Lehigh Valley Health Network LVHN Scholarly Works

Patient Care Services / Nursing

Improving Nurse to Patient Ratios in the Emergency Department Utilizing LEAN

Paul Delpais MSN, RN, CEN, NEA-BC Lehigh Valley Health Network, Paul_A.Delpais@lvhn.org

Lindsa Houck MSN, RN, NEA-BC, CEN, CPEN, PHRN Lehigh Valley Health Network, lindsay_j.houck@lvhn.org

Follow this and additional works at: https://scholarlyworks.lvhn.org/patient-care-services-nursing

Part of the Nursing Commons Let us know how access to this document benefits you

Published In/Presented At

Delpais, P., & Houck, L. (2015, October 21). *Improving Nurse to Patient Ratios in the Emergency Department Utilizing LEAN.* Poster presented at: Pennsylvania Organization of Nurse Leaders Nursing Leadership Symposium in Gettysburg, Pa.

Delpais, P., & Houck, L. (2016, October 28). *Improving Nurse to Patient Ratios in the Emergency Department Utilizing LEAN*. Poster presented at: Research day 2016, Lehigh Valley Health Network, Allentown, PA.

This Poster is brought to you for free and open access by LVHN Scholarly Works. It has been accepted for inclusion in LVHN Scholarly Works by an authorized administrator. For more information, please contact LibraryServices@lvhn.org.

Improving Nurse to Patient Ratios in the Emergency Department Utilizing LEAN Emergency Services - LVH–Cedar Crest campus Lehigh Valley Health Network, Allentown, PA

Background

- Current staffing model for a busy Level 1 Trauma Center Emergency Department (ED): primary 1:4 nurse to patient ratio, supported by a registered nurse (RN) "pod leader," RN charge nurse and RN core trauma nurse.
- As volumes and acuity escalated, along with inpatient capacity constraints, RNs could experience having primary responsibility for up to 7 patients.
- Clinical nurse input via Leadership Rounding and Employee Satisfaction Survey prompted a re-evaluation of the staffing model.

Goal

Develop at least one or more cost neutral RN staffing model(s) that could be piloted through rapid cycle tests (RCTs).

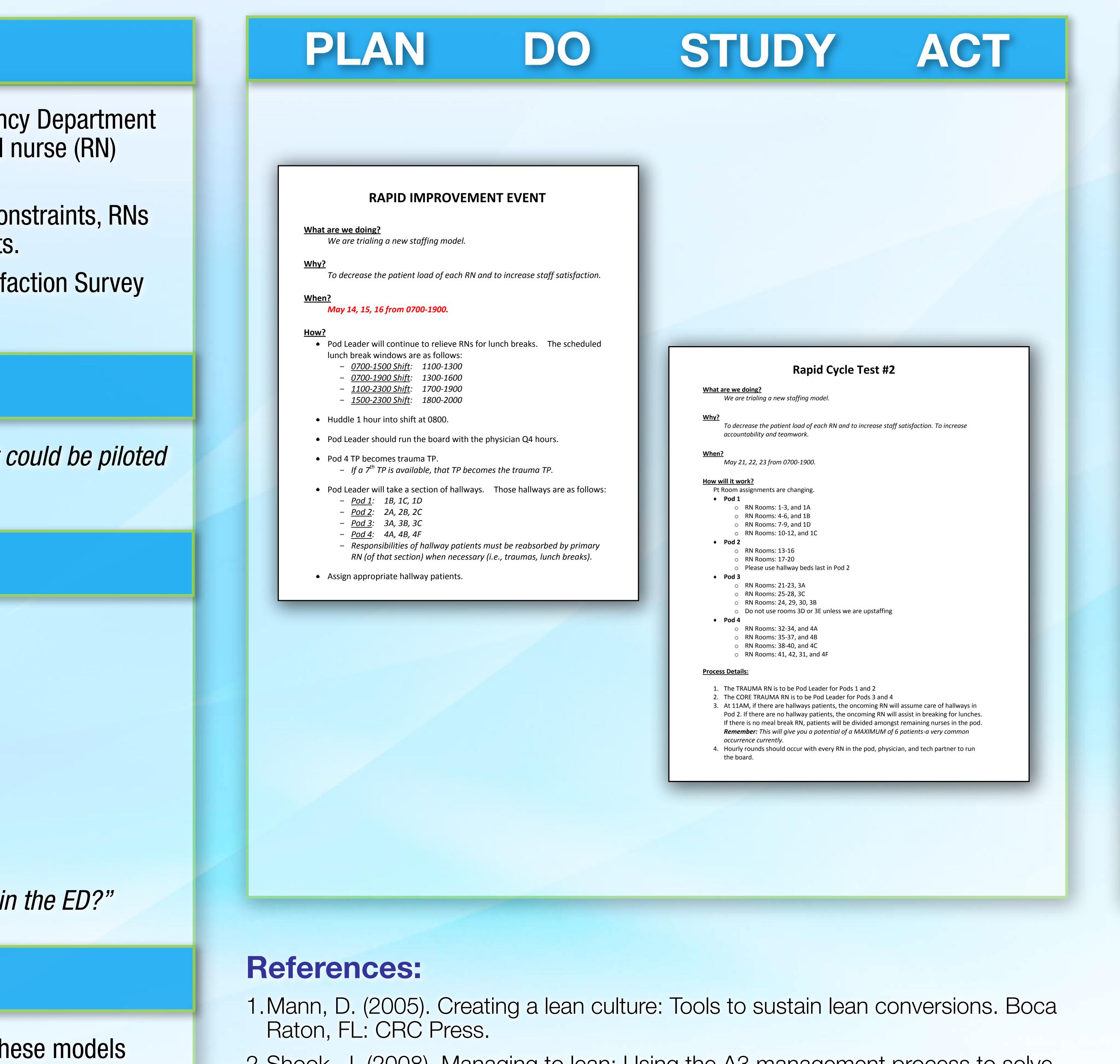
Process

8-Hour Rapid Improvement Event (RIE)

- Participants
 - ED clinical nurses
 - Internal lean coach
 - ED director
 - RN administrator
 - Medical vice chairperson
 - Patient care specialist (educator)
- **Q:** "What is the optimal RN staffing model to maximize efficiency in the ED?"

Result

Two different staffing models were designed by the participants. These models were tested during three, 3-day Rapids Cycle Tests (RCT's). Feedback from staff was gathered via a formal evaluation tool and shared with all staff.



2. Shook, J. (2008). Managing to lean: Using the A3 management process to solve problems, gain agreement, mentor, and lead. Cambridge, MA. Lean Enterprise Institute, Inc.

no greater than a

