

# **Study on the Incidence of CAUTI and Efficacy of Hand Hygiene Practices to reduce Catheter Associated Urinary Tract Infection at Fortis Escorts Hospital Jaipur**

**A Dissertation Proposal for**

**Post Graduate Diploma in Health and Hospital Management**

**By**

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PG09/035**

**Under the guidance of**

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**International Institute of Health Management Research  
New Delhi  
April 2011**

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## **Certificate of Approval**

The following dissertation titled "**Study on the Incidence of CAUTI and Efficacy of Hand Hygiene Practices to reduce Catheter Associated Urinary Tract Infection at Fortis Escorts Hospital Jaipur.**" is hereby approved as a certified study in management carried out and presented in a manner satisfactory to warrant its acceptance as a prerequisite for the award of Post- Graduate Diploma in Health and Hospital Management for which it has been submitted. It is understood that by this approval the undersigned do not necessarily endorse or approve any statement made, opinion expressed or conclusion drawn therein but approve the dissertation only for the purpose it is submitted. Dissertation Examination Committee for evaluation of dissertation

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Signature

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## **Certificate from Dissertation Advisory Committee**

This is to certify that **Dr, Rachna Nama**, a participant of the **Post- Graduate Diploma in Health and Hospital Management**, has worked under our guidance and supervision. She is submitting this dissertation titled " Study on the Incidence of CAUTI and Efficacy of Hand Hygiene Practices to reduce Catheter Associated Urinary Tract Infection at Fortis Escorts Hospital, Jaipur. " in partial fulfillment of the requirements for the award of the **Post- Graduate Diploma in Health and Hospital Management**. This dissertation has the requisite standard and to the best of our knowledge no part of it has been reproduced from any other dissertation, monograph, report or book.

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## **ACKNOWLEDGEMENT**

I feel privileged to thank all the contributors of the study.

I hereby express my gratitude towards my mentor **Dr. Shrikant Swami** (Medical Superintendent, Fortis Escorts Hospital Jaipur) for assigning the study.

I express my thanks to **Dr. Smita Sood** (Microbiologist, Fortis Escorts Hospital Jaipur ) for her significant instructions and supportive guidance.

I thank Ms. **Nihar Bhatia** (Head Quality Assurance and FOS) who encouraged and provided the directions throughout the tenure.

I would like to express my gratitude to the entire Infection Control and Quality Assurance Team (Dr. Megha Trivedi, Ms. Kirti. Hemkar, Ms. Divya Kumawat, Maj. Ranjana Williams ( Chief of Nursing, Fortis Escorts Hospital Jaipur ), Ms. Priyanka and Ms. Bency Babu ) who all were of great assistance.

I express my thanks to Mr. Subrata Das (Head Human Resources, Fortis Escorts Hospital Jaipur) and Ms. Nisha C D Kurup (Head, Training, Fortis Escorts Hospital Jaipur) for giving the opportunity to learn at Fortis Escorts Hospital Jaipur.

I express thanks to Dr. Pawan Kumar Taneja (Assistant Professor, IIHMR Delhi) to supervise and provide valuable comments for the report presented.

A note of gratitude to all the medical and administrative staff members of Fortis Escorts Hospital Jaipur.

Dr Rachna Nama

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## **Abstract**

### **Study on the Incidence of CAUTI and Efficacy of Hand Hygiene Practices to reduce Catheter Associated Urinary Tract Infection at Fortis Escorts Hospital Jaipur**

By

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#### **INTRODUCTION:**

Hospital-acquired infections (HAI) are a significant cause of morbidity and mortality. Urinary Tract Infections (UTI) comprises of 30% of all HAI's. Catheter Related Urinary Tract Infections account to be the maximum among the UTI'S. The aim of the study was to investigate the incidence of CRUTI among all inpatients admitted in the Neuro General Ward and the Surgical ICU at the Fortis Escorts Hospital Jaipur. The second part of the study was to evaluate the impact of the Hand Hygiene Practices during a period of three months.

**METHODOLOGY:** The study involved two departments and was designed as a study based on reviews of medical records related to the catheter associated urinary tract infection. HAI was defined according to the criteria established by the Center for Disease Control and Prevention. (CDC guidelines).

**RESULTS:** The number of incidences of CRUTI were 28 (in year 2009) and 22 (in year 2010). Rate of CRUTI markedly reduced during the last two years. And shows a smooth rate within the set benchmark. A significant increasing trend in the Hand Hygiene Compliance was also observed in the story board. Wherein average Hand Hygiene Compliance / month as obtained during 2009, 2010 and 2011 was 41.83%, 65.79% and 79.54% respectively.

**CONCLUSION:** The number of Incidences of CRUTI was reduced to 0 (in year 2011 due to the efficient implementation of Hand Hygiene Practices in the year 2011.

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