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Impact of Early detection & Management of colorectal cancer to improve patient outcomes & reducing the healthcare cost in AL-HADA Armed Forces Hospital - TAIF – KSA

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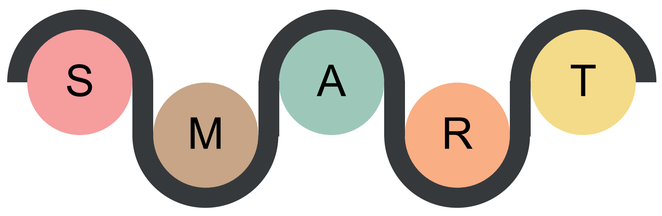
INTRODUCTION

World Health Organization reported colorectal cancer is the third most common cancer worldwide, accounting for approximately %10 of all cancer cases and is the second leading cause of cancer-related deaths worldwide. In 2020, more than 1.9 million new cases of colorectal cancer and more than 930000 deaths due to colorectal cancer were estimated to have occurred worldwide.

Additionally, given the predominance of colorectal cancer compared with other cancers in Saudi Arabia, Colorectal cancer is the most common cancer among Saudi men and the third commonest among Saudi women also is a significant public health concern worldwide. Early detection through effective screening tools plays a vital role in reducing mortality rated and improving our patients outcome.

Many people will not have symptoms in the early stages of the disease, and colorectal cancer is often diagnosed at advanced stages when treatment options are limited.

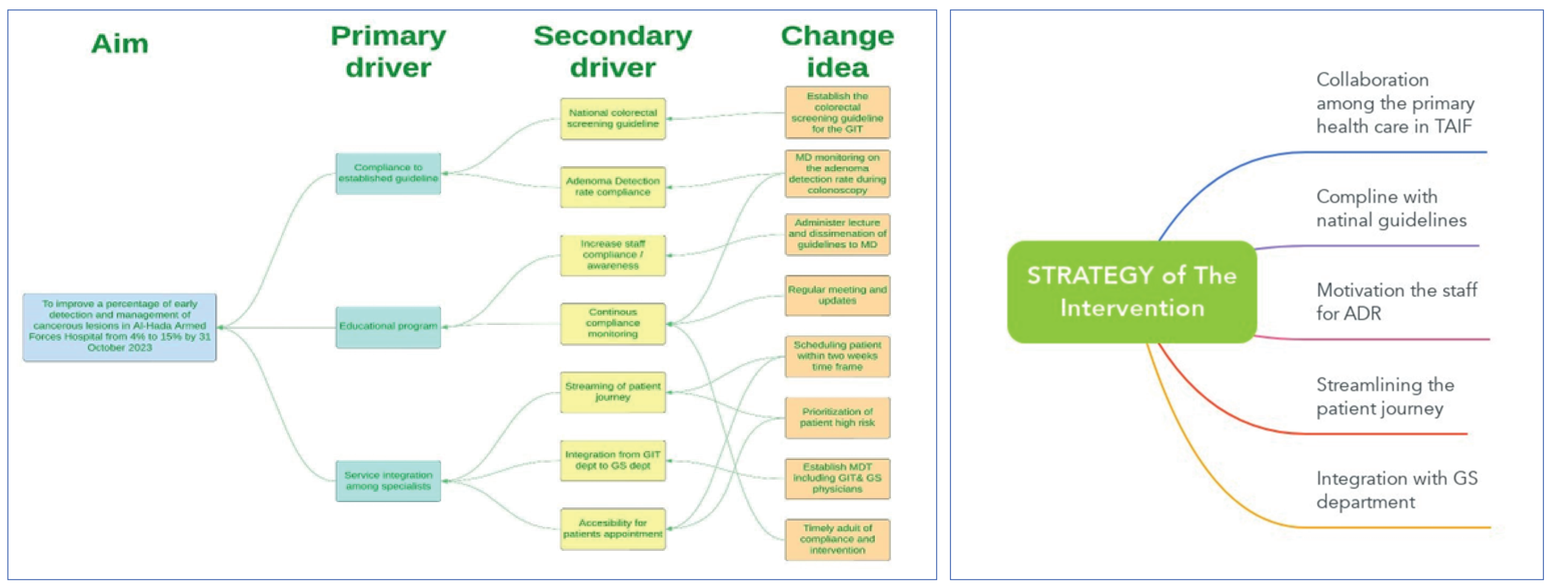
AIM



To improve a percentage of early detection and management of colorectal cancer in ALHADA Armed Forces Hospital from %4 to 15 % especially for individual aged between 45 - 75 years old by 31 October 2023.

