

# Audit of Kingston Hospital's Outpatient Parenteral Antibiotic Therapy (OPAT) Service (16<sup>th</sup> April 2020 to 30<sup>th</sup> September 2021)

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## Background

The Kingston Hospital OPAT Service was set up in April 2020 with the aim of facilitating the safe discharge of stable patients requiring IV antibiotic therapy in the community. Despite its clear benefits, OPAT can be associated with increased clinical risk because medical and nursing supervision is limited compared to inpatient care. Hence, the service is audited regularly to ensure safe delivery of the OPAT service is maintained.

## Aims of this Audit

1. To assess the compliance of Kingston Hospital OPAT Service with the latest good practice recommendations for OPAT in adults in the UK.
2. To ensure high-quality care and minimize clinical risk for patients on the OPAT Service.
3. To review patients' outcome data, clinical interventions, and the number of OPAT treatment days which equate to saved hospital bed days.

## Methodology

The OPAT service's standard was assessed in line with the 2019 British Society for Antimicrobial Chemotherapy (BSAC) "Updated Good Practice Recommendations for Outpatient Parenteral Antimicrobial Therapy (OPAT) in Adults and Children in the UK" using the "Assessment tool for the BSAC Outpatient Parenteral Antimicrobial Therapy Good Practice Recommendations 2019".

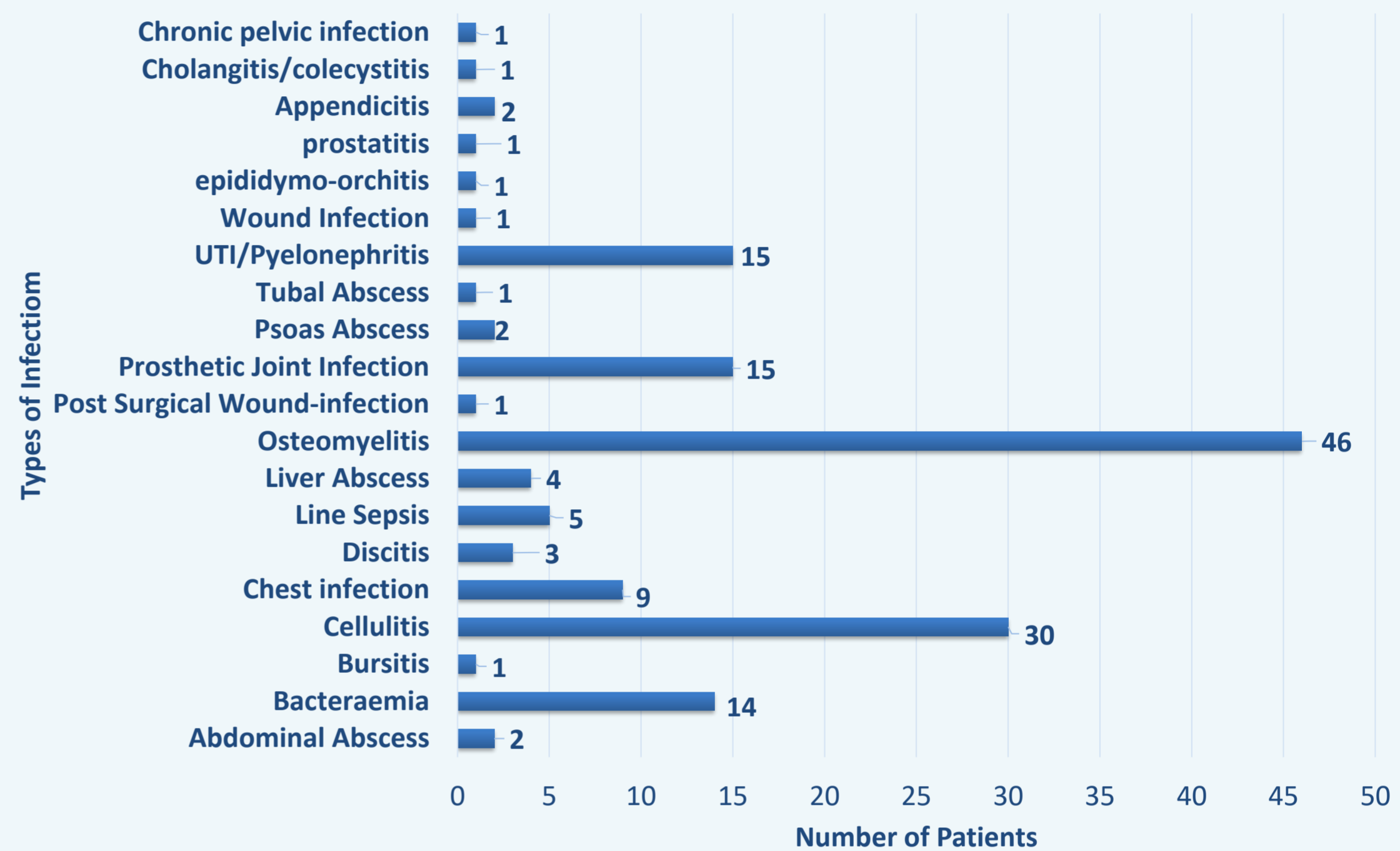
Patients' data was collected using an existing Excel spreadsheet populated with patient details and outcome data.

