

Complex Out-Patient Antimicrobial Therapy (COPAT) at Oxford University Hospitals NHS Foundation Trust

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Introduction

COPAT provides a service for **medically stable patients** who require:

- **Parenteral antimicrobials** for 14 days or more; *or*
- **Oral agents** requiring frequent monitoring e.g. linezolid.

COPAT is part of the OUH **Virtual Wards** service and benefits from **multidisciplinary team** input from:

- nurses, specialist pharmacists and a microbiology consultant.

Aim

This service review was conducted to identify the **range of antimicrobial agents** administered and the **patient groups** treated under the COPAT service.

Method

Data were extracted from the **electronic patient bed board** and records **reviewed retrospectively**.



Results


Patient Demographics


 **516** patients under COPAT during the 24 month period

 **59% Male** **41% Female**

 Mean age: **64 years** (range 16-95)

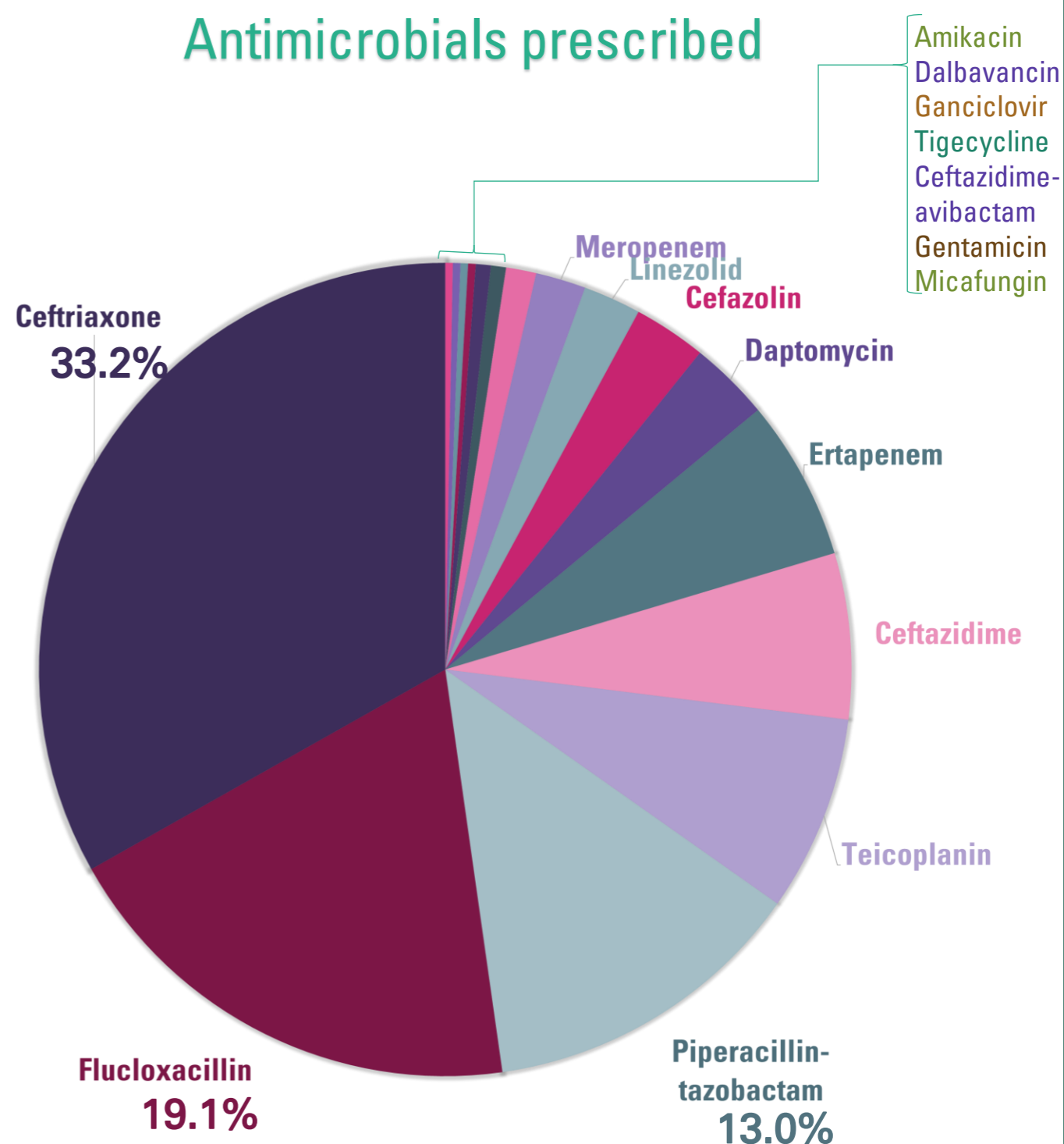
 **70%** lived within Oxfordshire County

 Average IMD rank: **22,903**
Where 1 = most deprived area and 32,844 = least deprived area of England

 **23.5%** were taught to self-administer or had a relative administer antimicrobials

 Mortality at 90 days was **4.3%**

Antimicrobials prescribed



Conclusion

During the evaluation period:

- COPAT saw a **wide range** of patients reflecting the tertiary nature of care provided by the Trust
- A variety of agents were administered including
 - **Antibiotics**
 - **Antivirals**
 - **Antifungals**
- The most commonly prescribed antimicrobial was **ceftriaxone**

- Self-administration was utilised to **maximise nursing capacity**

Future analysis could help guide the service by:

- Exploring **rationale** for self- or nurse- administration
- Reviewing patient **outcomes**
- Determining whether **infusion or bolus** administration of parenteral agents are used
- Ensuring appropriate use of **broad-spectrum antibiotics**