METHOD

The methodology is the Plan-Do-Check-Act cycle with best evidence-based practices specifically applied to enhance and streamline the repetitive workflow involved in the early detection and management of colorectal cancer in AL-HADA Armed Forces Hospital by focusing on Collaboration among the primary health care in community to enhancing patient awareness and facilitating access to Increase screening cases, enhanced the compliance of our Gastroenterology healthcare providers with the national guidelines for colorectal cancer screening in Saudi Arabia with strength of recommendation and quality of evidence. Additionally, streamlining the patient journey in the endoscopy department, ensuring early appointments within two weeks and improving patient prioritization and integration immediately with the general surgery department to management precancerous stage. This was done parallel to motivation our GIT consultant to compline with international measurement of Adenoma Detection Rate (ADR) aiming to improve the overall accessibility, and comprehensive care for early detection and management of pre-cancerous lesions.

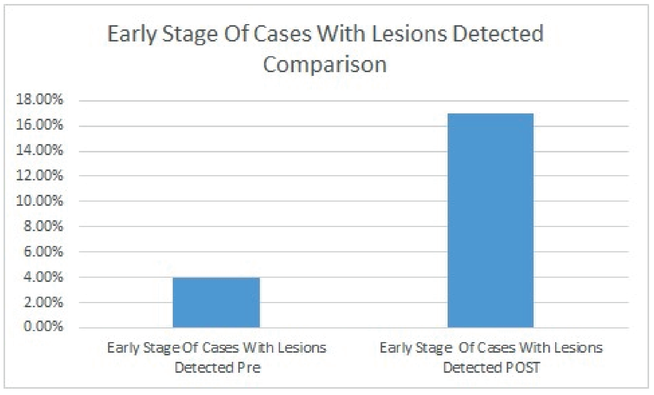


Driver Diagram of improve a percentage of early detection and management of pre-cancerous lesions

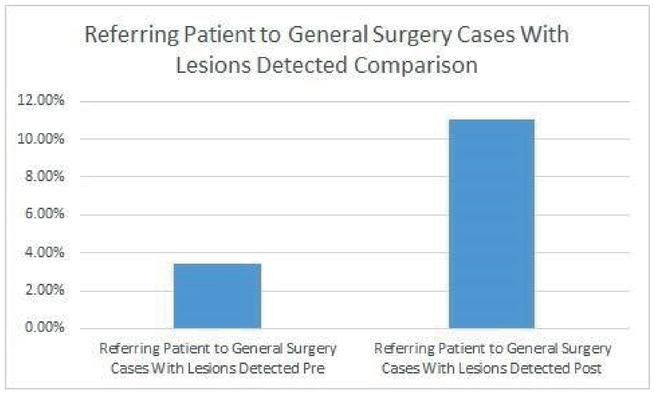
RESULTS

Measurement before the intervention on November 2021 showed for cases early detection pre cancer lesion %4 and for cases that management by surgery in precancerous stage is %3 within the last 12 months.

The results of the Interventions were as follows: there was the achievement of the expected target of %15 within 12 months of the intervention and increase to %17 done until October 2023 for early detection cases, with full implementation onward, the overall management of colorectal cancer by surgery improved to %11.



Percentage of cases referring to general surgery department (Outcome Measure)



Finally, Financial implication was crucial in evaluation the success of our intervention with highly cost saving about SR 741,298.38 till the end of October 2023.

YEAR	NO. of precancerous case	ESTIMATED COST	Total project Cost saving
2022- Before project	2	SR 92,334.12	SR741,798.69 Annually
2023 – After project	18	SR 833,132.18	

CONCLUSIONS

Improving the early detection and management of colorectal cancer has markedly improved the overall of the positive case that were detection in early stage and management with general surgery that impact on reduce cost in health care system and patient outcome.

Early detection and Management of colorectal cancer saving about SR 741,798.69 Annually

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