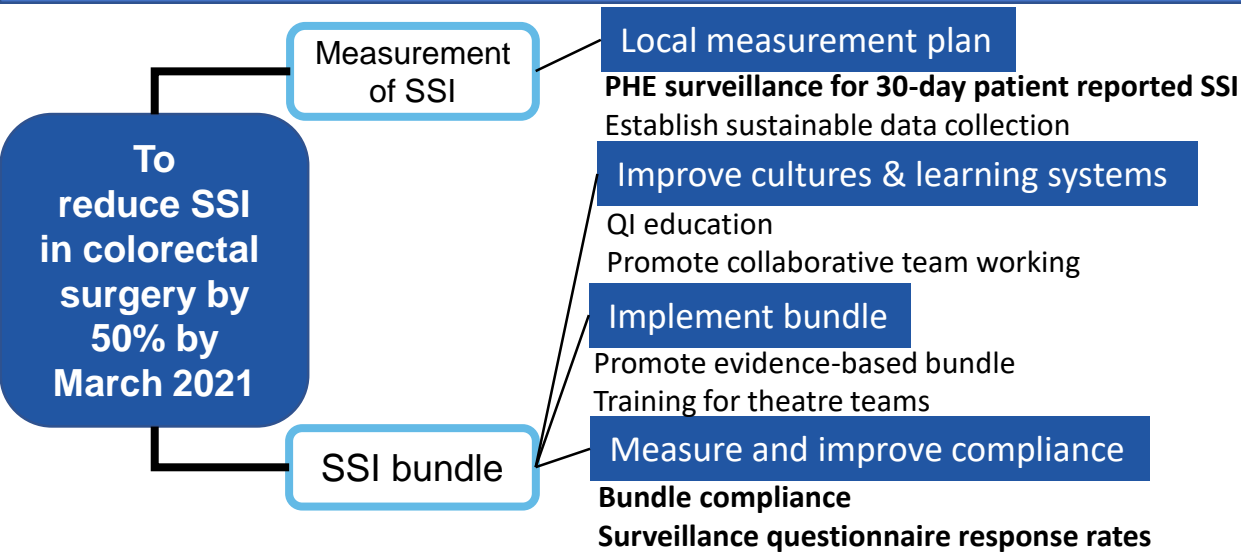


Introduction

The PreciSSion collaborative (Preventing Surgical Site Infection across a region) is a collaboration between 7 NHS hospitals in the West of England with the aim of reducing SSI after elective colorectal surgery.

Aim & Objectives



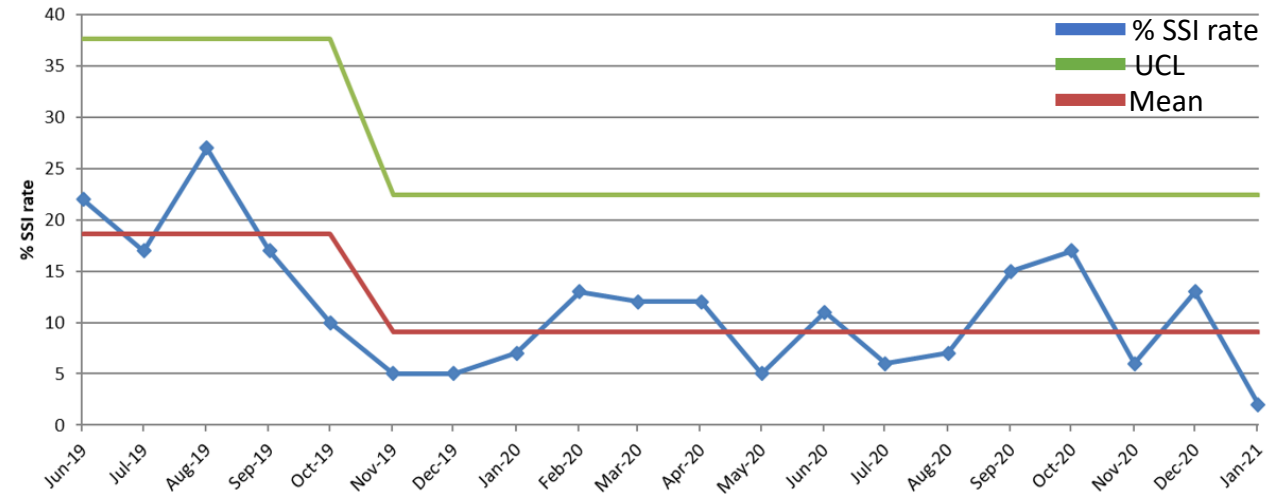
Methods

The Institute for Healthcare Improvement's (IHI) Breakthrough Series collaborative model was used. Quarterly learning and sharing events with QI coaching were used to implement a mutually agreed, evidence based wound care bundle in elective colorectal surgery across the 7 hospitals. Our PreciSSion bundle:



Results

West of England SSI rate for colorectal surgery June 2019 - January 2021 following implementation of 'Precision' bundle (all 7 trusts)



18.8% → **9.65%**
a 49% reduction!

Average SSI rate was reduced from **18%** (n=1,411) to **9.5%** (n=1,013), which is a 47% reduction in 30-day SSI after elective colorectal surgery across the whole region!

Patient response rate was over **80%**.

Compliance to each of the bundle elements was high from **72%** to **92%**. A correlation between increasing bundle compliance and decreasing SSI rate was shown.

Conclusions

We have demonstrated that using a collaborative approach to quality improvement can be effective in improving patient outcomes on a regional scale. By reducing SSI we have decreased patient morbidity and reduced cost. The bundle is easily adaptable to other surgical procedures as shown by 3 hospitals implementing the bundle after emergency abdominal surgery.