Healthcare Organization Commitment

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Commitment Details

Commitment Name
Medication Errors

What Patient Safety Challenge does your Commitment address?
Challenge 3A - Medication errors

Commitment Start Date
01/01/2017

How Many Hospitals Will This Commitment Represent

Patient Safety Movement Foundation | patientsafetymovement.org
Action Plan
1. To implement the reporting system of Medication Errors and Adverse Drug Reaction continuously
2. To apply the automatic checking mechanism to monitor the physicians’ prescriptions
3. To establish a comparison system between NIH Phamacloud and the medication in CSMUH
4. To improve pediatrics’ medication safety
5. To enhance the control of using antibiotics

Commitment Timeline
1. Reporting system provides real-time information of medication errors and adverse drug reaction. After following up and accessing, we can design preventive measures to improve relating operation procedures and fix the faults of the equipment, and avoid the re-occurrence due to negligence.
2. The automatic checking mechanism had been designed in our Health information system to monitor the physicians’ prescriptions, and to explore the medication errors and Adverse Drug Reactions. By implementing the automatic checking mechanism of Health information system in CSMUH, the error rate of physicians’ prescriptions was decreased from 0.046% in 2016 to 0.07% in 2017.
3. In order to improve patients’ medication safety, we will compare the patients’ medication history from NIH Phamacloud with the medication in CSHMUH by using ATC7 code system, to identify if there are duplicate Medications or drug interaction events. The comparison system is expected before the end of 2017.
4. We will improve pediatrics’ medication safety, by reviewing the adverse reaction events in children and providing adequate trainings.
5. The monitor system of antibiotics usage and antibiotic resistance surveillance system are under construction in CSMUH. The systems are expected before the end of year 2017.

Impact Details

Lives Lost in Last Calendar Year
449

How many lives do you expect to spare from harm in the next calendar year?
244

How many lives do you expect to save in the next calendar year?
10

Methodology for Determining Lives Saved
The calculation for lives spared from harm is as follows: 700*9.2%= 64 700: The number of cases of annual medical error at Chung Shan Medical University Hospital. 9.2%: The rate of harm caused by medical error from Taiwan Patient Safety Reporting System Reporting System: 453*39.88%=180 453: The number of cases of the adverse drug reactions reporting during the last calendar year at Chung Shan Medical University Hospital 39.88%: The rate of harm or death caused by adverse drug reactions from Taiwan National Adverse Drug
The calculation for lives saved in the next calendar year is as follows: 453*2.23%=10
453: cases of the adverse drug reactions reporting during the last calendar year at Chung Shan Medical University Hospital 2.23%: the mortality rate from Taiwan National Adverse Drug Reactions Reporting System