Reducing Readmissions Leadership Summit
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Heart Failure Continuum of Care

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Sutter VNA & Hospice
A Sutter Health Affiliate

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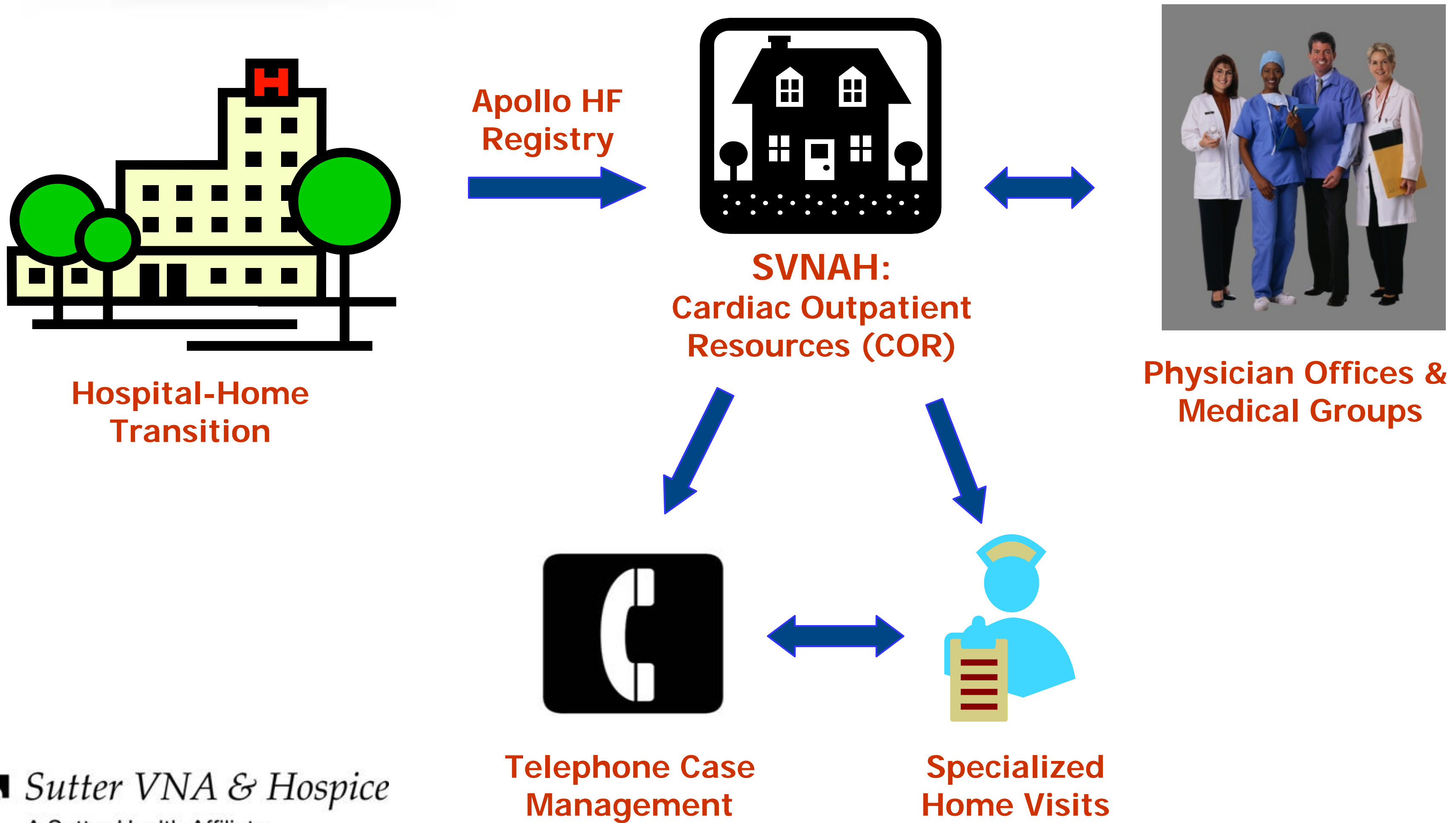
Background

- Sutter Health
  - 26 hospitals, >3000 affiliated physicians
  - 8th largest not-for-profit health system in US
  - Average 30 day “all-cause” HF readmission rates (2008):
    - System-wide 18.9%
    - Alta Bates Summit Medical Center 21%
- Sutter VNA & Hospice
  - Home health, Hospice, HME, Home Infusion, Private duty
  - 20,000 HH pts/yr, 600 hospice avg. daily census
  - Track record of innovation in chronic illness care

Gordon & Betty Moore Foundation

- Grant: October 2007 - April 2010
- Sustainable inpatient-outpatient care model
- Goal: To reduce HF related readmissions by 2010
  - 30-day by 30%
  - 90 day by 30%
  - 1 year by 15%
- All payors

HF Continuum of Care



Evidence-Based Intervention

- HF Continuum consists of 3 components, each adapted from clinical trials of methods shown to reduce HF readmissions:
  - Hospital-Home transition management[1]
  - Telemanagement[2]
  - Specialized home visits[3]
- Implementation is phased so the effect of each component can be evaluated

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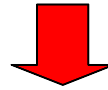
1. Phillips CO et al. JAMA 2004;291:1358-1367.
2. GESICA Investigators. BMJ 2005;331:425-429.
3. Inglis SC et al. Circulation 2006;114:2466-2473.

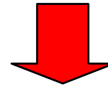
Risk Based Intervention

Screen All Hospitalized HF Patients



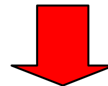
Inpatient intervention

Risk assessment



Telemanagement

Very high risk patients



Specialty Home visits

Cardiac Outpatient Resources (COR)

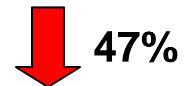
Barriers/Opportunities

- Barriers
  - Hospital: Core measures, case management
  - Patients: substance abuse, CKD/dialysis, health literacy
  - Financial: contribution margin from readmits
- Opportunities
  - Sutter Medicare Affordability initiative
  - System-wide 2010 HF "all-cause" readmit target: 11%
  - Chronic Disease & Advanced Illness Management (AIM)

Alta Bates 30 day Readmission Rates

HF-Specific			
	Readmits	All HF Cases	%
2006 July-2007 June	54	405	13%
2007 July-2008 June	30	360	8.3%
2008 July**-2009 May	21	302	6.9%

Readmission Rate Reduction, 2006-08


47%

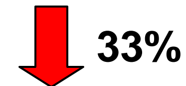
All-Cause			
	Readmits	All HF Cases	%
2006 July-2007 June	96	405	24%
2007 July-2008 June	67	360	19%
2008 July-2009 May	58	302	19%

21%

Summit 30 day Readmission Rates

HF-Specific			
	Readmits	All HF Cases	%
2006 July-2007 June	90	770	12%
2007 July-2008 June	63	626	10%
2008 July**-2009 May	35	452	8%

Readmission Rate Reduction, 2006-08



All-Cause			
	Readmits	All HF Cases	%
2006 July-2007 June	770	181	24%
2007 July-2008 June	626	136	22%
2008 July**-2009 May	452	94	21%

Reflection

- Intervention successful
  - 30-day targets achieved
  - Home visits just implemented
- System-wide dissemination
  - HF initiative
- Project expansion
  - AIM & Chronic disease management

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