The Cerner electronic prescribing system was used to gather any additional information required from the patient's electronic medical records and all data was analysed on an Excel spreadsheet.

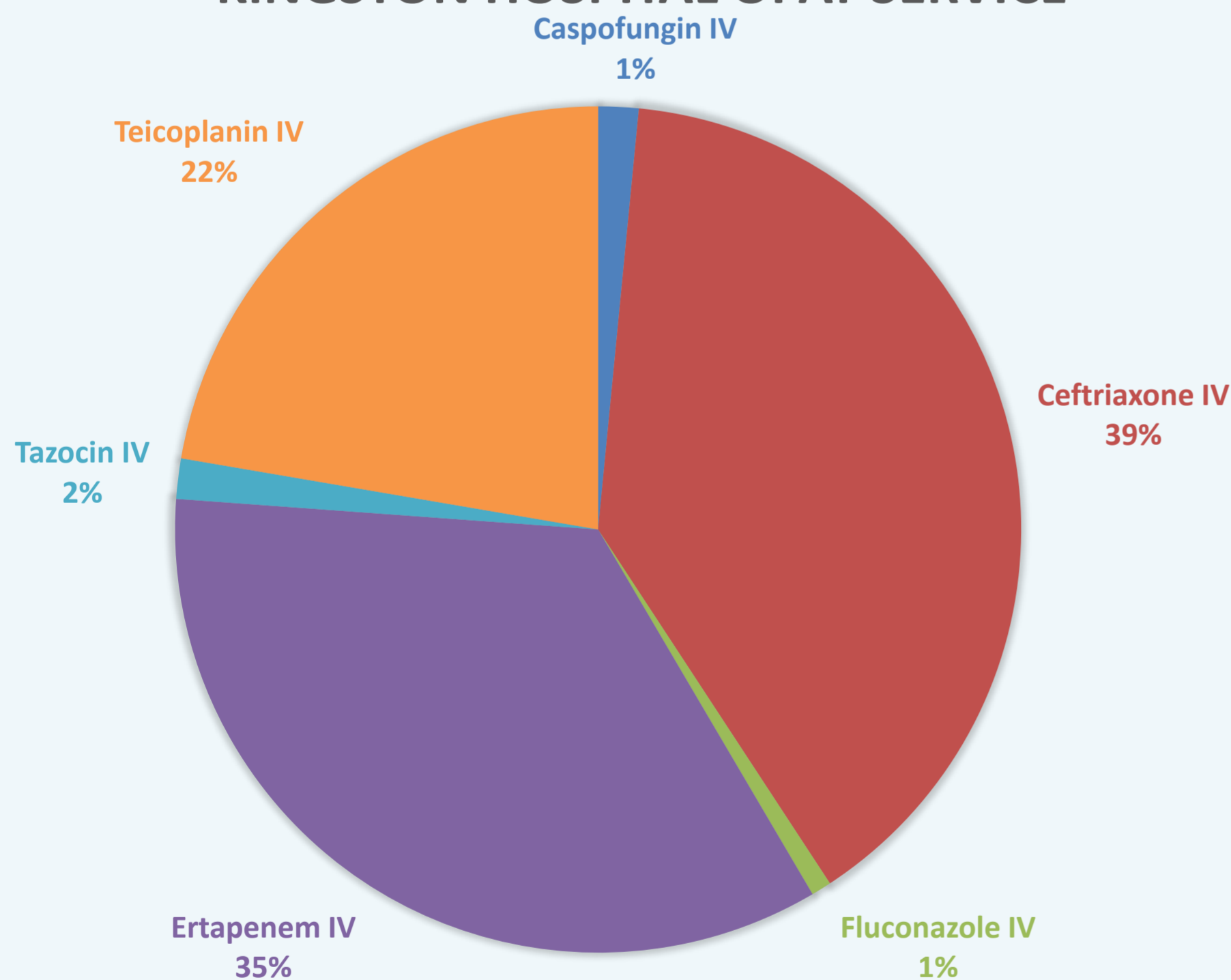
## Outcome

Audit Criteria	Latest results		Target	Standard met
	Number	%	%	Yes/No
Standard 1 -5 from the "Assessment tool of the BSAC Outpatient Parenteral Antimicrobial Therapy Good Practice Recommendations 2019".	39/39	100%	100%	Yes

