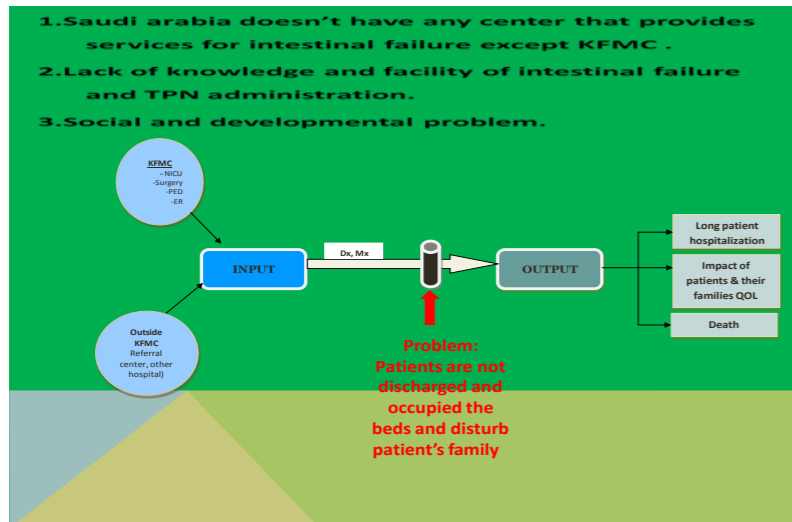


## Pediatric Intestinal Failure & Parenteral Nutrition Improvement Program— Five years



**Problem**

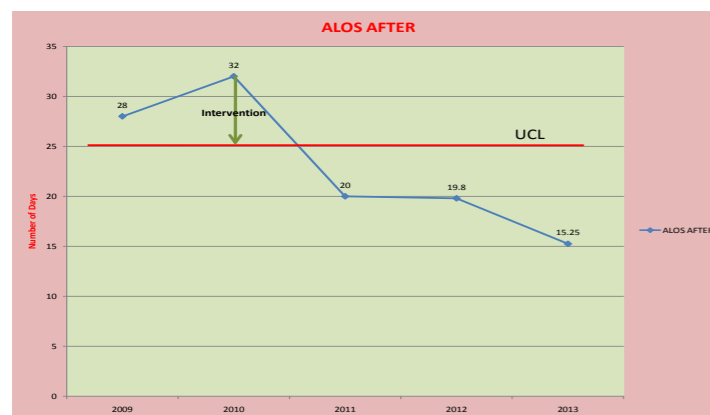
### Aim

To provide equity and quality of services for children with intestinal failure and their families in Saudi Arabia.  
 To improve and standardized intestinal failure (IF) care at KFMC .  
 To improve quality of life for both Patients and their families.  
 To improve the utilization of the beds ,decrease the cost and decrease the ALOS in GI wards.

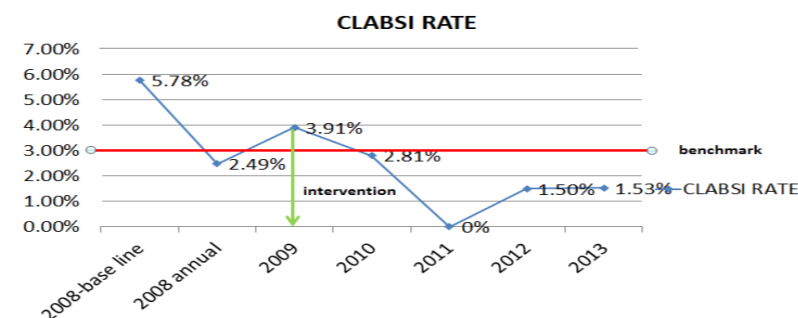
### Interventions

By applying the FOCUS-PDCA methodology, we have succeeded to achieve the necessary interventions to implement the action plan for improvement which will help us to achieve our objectives and goal. Following are the main interventions achieved:

- 1.Formalized a team for TPN and central line care.
2. Developed IPP & ensure implementation
- 3.Selected and identified the Peripheral Clinical Network (PCNW) and established our communication to convince them for collaboration.
4. Visited local hospitals for evaluation, raised awareness and arranged lectures.
5. Invited and trained the staff from the PCNW including Nurses, physician and pharmacists.
6. Trained the parents on the TPN administration, central line care and patient care.
- 7.Initiate and Established TPN Courier system through The Saudi Arabia.
- 8.Transferred patients to home/local hospitals on TPN with equipment and providing them TPN bags every week.
9. Follow up and monitoring.



### CLABSI RATE 2008-2013



**Results**

### Results:

- 1.After implementing this program, the cost for each patient is:  
 TPN Bags – 30,000 SAR per month  
 Courier – 1000 SAR per month  
 Disposable items 1000SAR per month  
 TPN tubes – 5,580 SAR per month  
 The total cost for each patient is 450960 SAR per year. The previous cost was 1.5 mill  
**We saved One million and fifty thousand SAR(105000) per patient per year.**
- 2.The ALOS decreased to 19 days(40.6%) from 32 days per year
- 3.Blood stream infection decrease to 1.5/1000 days from 5.78( I Standard 4.0)
- 4.Survival rate has exceeded 93%.
- 5.Most of the patients (63%) have been weaned off from TPN.
- 6.The quality of life of the patients and parents are improved.
- 7.Establish and maintain the first unique program in Saudi Arabia for pediatric intestinal failure care.

### Conclusion:

With the success of PIFPN program benefits observed which is unique in the Saudi Arabia ,decrease the cost ,improve the care and life quality for the patients. we recommend to continue support this program.

### Next step

- 1.Implement the program as National program in the kingdom.
- 2.Get the Saudi Medical Council approval for the training programs.