30 Day Readmission Efforts Within the Heart Failure Population

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Why Heart Failure?

- 1 in 4 HF patients are re-hospitalized within 30 days, costing upwards of 17 billion \$ per year in hospital payments
- Total cost of HF is estimated to be 34.4 billion
 \$ per year
- Complexity of patient needs, consistent follow up care

Why Heart Failure?

- CMS penalties
 - HF, AMI, pneumonia
 - 2012 penalty was 1% of total CMS reimbursement, will increase yearly

• In 2012

- 71% hospitals were penalized (2217)
- 307 will lose maximum 1% reimbursements
- Estimate \$850 million will be reallocated

Focused Interventions

- Inpatient
 - Core measures, clinical guidelines, multidisciplinary approach
- Transition
 - Adequate discharge planning
 - Addressing of social issues
 - Identification of potential barriers to care
- Outpatient
 - Hospital follow up appointments
- Continued care
 - Access to healthcare providers

Nurse Navigators

- Implementation of Nurse Navigators
 - 2 Nurse Navigators (Master's prepared Clinical Nurse Leaders)
 - Collaboration and lateral integration of multidisciplinary team
 - Patient education and counseling
 - Relationship building
 - Contact throughout healthcare continuum
 - Process improvement





Heart Failure Transition Clinic

- Transition clinic utilization
 - Nurse Practitioner led
 - Hospital follow up within
 10 days of discharge
 - Available for "quickie visits"
 - IV lasix protocol
 - Outpatient ultrafiltration

Preventing the Readmission

- Use of observation status and Clinical Decision Unit
 - Emergency Department education
 - Protocol and order set usage
- Efficient and focused care
 - Placement of patient on specific unit or service
- Quick discharge to skilled nursing facility or hospice
 - Palliative Care team
 - Case management and Social Work









Strategies to Reduce Rehospitalization for COPD and Pneumonia Discharges

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Objectives

•Discuss the burden of rehospitalization for patients discharged with COPD exacerbation and pneumonia

•Discuss risk factors for and causes of preventable readmissions

•Discuss proven strategies in the posthospitalization management of patients with COPD exacerbation and pneumonia to decrease rates of rehospitalization

•Discuss an innovative approach to improvement in rehospitalization of patients with COPD at OSU East: A COPD Transitional Care Clinic



Condition at Index Discharge	30-Day Rehospitalization Rate	Proportion of All Rehospitalizations		
			Most Frequent	2nd Most Frequent
Medical	perce	1412		
All	21.0	77.6	Heart failure (8.6)	Pneumonia (7.3)
Heart failure	26.9	7.6	Heart failure (37.0)	Pneumonia (5.1)
Pneumonia	20.1	6.3	Preumonia (29.1)	Heart failure (7.4)
COPD	22.6	4.0	COPD (36.2)	Pneumonia (11.4)
Psychoses	24.6	3.5	Psychoses (67.3)	Drug toxicity (1.9)
GI problems	19.2	3.1	GI problems (21.1)	Nutrition-related or metabolic issues (4.9)
Surgical				
All	15.6	22.4	Heart failure (6.0)	Pneumonia (4.5)
Cardiac stent placement	14.5	1.6	Cardiac stent (19.7)	Circulatory diagno- ses (8.5)
Major hip or knee surgery	9.9	1.5	Aftercare (10.3)	Majorhip or knee problems (6.0)
Other vascular surgery	23.9	1.4	Other vascular sur- gery (14.8)	Amputation (5.8)
Major bowel surgery	16.6	1.0	GI problems (15.9)	Postoperative in- fection (6.4)
Other hip or femur surgery	17.9	0.8	Preumonia (9.7)	Heart failure (4.8)
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Variable	Hazard Ratio (95% Confidence Interval)
Hospital's ratio of observed to expected hospital- izations†	1.097 (1.096-1.098
National rehospitalization rate for DRG†	1.268 (1.267-1.270)
No. of rehospitalizations since October 1, 2003	
0	1.00
1	1.378 (1.374-1.383)
2	1.752 (1.746-1.759)
≥3	2.504 (2.495-2.513)
Length of stay	
>2 times that expected for DRG	1.266 (1.261-1.272)
0.5–2 times that expected for DRG	1.00
<0.5 times that expected for DRG	0.875 (0.872-0.877)
Race:	
Black	1.057 (1.053-1.061)
Other	1.00
Disability	1.130 (1.119-1.141)
End-stage renal disease	1.417 (1.409-1.425)
Receipt of Supplemental Security Income	1.117 (1.113-1.122)
Male sex	1.056 (1.053-1.059)
Age	
<55 yr	1.00
55–64 yr	0.983 (0.978-0.988)
65–69 yr	0.999 (0.989-1.009)
70–74 yr	1.023 (1.012-1.035)
75–79 yr	1.071 (1.059-1.084)
80–84 yr	1.101 (1.089-1.113)
85–89 yr	1.123 (1.111-1.136)
>89 yr	1.118 (1.105-1.131)