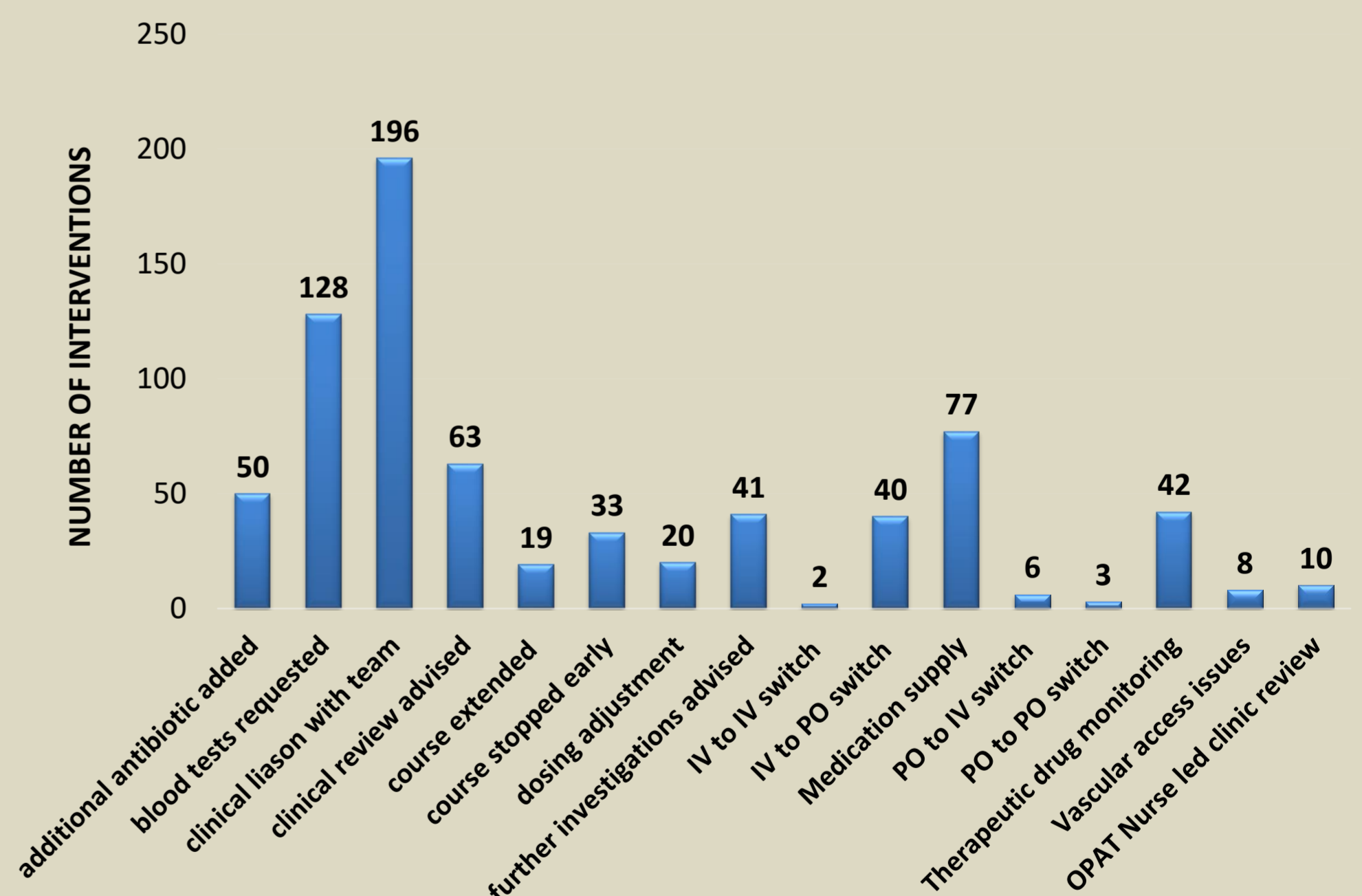
## TYPES OF INFECTION TREATED UNDER OPAT SERVICE-KINGSTON HOSPITAL



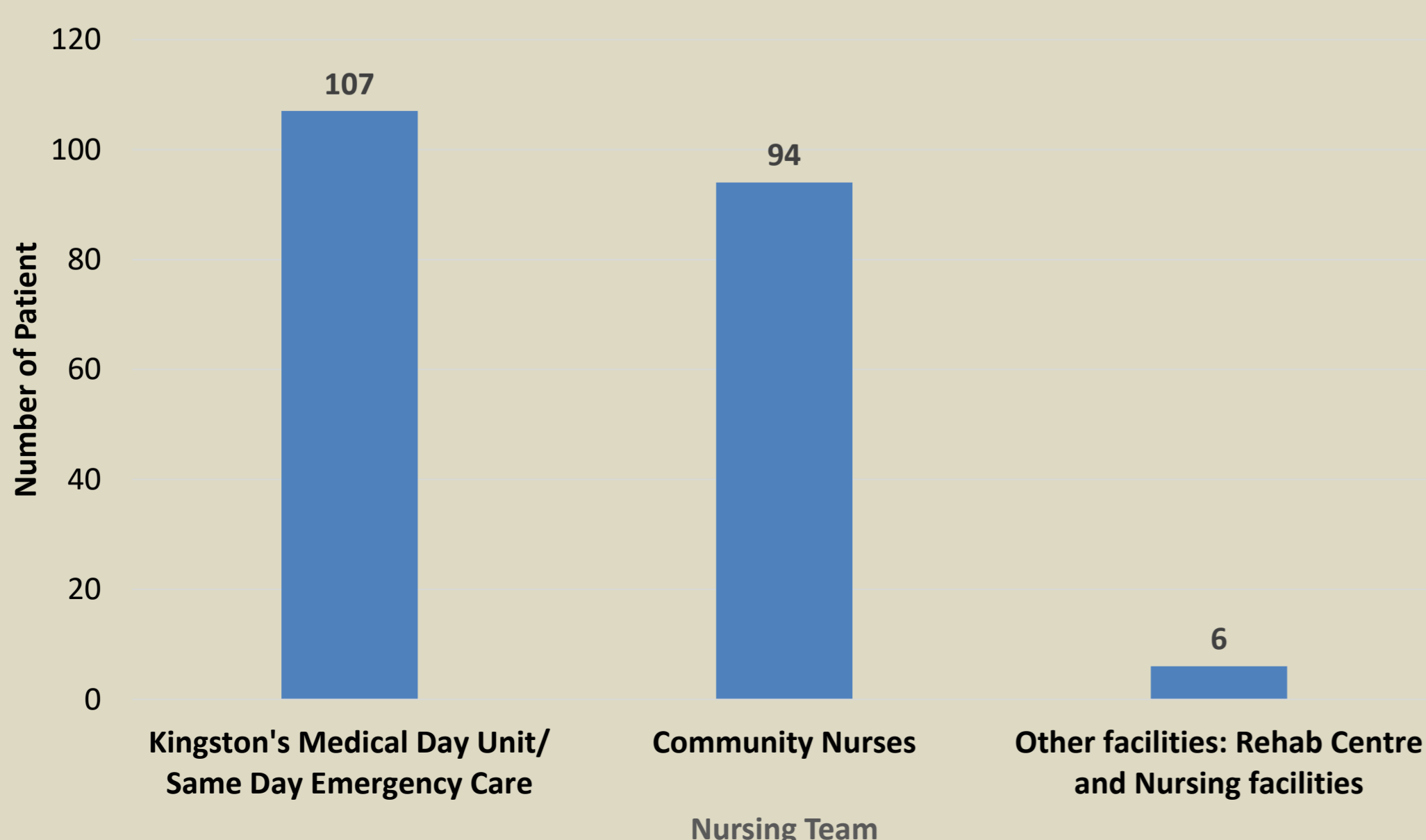
## IV ANTIBIOTICS USED IN KINGSTON HOSPITAL OPAT SERVICE



## OPAT INTERVENTIONS



## TEAM RESPONSIBLE FOR IV ADMINISTRATION



The service saved 1,854 treatment/bed days and as a result saved the Trust between £404,638 to £571,498.00 per year, based on NHS England reference costs.

The patient experience survey shows that 100% of the patients who responded had a very good experience with the OPAT service. All patients would accept the OPAT service again if the need arose and would prefer it over inpatient hospital stay for IV antibiotics

## Conclusions

The OPAT Service at Kingston Hospital has proved to be safe, efficacious, and acceptable for treating a wide range of infections, with the ability to improve patient choice, resulting in improved patient satisfaction.

Furthermore, the Service has shown to significantly reduce length of hospital stay resulting in cost savings. During the global pandemic, this proved to be an invaluable service by limiting potential exposure of patients to COVID-19 in the hospital environment.