

# **A CROSS SECTIONAL STUDY OF GENERAL SURGICAL PROCEDURES THROUGH THE GLOBAL SURGERY INITIATIVE IN HOSPITAL BENTONG,PAHANG.**

Theeban.S<sup>1</sup> Sarmukh.S<sup>2</sup>

<sup>1</sup>*Director,Hospital Bentong,Bentong,Pahang , Malaysia.*

<sup>2</sup>*General Surgery Department,Hospital Bentong,Bentong,Pahang ,Malaysia.*

## **Aims**

Hospital Bentong, a minor specialist hospital in Pahang implemented the Global surgery program since Jun 2020 with aims to increase accessibility to minor surgical procedures in Bentong , decongest the tertiary referral center, and optimize usage of its modular operation theater .The research objective is to determine the prevalence of surgical procedures performed in the hospital and to determine the prevalence of surgical referrals to tertiary hospitals.

## **Methodology**

This retrospective cross-sectional study was conducted from January 2018-December 2022 using convenience sampling method. Data was collected from the surgical census and casemix. The data were categorized into endoscopic procedures(EP) and minor surgical procedures(SP). All surgical inpatients and outpatients at Hospital Bentong were included in the study except pediatric cases.

## **Results**

The total number of procedures performed at Hospital Bentong by General surgeon from 2018-2022 was 640. There were 35(100%) SP in 2018, with no EP, 42 in 2019, whereby 23% and 77% were EP and SP respectively. Meanwhile, in 2020 there were 59 procedures that included 52% SP and 48% EP. Procedures conducted increased markedly in 2021 with 126(61% EP , 38% SP) and it doubled in 2022 with 378 procedures(55% EP, 45% SP). The number of surgical referrals to the tertiary center for 2018 till 2022 is 527 procedures. There were 112 cases in 2018[21%], 75 cases in 2019[14%], 77 cases in 2020[22%] and increased to 135 cases in 2021[25%] and 128 cases in 2022[24%].

## **Conclusion**

The surgical procedures conducted has increased and the hospital achieved 2 out of 3 global surgery objectives. The trend of referral to tertiary hospitals increased yearly. This could be due to early detection and identification of disease, but limited the treatment capabilities due to lack of facility, equipment, and human resources.