 Complexity of medication engimen

 Polypharmacy

 Frequent dosing

 Medication cost

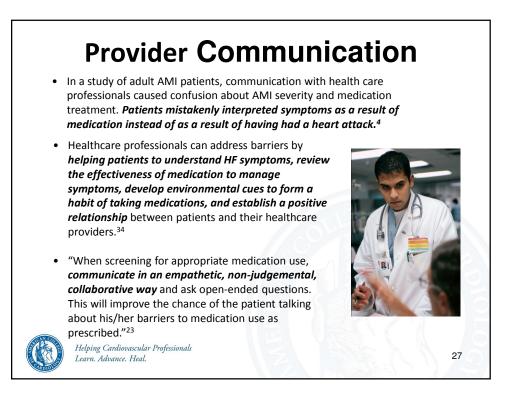
 Adverse effects

 Lack of knowledge about possible adverse effects

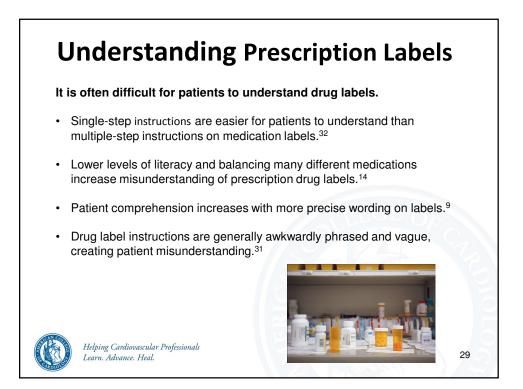
Side Effects

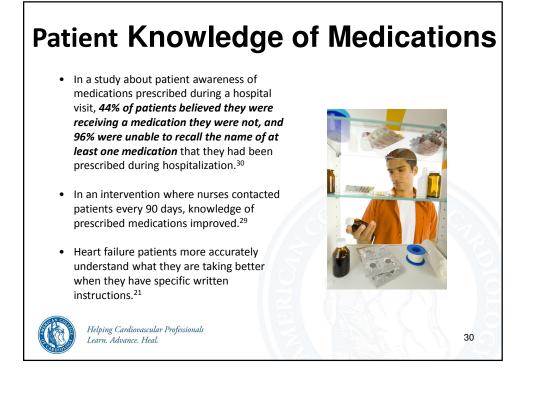
Empowering patients through education on possible side effects can improve adherence. They are better equipped to deal with side effects that they understand, especially if they *know which side effects are temporary and which are permanent.*¹

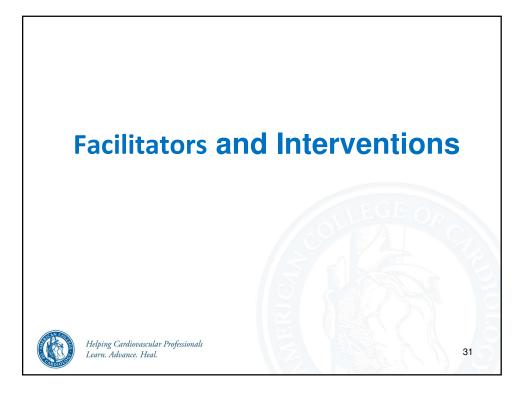
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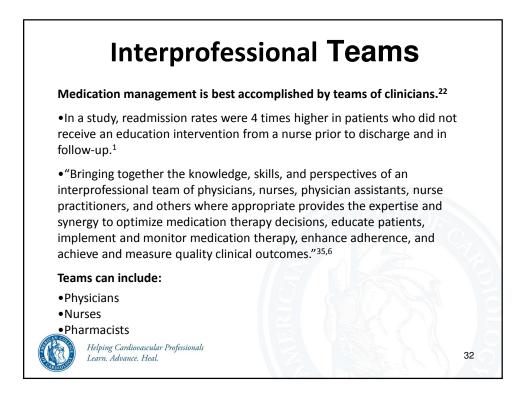












The Role of Physicians



- Physicians can be a key source of support for HF patients. Many patients struggle with negative emotions and complexity of the selfcare regimen. *Physicians have an important role in providing social support to patients and increasing their motivation* to engage in healthy behaviors.²⁵
- It is also important for the physician to *put HF patients in touch with social workers, counselors,* and other care providers that can provide support to the patient.²⁵

