

Reduce Risk of Colon Cancer! Improving Adenoma Detection Rate to 50%

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Problem Statement

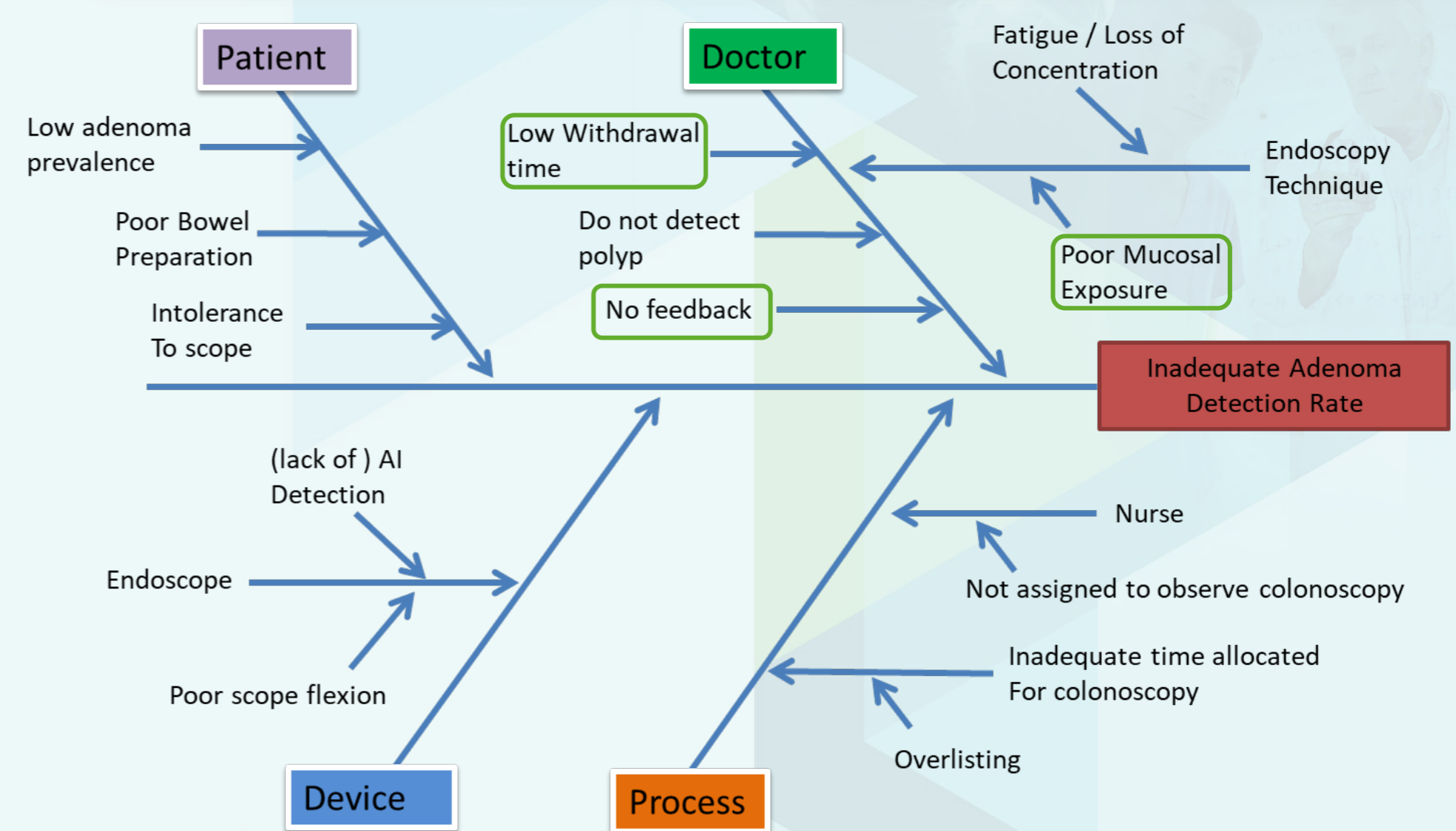
Adenoma detection rate (ADR) is defined as the proportion of screening colonoscopy in which adenoma is detected.

Each percent increase in ADR is associated with 3% reduction in risk of developing colon cancer.

The American Society of Gastrointestinal Endoscopy (ASGE) recommended minimum ADR of 25% and **aspirational ADR target of 50%**.

However, **we did not even monitor our ADR!**

Potential Solutions



We implemented evidence-based interventions:

- Focused **educational interventions** to encourage:
 - Lengthening withdrawal time to 9 min
 - Second look in ascending colon
 - Distal attachment
- Physician report cards / regular monitoring and **reporting of individual ADR**

Project Aim

We aim to improve ADR in elective colonoscopy done for patients aged 50 years and above by Department of Gastroenterology to 50% within 1 year.

