Managing Re-admission to Hospital with Disease Management, Outcomes Measurement and Performance Improvement

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Presentation Objective

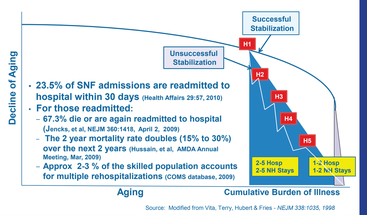
Demonstrate the Clinical and Financial Outcomes Achieved Through Implementation of a System of Disease Management, Standardized Nursing Assessments, Outcomes Measurement and Continuous Performance Improvement

Applied to:

- 3,255 Skilled Residents
- in 10 Skilled Nursing Facilities

The Challenge to Nursing Homes

Stabilization of the Skilled Resident
The National Challenge for Nursing Facilities

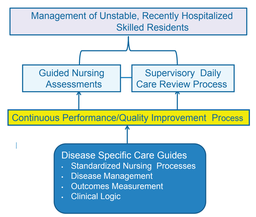


- 23.5% of SNF admissions are readmitted to hospital within 30 days (Health Affairs 28:57, 2010)
- For those readmitted:
  - 67.3% die or are again readmitted to hospital (Jencks, et al, NEJM 360:1418, April 2, 2009)
  - The 2 year mortality rate doubles (15% to 30%) over the next 2 years (Hussain, et al, AMDA Annual Meeting, Mar, 2009)
  - Approx 2-3 % of the skilled population accounts for multiple rehospitalizations (COMS database, 2009)

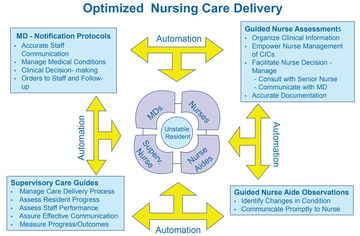
Source: Modified from Vita, Terry, Hubert & Fries - *NEJM 338:1035, 1998*

The System of Disease Management

Clinical Outcomes Management Processes/Tools
Guide Nursing Care and Stabilize Elderly Residents

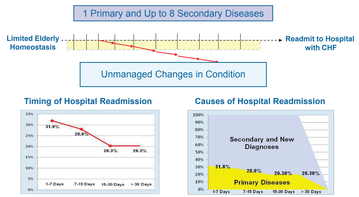


Automated Disease Management Processes
Optimized Nursing Care Delivery

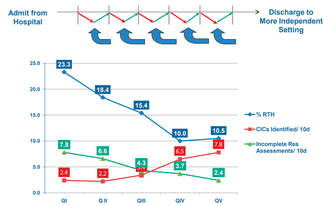


Dynamics of Disease Management

Hospital Readmission Caused by Unmanaged Changes in Condition-
Related to Primary, Secondary and New Diseases

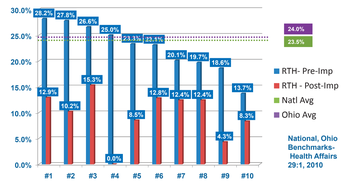


Assessing and Managing Changes in Condition
Reduced Hospital Readmission

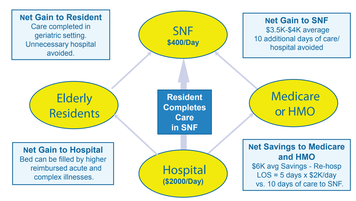


Clinical and Financial Outcomes of Disease Management

Standardized Disease Management Process
Decreased 30 Day Hospital Readmission



The Value Proposition of Rehospitalization Avoided



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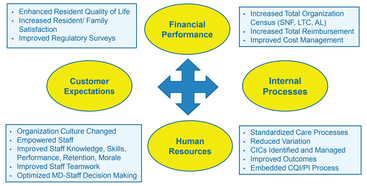
Financial Outcomes of Disease Management
Pre and Post Implementation

Per Quarter	SNF 1	SNF 2	SNF 5	SNF 6	SNF 8	SNF 9	SNF 10
# Res- Pre	66	18	28	36	71	27	35
# Res- Imp	82	38	36	63	67	43	36
ALOS- Pre	21.6	13.2	39.5	18.3	27.0	31.8	27.7
ALOS-Imp	28.1	19.6	43.1	33.1	34.4	32.1	42.5
Bed Days Occ-Pre	1426	238	1107	660	1917	858	970
Bed Days Occ- Imp	2304	760	1552	2085	2305	1380	1530
Skilled Reimbursement- Pre	$427800	$53066	$331800	$166200	$505332	$245737	$325474
Skilled Reimbursement- Imp	$714332	$318691	$579180	$665118	$898042	$588193	$546702

Outcomes Profile
Ten Homes, 3255 Residents

	Pre Implementation- Average/ Qtr	Total Implementation- Average/ Qtr
# Residents	33	45
Avg Length of Stay	25.3	28.4
Bed Days Occupied	834	1280
Discharge-Community	32.5%	37.3%
Discharge to LTC	31.7%	38.7%
Readmit to Hosp- <30d	24.3%	14.0%
Readmit to Hosp-> 30d	4.3%	6.3%
Sched Proc; Other SNF	0.9%	0.4%
Expired	6.3%	3.4%
Skilled Reimbursement	$319,178	$590,427

Results: Decreased Hospital Readmission, Optimized Nursing Staff Performance and Improved Clinical and Financial Outcomes



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