Transforming Outcomes through Implementation of a Nurse Practitioner Hospitalist Service



LONG DEACH MEMORIAL Miller Children's Hospital Long Beach

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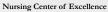
About Long Beach, CA

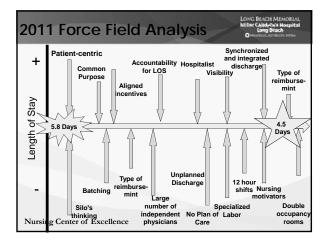
- Located in South Los Angeles County
- Seventh largest city in California
- Primary service area is app. 650,000 people
- Population app. 500,000 with >50% Hispanic/Latino or other minorities
- Largest Cambodian population outside Cambodia
- Shipping, oil, aircraft, education and healthcare are the largest industries



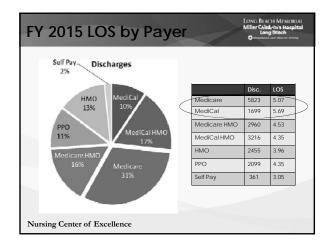




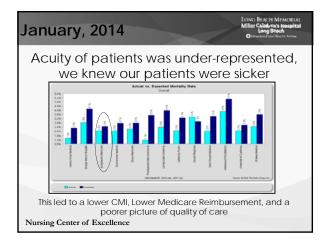














Three primary patient types

- Unassigned- patients arriving in the medical center through the ED without a PCP- contracted hospitalist service.
- Assigned- patients arriving in the medical center through the ED with a PCP who does not care for patients in the hospital-they select internist.
- Specialist directed admission who wants a hospitalist they select internist.

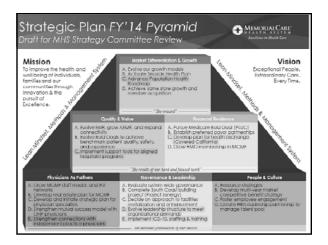
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Quarter 2, FY 2014 Physician Type	Discharges	Actual Medicare LOS	Medicare GMLOS	СМІ
Unassigned Hospitalist	432	4.33	4.40	1.68
Frequent Assigned	216	5.63	4.28	1.74

- practiced at multiple hospitals so saw patients once/day ٠ did not return calls to nursing staff delaying progression
- of care and appropriate interventions ٠ rounded at variable times - many in the middle of nightdelaying patient progression
- Unaligned incentives with the hospital •

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Nurse Practitioner Solution

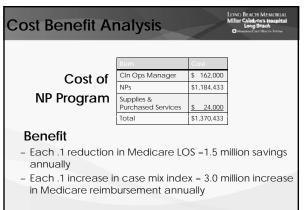
- January, 2014 needed innovative interventions
- Based on a partnership model you help us and we will help you - and ourselves.
- February, 2014 presented Business Case to Executive Committee for NP hospitalist model to support assigned internists.
- Case accepted and implementation of NP hospitalist program started immediately.

Nurse Practitioner Solution

One of four strategies implemented to decrease LOS and accurately report CMI

- 1. NP hospitalist service for assigned patients
- 2. Contracted hospitalist service for unassigned patients
- 3. Clinical Documentation Improvement Program
- 4. Escalation Huddles

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The NP Hospitalist Service will assist a pilot group of LBM private practice internists with assigned patients.

The service may be expanded to other LBM physicians and Miller Children's physicians in the future.

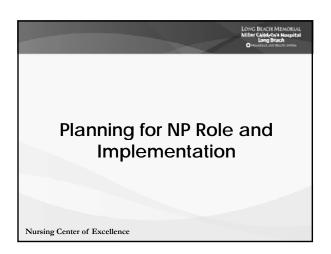
Target Condition

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Implement 24/7 NP Hospitalist Service to:

- Document accurately to reflect case mix index, and thus severity of illness and risk of mortality
- Reduce delays in care progression and unnecessary LOS
- Create partnership with internists not closely aligned with the hospital goals

dult NP Hospitalist Service	Mescale Dar Herrs Sense
Steps to Implementation	Date
Met with employed Nurse Practitioners in the medical center to discuss opportunity	January 2014 (22 attended)
Met with identified assigned internists to make them aware of the potential new service and the benefits to them (CNO and CMO)	February through March 2014
Posted positions and interviewed NP Clinical Operation Manager Adult NP Hospitalists- 7.0 FTEs (7 full-time and 1 part-time)	February 2014
Start of NP orientation program (2 month program)	March 24th 2014
Adult NP service fully operational	May 26 th 2014



Planning for NP Role

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Need a standard process for planning and implementing the NP role

