Adapting an Emergency General Surgery Service in Response to the COVID-19 Pandemic

<u>Patrick Hickland</u>, Joshua M Clements, Liam J Convie, Damian McKay, Kevin McElvanna Craigavon Area Hospital, Southern Health and Social Care Trust, Northern Ireland



Introduction

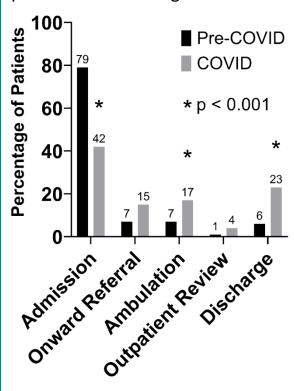
In response to the COVID-19 pandemic, our emergency general surgery (EGS) service was reconfigured, including establishing an enhanced ambulatory service, and undertaking non-operative management of selected conditions. This study compares the activity of our service before and after these changes.

Methods

Patients referred to our EGS service by the emergency department were prospectively identified over a four week period beginning from the date of reconfiguration, (COVID; 29th March – 25th April 2020) and compared to patients retrospectively identified from the same period the previous year (Pre-COVID; 31st March – 27th April 2019), and followed up for 30 days. Data was extracted from handover documents and electronic care records.

Results – Primary Outcome

There were 281 and 283 patients referred during the Pre-COVID and COVID periods respectively. The below figure demonstrates the resulting changes to how our patients were managed.



Results – Secondary Outcomes

Outcome	Pre- COVID	COVID
Duration of Admission, days	6.9	4.8
Operative/Endoscopic Interventions, no.	78	40
Ambulatory Investigations, no.	11	39
Telephone Review, no.	0	39
Early CT Pre-Discharge, %	5.0	34.7
30 Day (Re)Admission, %	6.5	5.8
30 Day Mortality, %	3.0	2.7

Conclusions

Adaptations made to our EGS service in response to COVID-19 led to increased use of ambulatory services, including imaging and telephone review. In this time there was a 62.7% decrease in use of inpatient bed days (1519 to 567), whilst maintaining patient safety. We have established safe standards that we advocate can be carried forward into the Post-COVID era.