



اُونِيُوَرَسِيْتِي تِي كُونُولُو كِي مَارَا
UNIVERSITI
TEKNOLOGI
MARA

SHARPSAFER BIN
TECHNOLOGY ENTREPRENEURSHIP
ENT 600
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COMPANY'S LOGO



CHAPTER 1

1.0 PRODUCT DESCRIPTION

1.1 Introduction

The innovation is a **SharpSafer Bin**. The team was decided to design a sharp bin attach with digital weigh scale. This sharp bin very convenience for busiest ward at the hospital because they will alert when this sharp bin reach their limit, alarm will trigger to inform them that they must change and discard the sharp bin. Nowadays cases of needle stick injury were increase among health care worker staff. This is due to poor management of handling of sharp bin among the staff. Hospital also must provide high quality of sharp bin to make sure it is safe to support the sharp material.

1.2 Purpose of development

1. To reduce rate of needle stick injury among health care worker.
2. To make sure the cover of sharp bin can close smoothly without any resistant due to the sharp material is overload.
3. Used to contain hazardous "piercing" instruments and reduce the chance of spreading infection.
4. Needles are dropped into the container without touching the outside of the container to prevent injury.
5. Reduced cost of treatment of antibiotic use for infected health care worker due to infection of needle stick injury

1.3 Product concept

SharpSafer Bin intends to replace the current sharp bin with the sharp bin that can trigger alarm to alert health care worker that the sharp bin was due to discard. This is step forward by replacing the current retrospective standard with actionable real-time information.

For the very first time, our innovative adherence solution and support services allow health care worker to fully understand and manage their adherence challenges, leading to better clinical outcomes and reduced costs usage of antibiotic to treat infection due to needle prick injury.

1.4 Application

1.4.1 Functions

The electronic sharp bin tracks the opening and closing of the cover itself and how much sharp in container. During the sharp bin 3/4 full, the sharp bin's small light indicators turn red and beep to remind the health worker to discard the sharp bin.

1.5 Unique features

The uniqueness of the product for availability in Malaysia market consists of:

- The cover of the sharp bin auto closed when sharp $\frac{3}{4}$ full.
- Small light indicators turn red and beep to remind the health worker to discard the sharp bin.