- Avoid barriers
- Provide optimal development of role

Utilized PEPPA Framework

- P = Participatory
- E = Evidence-based
- P = Patient-focused
- $\label{eq:P} {\sf P} = {\sf Process for guiding the development, implementation,} \\ {\sf and evaluation of}$
- A = Advance practice nursing

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PEPPA Framework

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- Bryant-Lukosius & DiCenso developed framework to help guide implementation of APN
- Developed by combining two different models for the APN
 - Spitzer in 1978
 - Dunn and Nicklin in 1995
- Nine step process for implementation

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Step 1	Define the population and describe the current model of care
Step 2	Identify stakeholders and recruit participants
Step 3	Determine the need for a new model of care
Step 4	Identify priority problems and goals to improve the model of care
Step 5	Define the new model of care and APN role
Step 6	Plan implementation strategies
Step 7	Initiate APN role implementation plan
Step 8	Evaluate the APN role and new model of care
Step 9	Long-term monitoring of the APN role and model of care

PEPPA Framework

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• Step 1-5 (Initiated by Administration)

- Analyze current state, processes and models
- Is the NP role going to meet the needs of the organization, strategic initiatives, hospital, and patients.
- Identify priority problems and goals
- Define the new model

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Bryant-Lukosius & DiCenso, 2004; Sangster-Gormley et al., 2011

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PEPPA Framework

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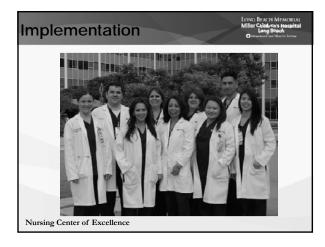
Steps 6-7

- Initiating of a plan for the implementation of the role
- Look at barriers and challenges
 - If barriers and challenges not addressed then synergy and desired outcomes will not occur

Bryant-Lukosius & DiCenso, 2004; McNamara et al., 2009; Sangster-Gormley et al., 2011 Nursing Center of Excellence

Barriers and Challenges Understanding the goals, role, and strategic initiatives Organizational culture NP Role Job description

- Union-CBAReporting structure
- Orientation
- Nursing policies-Standardized Procedures
- Privileging & medical staff policies
- Acceptance by multidisciplinary teams and MDs
- Burnout and retention
- · Outcome and financial evaluation
- $\label{eq:Bryant-Lukosius \& DiCenso, 2004; McNamara et al., 2009; Sangster-Gormley et al., 2011 \\ Nursing Center of Excellence$



Nurse Practitioners

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- Extensive Interview Process
 - Nursing administration reviewed applicants and Interviewed
 - Looked at clinical knowledge, communication, teamwork, positive attitude, and commitment
- Hired 8 NPs (7 full-time, 1 part-time)
 - 7 internally
 - 5 new graduates, 2 never worked as hospitalist NP
 - Allowed for 2nd job code so could return to unit
 - 1 externally with experience as Hospitalist NP

Orientation Program

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- Two week intensive classroom orientation
 - Explanation of strategic goals of program
 - Initial needs assessment
 - Epic trainingClinical documentation (CDI) classes
 - Team building exercises
 - Team building exercises
 - Clinical- DM, Neuro, Cardiac, Pharmacology
- Six week shadowing/precepting with physicians and other NPs in hospital
- Clinical competency assessment and validation tool utilized during orientation

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Medical Staff

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and Privileging

- Collaboration with Medical staff and Medical Directors
 - Previously took 3-9 months for privileges
 - NPs were granted temporary and then full privileges within 2-3 months
- Proctoring process
 - 90 day process for experienced NPs
 - Utilized existing medical staff processes and documents
 - 1 year process for new grads (6 NPs)
 - Worked with nursing education to specify competencies
 - Standardized physician sign off on proctoring documentation

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Service Implementation

- Adult NP service a 24 hour service with operations 7 days a week including holidays
- 7 Physicians initially divided up into 2 teams

(Red and Blue)

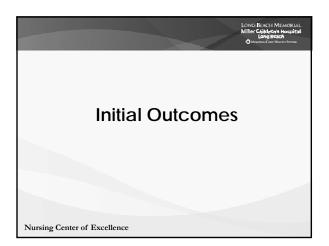
- 2-3 NPs from 6am to 6pm
- 1 NP 6pm to 6am
- Oversee Admission, discharge, and daily progression of patients with physicians
- Update problem lists with appropriate clinical documentation
- Example: Acute postop blood loss anemia instead of Anemia
 Standard work created
- Documentation, expectations, and goals