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Nurse Participation

Nurse-directed patient education should include¹:

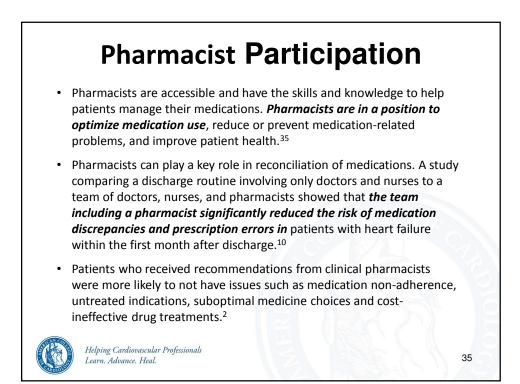
- Comprehensive counseling about discharge medications
- Rationale for use in heart failure or after myocardial infarction
- Dose, how to take, when to take, what to do if a dose is skipped
- Anticipated or transient adverse effects, serious adverse effects
- When to contact a health care provider, which health care provider to contact
- · Food, other drugs, or over-the-counter therapies that could affect drug effectiveness

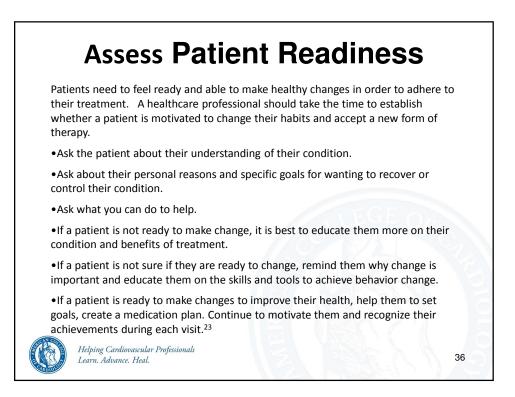
Include patients' family members/caregiver in education session(s)¹:

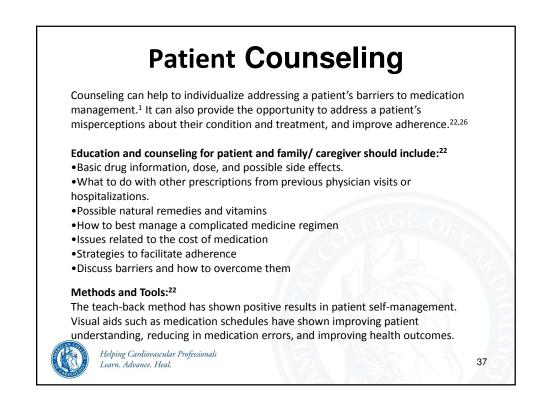
- Review of medications
- Review of possible adverse effects and serious adverse effects
- Outpatient reinforcement of educational information¹:
- Patient reminders: written, telephone
- Home visits
- Clinical visits

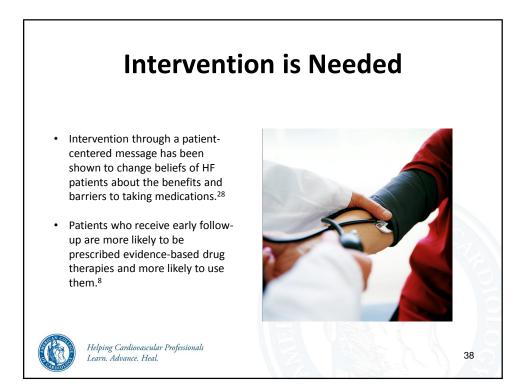


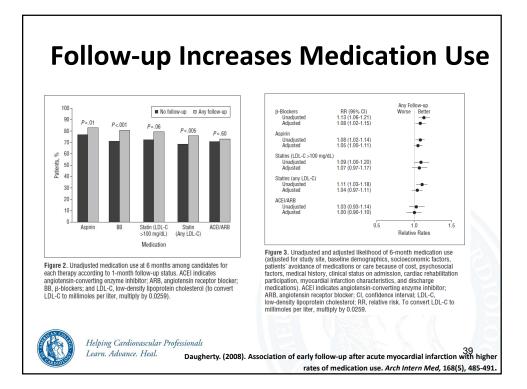
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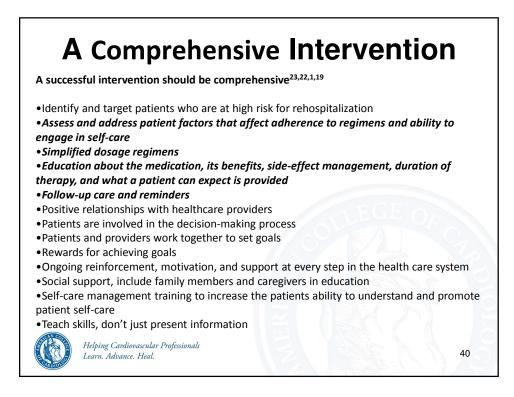