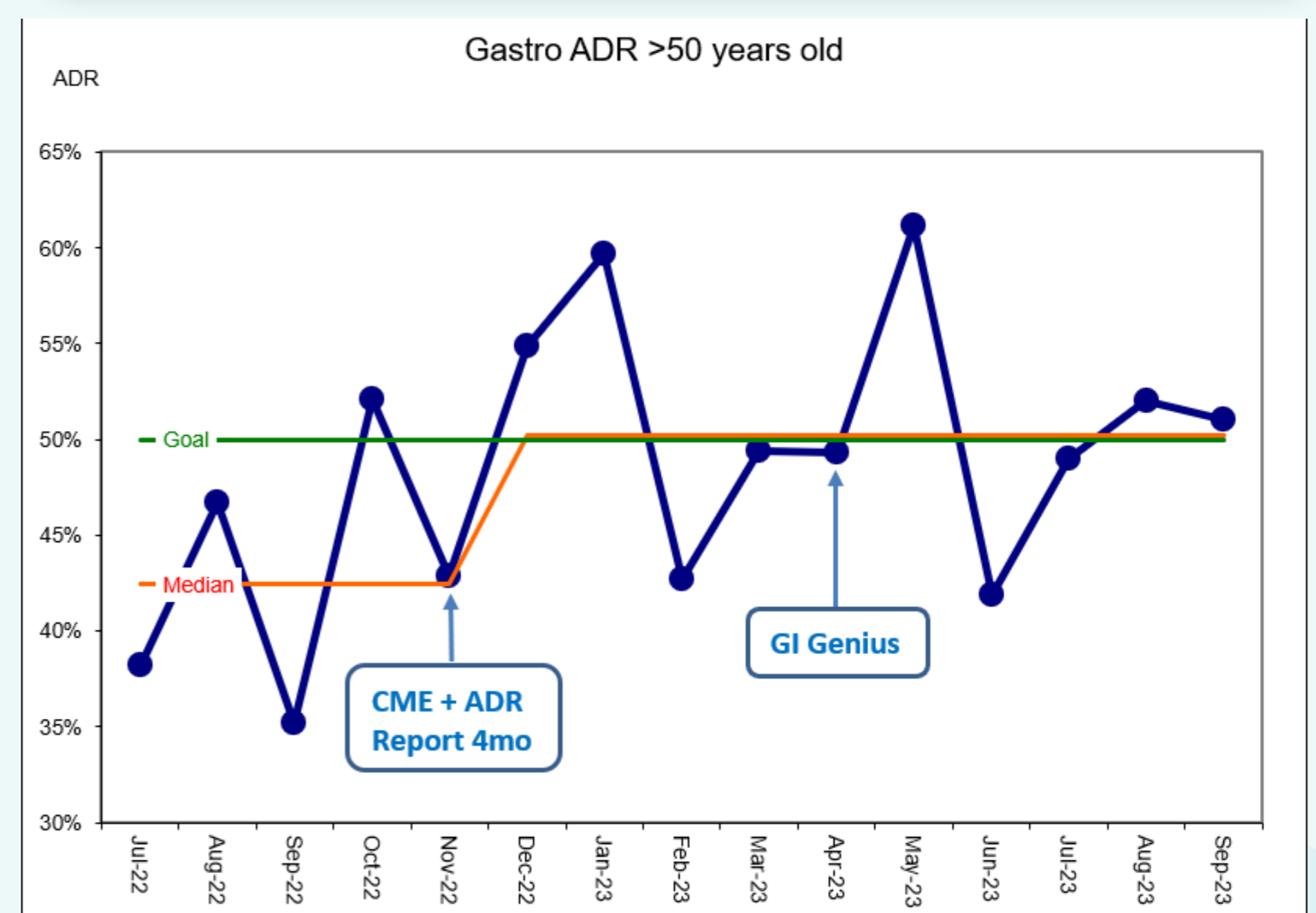
Lessons Learnt

We had to explore different ways to obtain the data needed to calculate ADR. We started by separately obtaining endoscopy data and histopathology data and correlate them.

We later learned that the Department of Management Informatics have access to both data and offer a streamlined way to monitor ADR.

We learned that working with colleagues from other departments offers fresh perspectives to improve

Outcomes & Impacts



Since our QI implementation, there was an **increase in median ADR50 from 42% to 50%**. From April 2023, GI Genius (AI) became widely available, but did not affect ADR. We plan to automate ADR reporting process in the future.