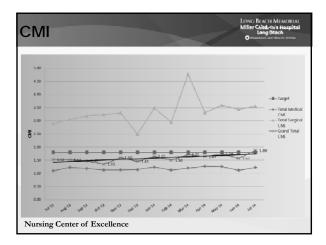
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PEPPA Framewo	rk
Steps 8-9	

- Outcomes & evaluation often forgotten when first implement the role
- Changing environment need both short and long term monitoring of role
 - Allows for the role to evolve to meet the changing governmental regulations, hospital, and needs of patients

Bryant-Lukosius & DiCenso, 2004; McNamara et al., 2009; Sangster-Gormley et al., 2011 Nursing Center of Excellence







Barriers to CMI

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• NP barriers

- Knowledge and education
- Periodic peer review
- Physician barriers
 - Education on proper clinical documentation
 - Standard use of NP documentation
- Coding
 - Clarification on what could code from notes
 - Education of coding staff





Barriers to LOS

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New grad NPs

- Extensive education on discharge planning at admission
- Standard work and EMR templates
- Schedule standardization

Physician barriers

- Sharing of data and outcomes
- Sharing of best practices
- Administrative support

Family barriers

- Improved communication via NPs
- Standard work and EMR templates around communication with families

· Long term care placement

- Working relationships with places in community Nursing Center of Excellence

Metric	March 2013-2014	March 2014-2015
CMI	1.54	1.63
LOS	5.3 (4.9)	5.0 (5.5)
Complications of Care	3.73% (2.31)	2.74%(2.84)
Mortality Rate	4.44 % (3.58)	3.84% (4.62)
Readmissions	16.40%(12.90)	18.28% (13.97)

Financial Outcomes

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Medicare CMI

Improvement of 0.09= \$810/patient (807) Totaled \$653,670 return for hospital

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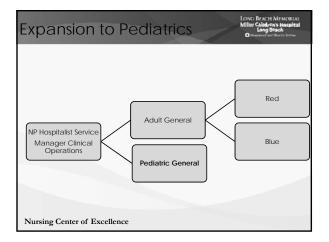
Medicare LOS

Improvement of 0.3= \$390/patient (807) Totaled \$314,730 return for hospital

Total \$968,400 return for hospital



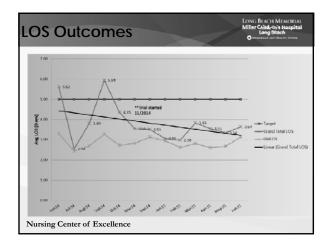




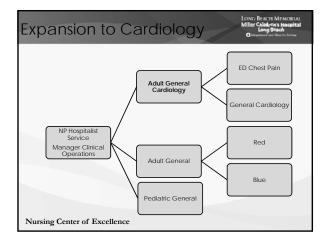
Pediatric NP Team

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- Assist teaching service in general pediatrics
 - Issues with continuum of care
 - Issues with communication
 - Recent transition to APRG (CMI)
 - LOS
- Started with a trial in November 2014 due to concerns over NP role from Teaching service
- Hired 3 NPs (2.7 FTEs) internally for trial
 - Worked Monday through Sunday (including holidays) 6am to 6pm
 - Followed similar model of adults but orientation modified to meet needs of trial
- Trial stopped only after 2 months and role fully implemented and additional 0.9 FTE hired Nursing Center of Excellence









Adult Cardiology Team

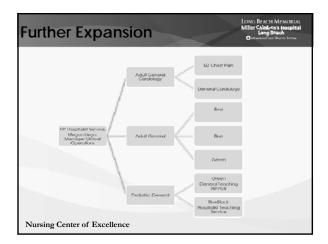
- Additional 1.8 FTE (2 NPs)
- Coverage of internal medicine cardiologists
 LOS and CMI
- Coverage of CP patients in ED- June 2015 – Initial implementation ED CP delayed due to
 - changes physicians coverage
 - Help with inappropriate admissions
 - Help with fast track of Low Risk patients
 - Stress Testing
 - CP clinic
- Initial data shows a decrease LOS and admissions

Lessons Learned

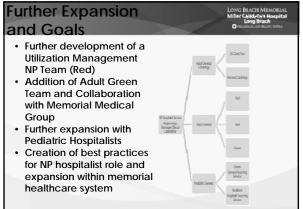
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- Utilize standard processes
- Be aware of organizational culture
- · Identify barriers early in implementation
- Be realistic when identifying goals and timeline
 - New grad education and clinical skills
 - Lead time for program implementation
- Monitor outcomes and make adjustments as needed

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