

Department of Pediatrics NICU

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“Stop Antibiotics on Time”

PROBLEM: In early onset sepsis, antibiotics are continued even after sepsis is ruled out in 70% of newborn babies admitted to NICU.

AIM: To improve the compliance of stopping antibiotics at 48 hours from 30% to 50% in suspected early onset sepsis among newborn babies admitted to NICU by end of May 2016.

INTERVENTION:

- Checklist for antibiotic review
- Limit duration of antibiotic order in Cerner to 48 hours.
- Awareness Presentation
- Information and reminder in work email of doctors
- Random Cerner Communication to place antibiotic plan
- Weekly Update in morning report
- Random Cerner Communication to review culture result and antibiotic use

TEAM:

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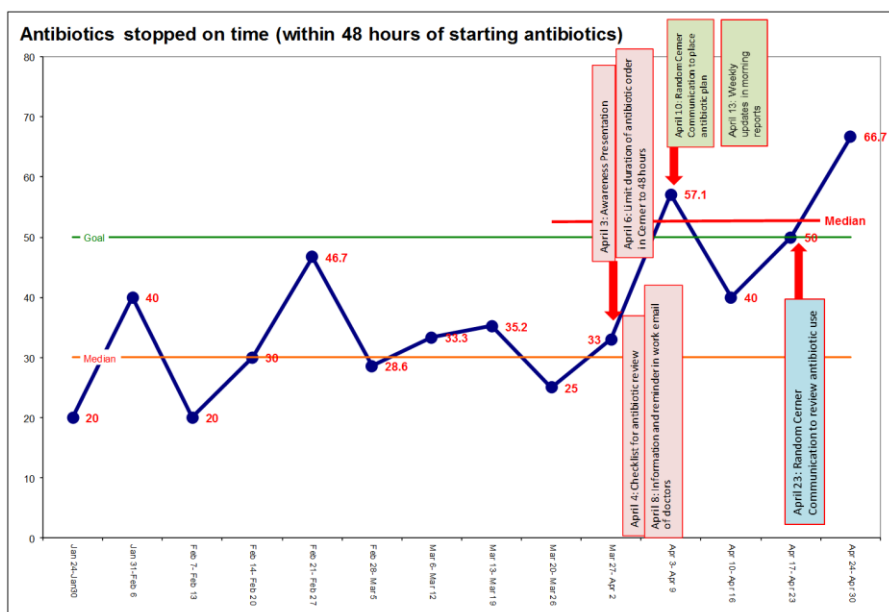
PROJECT SPONSOR:

- Dr. Mohd Janahi (Head of Pediatrics)
- Dr. Hilal Al Rifai (Director of NICU)

COACH

- Dr. Mohammad Adnan Mahmah

RESULTS:



CONCLUSIONS:

- The project was able to improve compliance to timely discontinuation of antibiotics from 30% to 53.5% in the month of intervention (April) with an upward trend.
- This was accomplished by incorporating a culture of reviewing antibiotics among physicians and putting a plan for the same.
- The reduction in the default duration of antibiotics to 48 hours also helped.
- This helped in reducing the occupancy rate in NICU and length of stay of babies despite having the same number of admissions in April.
- Also, there was significant reduction in the usage of (and expense towards) first line antibiotics i.e. Ampicillin, Penicillin G and Amikacin in the month of April.

NEXT STEPS:

- Improve the compliance to 90%.
- Implement "Stop antibiotic on time" for late onset sepsis.
- Establish antibiotic stewardship in NICU.
- Creation of Early onset sepsis guidelines.
- Continue performing audit.