



Strategic Priority: **SP2- KFSH&RC Experience**

Project Name

Optimizing Bed Utilization for Acute Lymphocytic Leukemia (ALL)

Site

Riyadh

Department

KACOLD L 8-B HEMATOLOGY CLINIC

Project Status

Completed

Project Start Date

01-14-2015

Project End Date

10-31-2018

Problem: Why the project was needed?

In order to provide excellent patient experience throughout the patient's journey in KFSHRC we implemented new outpatient chemotherapy protocols for Acute Lymphocyte Leukemia (ALL) patients to reduce Length of stay (LOS) and beds utilization for each patient where in the past all ALL patients were admitted to the inpatient areas for chemotherapy, and each patient is utilizing the bed up to two (2) months.

Aims: What will the project achieve?

Decrease Average Length of Stay for Acute Lymphocytic Leukemia (ALL) patients from 12 Weeks to 5 weeks (50%) by Oct 2018.

Benefits/Impact: What is the improvement outcome?

(check all that apply)

- Contained or reduced costs
- Improved productivity
- Improved work process
- Improved cycle time
- Increased customer satisfaction
- Other (please explain)
Click or tap here to enter text.

Quality Domain: Which of the domains of healthcare quality does this project support?

(Select only one)

Efficient

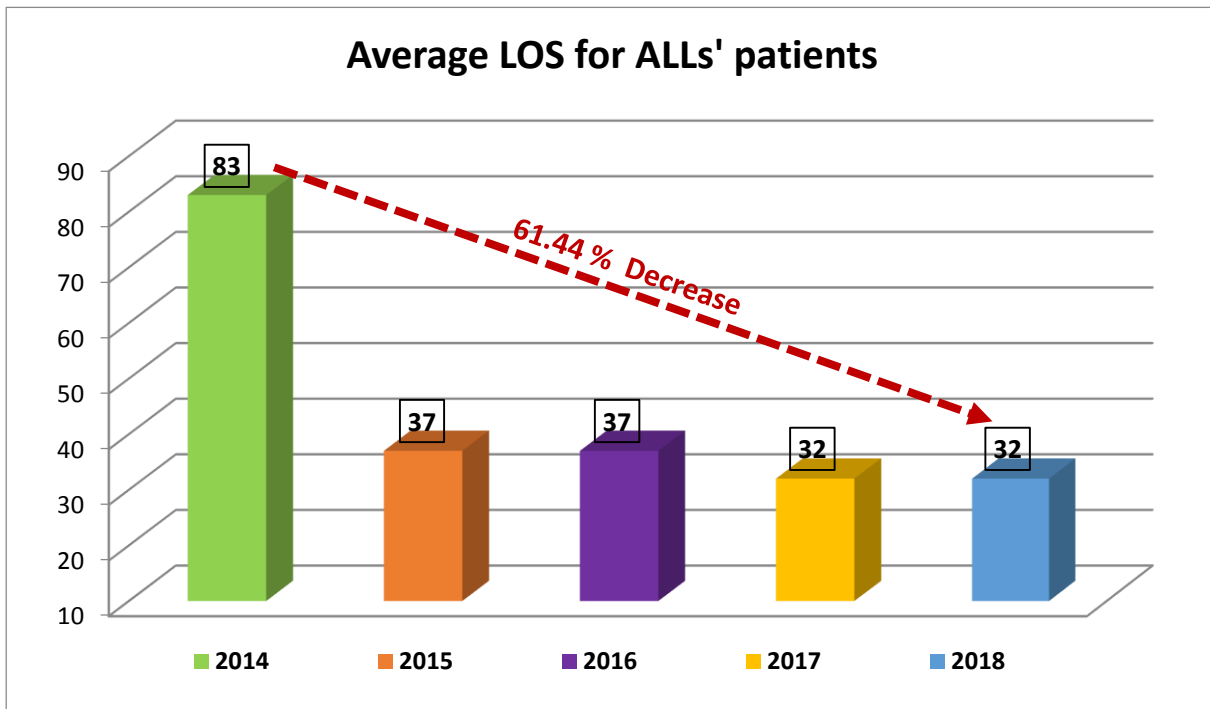
Measures: Performance metrics to be evaluated	Targets: Expected outcomes
Average LOS ALL patients	5 weeks

Interventions: Overview of key steps/work completed

- Adapted a pediatric –inspired chemotherapy protocols for acute lymphoblastic leukemia (ALL) patient ages between (14 & 39).
- Created a dedicated clinic to care for such patients in outpatient setting.
- Limited hospital admissions as per protocol to induction phase & for a limited number of patients to another admission for high dose MTX administration.
- Increased the allocated number of beds in the outpatient infusion area to accommodate our patients.
- Created a dedicated team from physicians, coordinators & nurses to manage the patient in the clinic.

Results:

A) Decrease length of stay (LOS) & Bed utilization:



- 2014, represents the average of 83 days using the 1423 protocol.
- 2015-218, the average LOS was 33 days using the AYA15 protocol.

B) Cost saving:

- The table showed that 50 days were saved in bed utilization for each patient since the start of implementing the new protocol
- On average, 15 patients with the ALL are treated in the hematology department annually. As a result, there was a significant reduction in bed utilization by 750 beds/year

Leukemia Bed cost /Day	Saved Leukemia bed cost/patient (50 days Saving)	Leukemia bed cost/Year [Annual bed saving (15x50=750 bed days)]
5786.00 SR	289,300.00 SR	4,339,500.00 SR

Note: Costs obtained from the Advisory Board Committee at KFSH&RC

Project Lead

Name

(person accountable for project)

Riad El Fakih MD
Amr Hanbali MD

Team Members

Name

(person accountable for project)

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