Medicare Avoidable Readmission Penalty

Incentive to improve care transitions and reduce avoidable readmissions

•Poor performing Hospitals (bottom quartile) will have <u>all</u> Medicare payments penalized

•Reduced Medicare DRG payments by 1%, rising to 3%

•3 targeted conditions 2012

•Expanded to 7 targeted conditions 2015

•Readmission window 30 days

Medicare Avoidable Readmission Penalty

Hospital-specific readmission rates to be published on Medicare Hospital Compare website

Does not apply to Critical Access Hospitals

•Not limited to preventable, avoidable readmissions

•Applies even if readmitted at another hospital

Likely to be expanded beyond the proposed 7 conditions

Targeted Conditions

2012

•Pneumonia

•Heart Failure

•Acute Myocardial Infarction

2015

•Chronic Obstructive Pulmonary Disease

•Coronary Artery Bypass Grafting

Urinary Tract Infection

•Percutaneous Transluminal Coronary Angioplasty



•Worrying my patient will be "lost" to follow-up

•My patient has no insurance

•My patient has no primary care physician

•My patient needs to see a subspecialist sooner than 3 months from now

•I'm already too over-booked to see this patient within the next 3 days

•I have no idea what happened while this patient was in the hospital





Risk Factors for Readmission Prior hospitalization within the last 12 months Black race Low health literacy Social isolation Leaving against medical advice

Common Causes of Readmission

- •Premature discharge
- Inappropriate site of discharge
- Insufficient follow-up
- •Medication errors/Adverse drug events
- Poor transfer of information
- •Procedural complications
- Nosocomial infections

Common Causes of Readmission

Pressure ulcers
Patient falls
Insufficiently addressed co-morbid conditions (especially psychiatric conditions)
Failure to address end of life care
Failure to involve home health







Common Reasons for COPD Readmission

Inability to obtain medications
Improper inhaler technique
Insufficient follow-up
Underutilization of pulmonary rehabilitation
Tobacco dependence
Comorbid conditions

Supplemental Therapy With Proven Efficacy

- 1. Smoking Cessation
- 2. Oxygen
- 3. "Triple Inhaler Therapy"
- 4. Vaccination
- 5. Pulmonary Rehabilitation



Image provided courtesy of the CDC

Supplemental Therapy With Proven Efficacy

- 6. Chronic Macrolide Therapy
- 7. Roflulimast
- 8. Lung Volume Reduction Surgery
- 9. Lung Transplantation
- 10. Palliative Treatment of Dyspnea
- 11. Hospice



Image provided courtesy of the CDC

What is Pulmonary Rehabilitation and Why Should I Send My Patient for it?





















Post-Hospital Management of Community-Acquired Pneumonia

Follow-up chest x-ray 4-6 weeks following admission to exclude malignancy
Smoking cessation counseling (smoking is a risk factor for CAP)
Patients at risk for CAP should receive Influenza and Pneumococcal Vaccination
HIV testing for patients age 15-54 admitted with CAP, or anyone with risk factors
PPD testing for those patients with tuberculosis risk factors

Predischarge Interventions

Patient Education
Discharge planning
Medication Reconciliation
Scheduling follow-up appointments

Postdischarge Interventions

- •Follow-up phone call
- •Communication with ambulatory provider
- •Home visits
- •Teleconferencing visits
- Transitional care clinics

Bridging Interventions

•Transition coaches

•Patient-centered discharge instructions











OSU East COPD Transitional Care Clinic

- For Patients With a Primary Discharge Diagnosis of COPD Exacerbation
- All Visits Led by Advanced Practice Nurse (APN)
- Patients Seen Within One Week of Discharge
- Two Appointments Per Patient
- Clinic Located Within Walking Distance of Hospital
- Completed a Retrospective Review of the Clinic's First Year of Operation (08/01/2011-07/31/2012)

Clinic Interventions

- Medication Reconciliation
- Assessment of Response to Therapy and Medication Adjustments as Necessary
- Smoking Cessation Counseling
- Inhaler Technique Training
- Vaccination

Clinic Interventions

- Follow-up of Micro and Radiology from Hospitalization
- Pulmonary Rehabilitation Referral
- Pulmonary Function Testing, Arterial Blood Gas Analysis, and Bone Density Testing When Indicated



Summary

•Nationally, readmissions for pneumonia and COPD are exceedingly high at a great financial cost to the healthcare system

•Preventing avoidable readmissions has the potential to profoundly improve both the quality-oflife for patients and the financial well-being of healthcare systems

•Critical elements to successful hospital discharge include accurate medication reconciliation,

establishing timely follow-up, and communication of the discharge plan to the primary care physician

Summary

•Several systems initiatives have shown promise in reducing rates of readmission including enhanced patient education and empowerment, home visits, telephone calls, transitional care managers, and early post-discharge follow-up at transitional care clinics

•Multiple concurrent interventions may be more effective than single components