



ILHAN R RESOURCES

SDN BHD

TECHNOLOGY ENTREPRENEURSHIP (ENT600)

NEW PRODUCT DEVELOPMENT

FACULTY & PROGRAMME : HS240 (BACHELOR OF NURSING)

GROUP : NHSNF8

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1. EXECUTIVE SUMMARY

Ilhan Resources Sdn Bhd is a company in manufacturing industry. This product is focusing in producing the Smart Medication Vest with technology based consists of sensors that are able to detect sounds and touch .The factory is located in Kuala Lumpur and our target marketing will be based at both government and private hospitals in Kuala Lumpur area. The product is made of 100% polyester and provided in pink, red, orange, and purple bright colors to easily catch everybody's eyes. The price of this Medication Safety Vest is very reasonable and value for money. The management team of our company consists of experienced and knowledgeable employees to guarantee a high quality products produced.

2. INTRODUCTION

This smart medication vest is a bright colour vest that equipped with the few new features that assist the nurse in medication administration. The aim of this innovation is to reduce the event of medications errors in hospitals or any health facilities and ensures the use of 10 rights of serving medications. The 10 Rights of Serving Medications involves of right name, right route, right time, right dosage, right drugs, right to refuse, right documentation, right to explain, right assessment and right evaluation.

Problem statement

This product was created due to increasing incident of medication error in the ward that may cause bad implications to the patient. The process of medication administration is a process that shouldn't be interrupted in order to prevent any error. There are many complaints from the nurses that they have been interrupted during this process. In addition, time constrain in the ward schedule that cause most of the nurses skip the principle 10 Rs. The principle should be comply in order to prevent any medication error. The 10 Rs are right patient, right medication, right dosage, right route, right time, right education, right assessment, right evaluation, right to refuse and right medication.

Methodology

The methodology that have been used in this project is comparison with the current medication vest that have been used in most of the general hospital. The paper and verbal survey among the nurses at the general hospital also one of the methodology that has been used. The work experience of all team members as nurse is the basic methodology in this project. Furthermore, statistics of medication errors among the nurses have been our guideline for this project.

Limitations

Despite all the advanced features in this smart medication vest, it has few limitations that cannot be avoidable. Not all the hospitals cant implemented this product due to this product need a very good Internet coverage because this product is linked with the specific application. Besides that, this product only can be used to the nurses and not other health co worker in view of the medication administering is one of the nurse's role. In addition, the feature of sound detector that using the battery has the limitation need to be charged when weak or no battery.

3. NEW PRODUCT DEVELOPMENT

3.1 Definition

This company business is focusing in producing the Smart Medication Vest with the sound and touch sensor technology that reducing interruptions during medication administration due to the increasing incident of medication error in the ward and the nurses kept been interrupted during medication error that will lead to patient harm.

3.2 Classification of NPD

This product are improvements and revision to existing products. Besides, in Malaysia all our competitor still sell medication vest which does not have any technology on it. So, to make an innovation for our product, we put some technology on it so that sound and touch sensor can detect directly to reducing medication errors.

3.3 New Product Development Process

3.3.1 Research & Development

Idea generation was created because our the team want to lessen the incident medication error and for the sake of the patient our team come with the 2 version of ideas:

- version 1 - equipped with sound and touch detector
- version 2 – equipped with sound detector : make sound if error occurs