



TIME MOTION STUDY ON INPATIENT DRUG INDENT



By Devina Khandelwal

INTRODUCTION

The main function of the pharmacy department in the hospital is to make right drug available at the right time. Hospitalized patient may experience delays in care due to delays in medication administration.

Medication process: The process starting from the nurse indenting or placing order for medicines in system (HMIS) till ward boy supplying the medicines in the respective wards. Moreover, it can be broken down into four phases:



OBJECTIVES

To study the time taken by the pharmacy to supply drugs to the wards.

Sub objective:

- To study the flow of drug indent process
- To find peak hour of drug indent order
- To calculate total no. of indents in a day

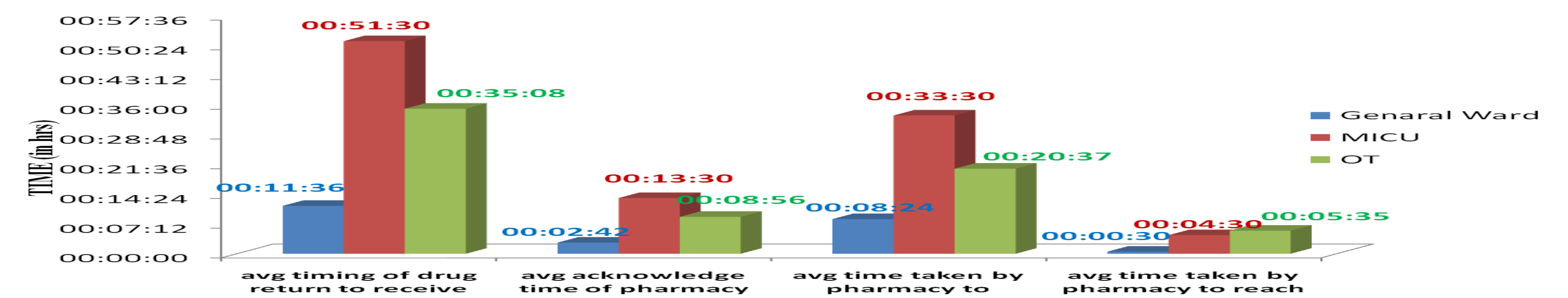
METHODOLOGY

The study is a time motion study which was conducted for 45 days during time shift of 9:30 am to 5:30 pm in Manipal Hospital, Jaipur. The study is basically exploratory in nature. The information is collected from various source like case sheets, ward indenting system, pharmacy department, and nurse stations. Direct observation method of data collection has been used. The observational data has been collected from general ward, MICU, Operation theatre and Pharmacy. The data has been obtained through simple random probability sampling. The sample size includes 90 patient, 30 from each ward.

