

## Lahey Hospital & Medical Center



H-Lab 2016

## Company Background



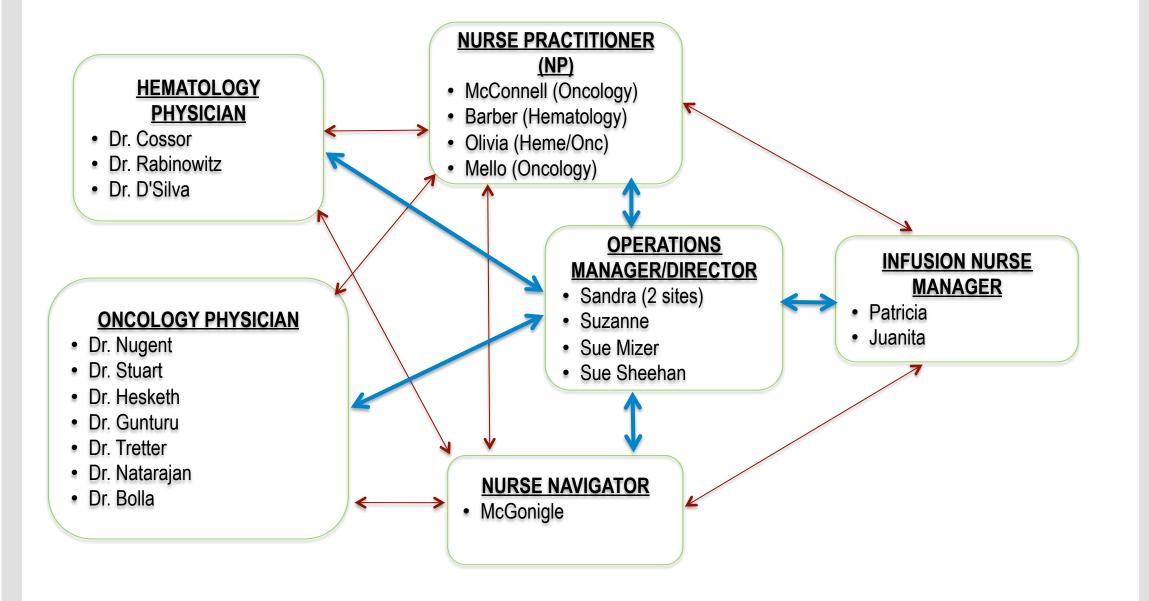
- Physician-led, nonprofit group practice
- Medical centers in Burlington, Lexington, and Peabody, MA with more than a dozen community primary care and satellite specialty care locations throughout northeastern MA and southern NH
- Over 500 physicians and 5,000 nurses, therapists and other support staff

#### **Problem Statement**

Characterize inefficiencies in current oncology/hematology clinical workflow at Peabody, Burlington & Winchester campuses

#### Assess & Aggregate

Provider shadowing



#### Observational Hypotheses

- **Epic Interactions** 
  - Ineffective use of orders sets and treatment plans for placing lab orders, resulting in lengthy click through and misordered labs.
  - Do not utilize smart phrases or shortcut creation
  - Do not utilize Epic's internal tracking tools to leverage "small data"
- Patient/Provider Scheduling
  - Congestion in infusion chairs and office visits at peak time of day.
  - First consults and more complex patients can cause long delays.
- Technology Use
  - Physicians are not consistent in choosing to take advantage of computer in room with patient









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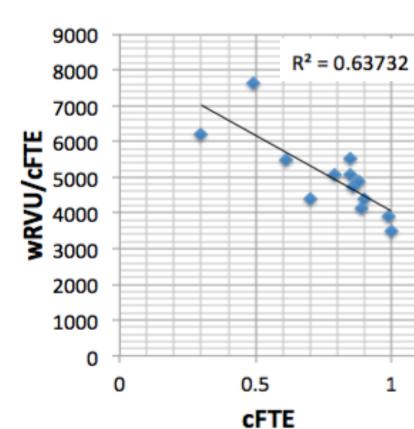
# **Current Approach**: Net Productivity (Work RVUs vs.

Reassess Productivity Benchmarks

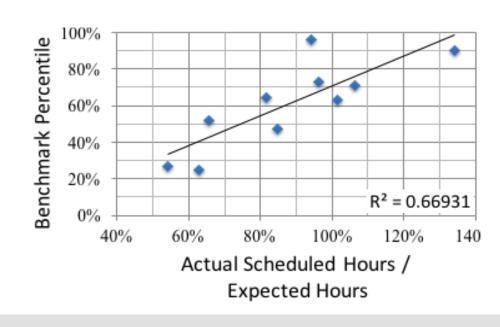
- cFTE) • **Problem 1** – Actual scheduled clinic hours do not align with cFTE
  - Problem 2 Physicians with fewer clinical hours overbook
  - **Problem 3** Physicians split time differently among locations

**Proposed Approach:** Work RVUs relative to actual hours worked

 Actual hours includes time spent with patients in clinic and time spent updating and reviewing Epic records for patients

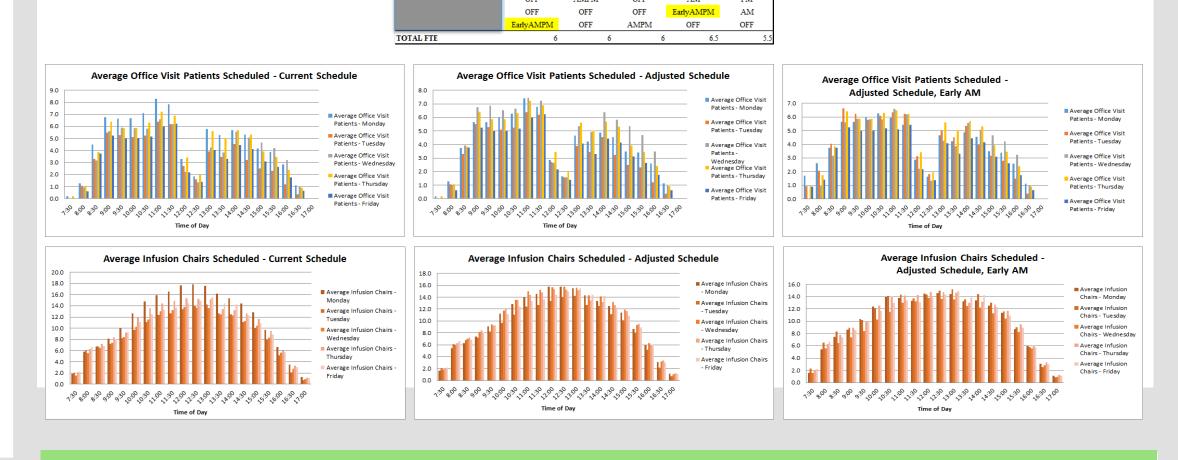


- Actual scheduled clinic hours do not align with cFTE
- 'Less efficient' providers are not being scheduled for enough hours



### Provider Scheduling

- **Problem:** Providers each have different infusion utilization levels
- Solution: Change schedule to minimize peak utilization
- One schedule change can give a 10% decrease in peak office visits and 11% decrease in peak infusion chair usage
- Additionally moving 5 morning clinics to early morning clinics can reduce peak office visits by 20% and peak infusion chair usage by 15%



### Final Recommendations

- Internally, examine the issues that are affecting the underscheduling of providers.
- Use integer programming model to begin testing scheduling recommendations immediately. First one shift per week, then add early morning clinic.