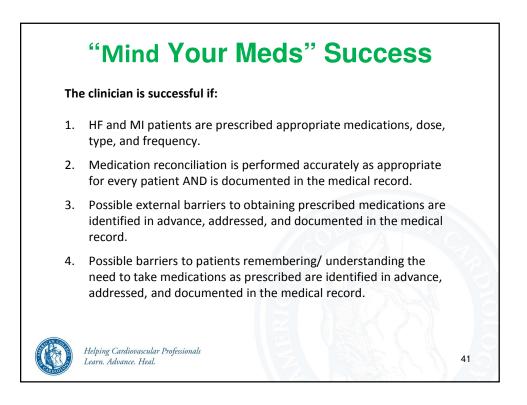


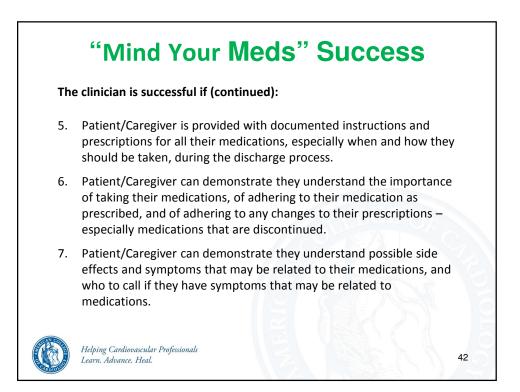


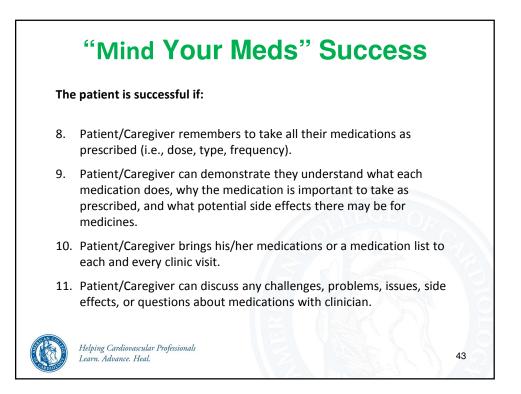




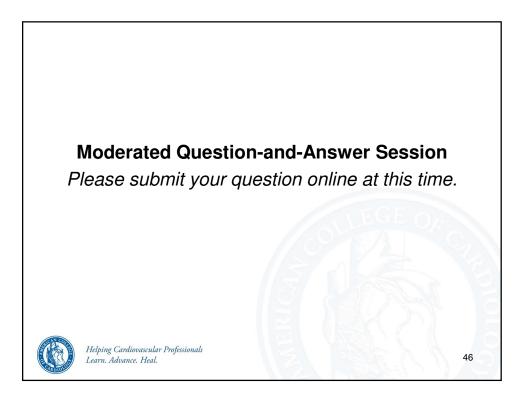


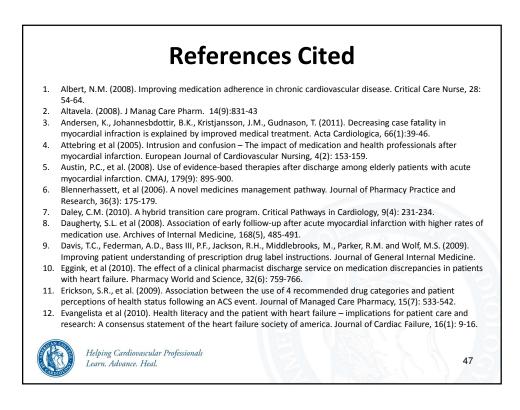












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