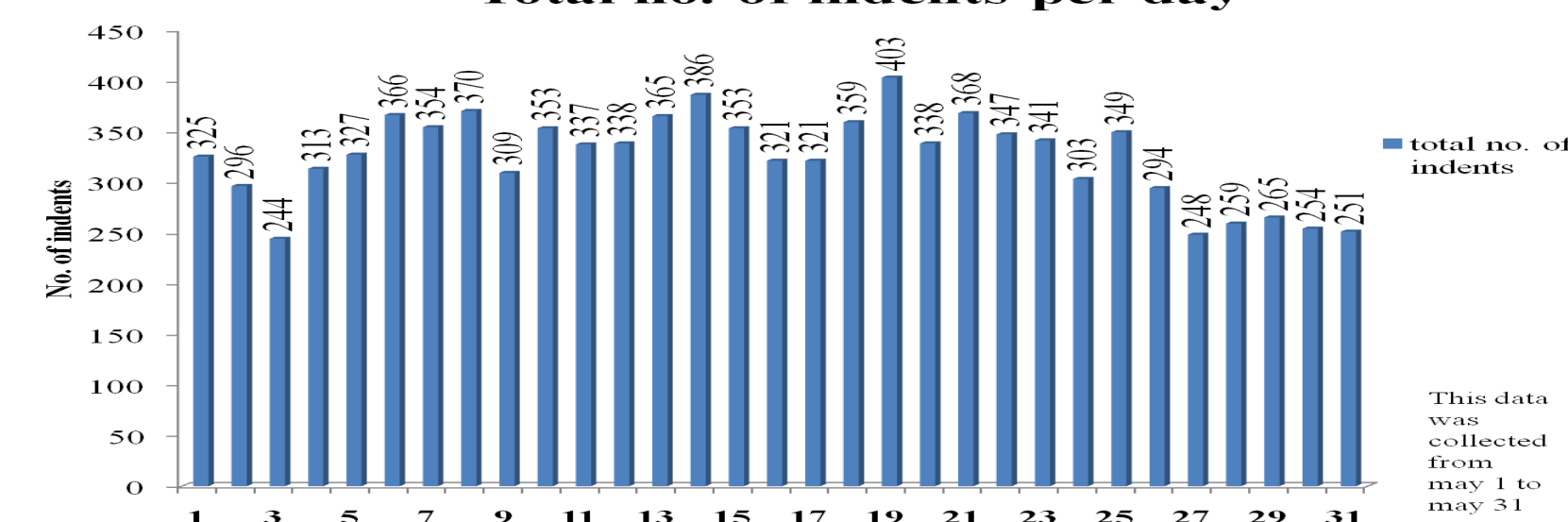
FINDINGS



Comparison of the three wards for return drugs

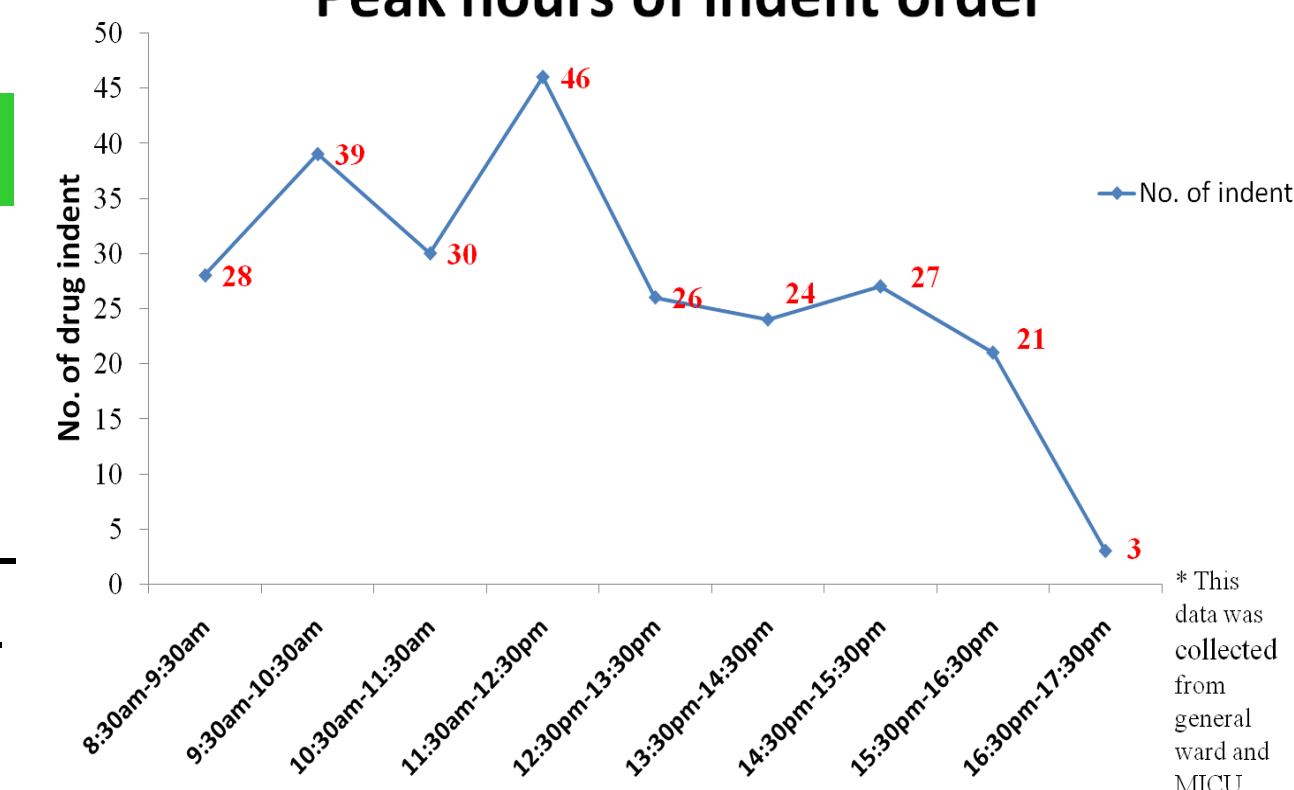


Total no. of indents per day

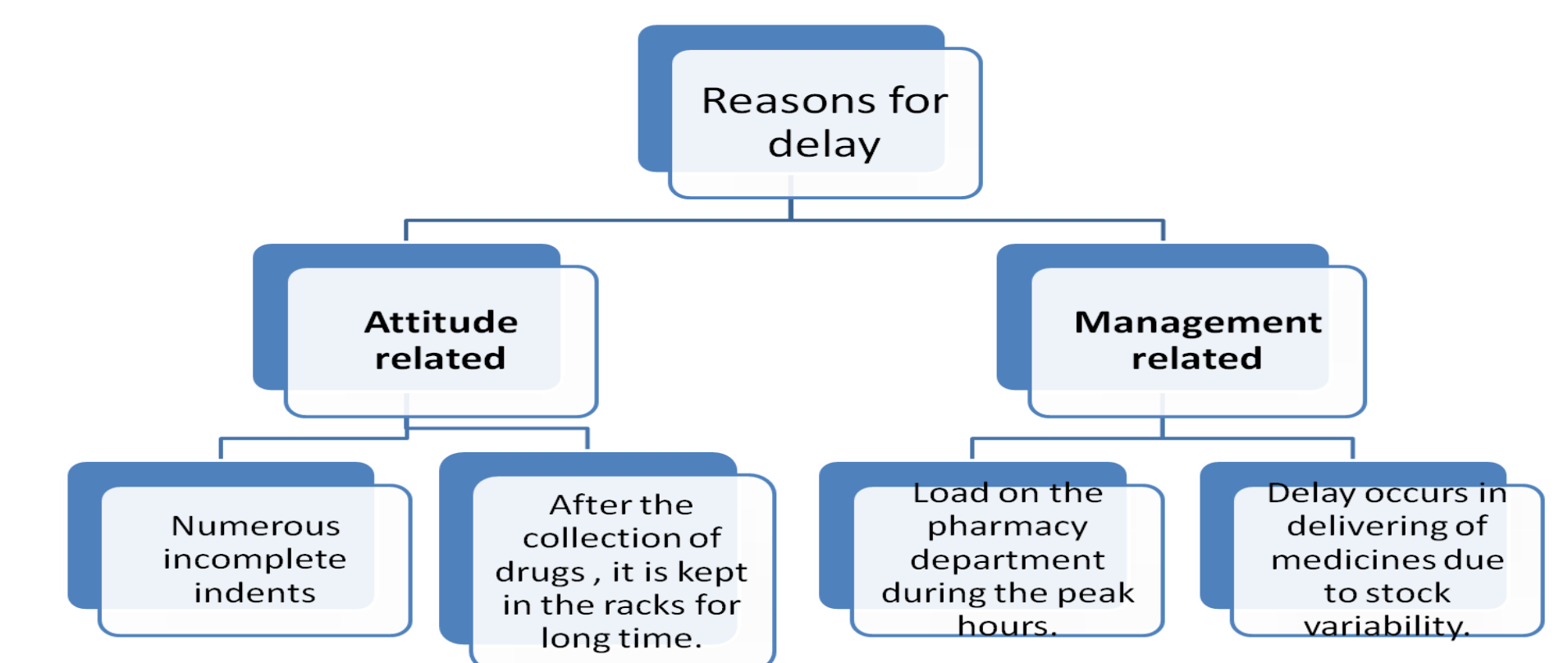


- The data was collected from May 1 2015 to May 31 2015
- Average no. of indents in a day-325
- Average no. of patients in a day-96
- Average no. of indents per patient in a day-3

Peak hours of indent order



* This data was collected from general ward and MICU



RECOMMENDATIONS

Attitude related:

- The nurse ordering the drugs for patient should indent the complete order (bulk order) at once, instead of indenting numerous incomplete orders.
- Training of the pharmacy staff to improve the TAT of drug indent.

Management related:

- In case of new admissions indents, urgent indents the system should show the status and should be highlighted. For normal daily indent, timing can be fixed for indenting.
- Track the drug-when the nurse generates the drug indent, the system will generate the location of the drugs and attach it to the drug indent, so when the pharmacy acknowledges the drug indent, it knows the location of the drugs.
- Inbuilt pharmacy in OT.