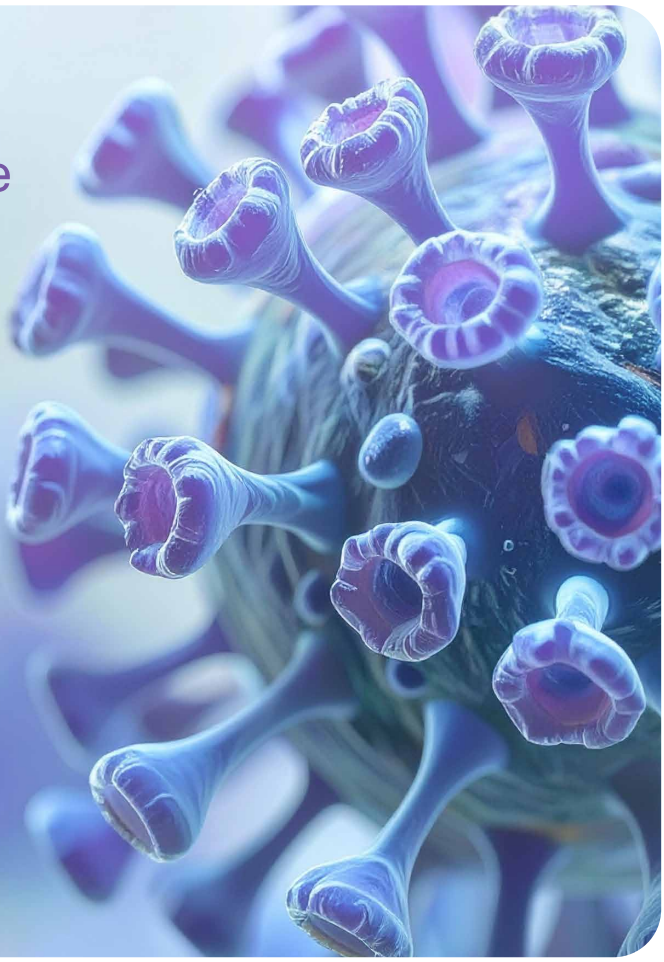
Outbreak Case Files

ASP Advanced Sterilization Products

Hidden Reservoir:

ESBL+ C. freundii & K. pneumoniae



NETHERLANDS

UNIVERSITY MEDICAL CENTER, GRONINGEN

2024

PROCEDURE:

ERCP

PATHOGEN:

ESBL-PRODUCING CITROBACTER FREUNDII & K. PNEUMONIAE

CASES INFECTED:

- **3 KNOWN**
  TWO BLOODSTREAM INFECTIONS, ONE UTI

REPROCESSING FAILURE:

STANDARD CULTURES FAILED; CONTAMINATION DETECTED AFTER SCOPE DISASSEMBLY AND NEXT-GENERATION SEQUENCING REVEALED ORGANISMS IN HARD-TO-CLEAN CHANNELS.

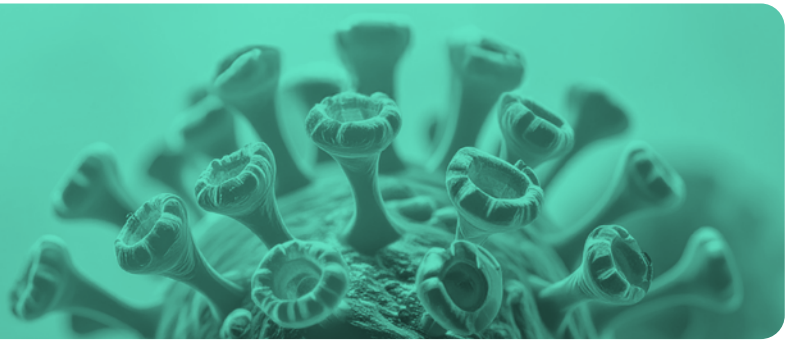
PATHOGEN IMPACT:

CAUSES BLOODSTREAM AND URINARY TRACT INFECTIONS; ESBL CONFERS RESISTANCE TO BROAD-SPECTRUM CEPHALOSPORINS.

SOURCE: Paterson DL, Bonomo RA. Extended-spectrum beta-lactamases: a clinical update. Clin Microbiol Rev. 2005;18(4):657–686.

CONSEQUENCES:

- SCOPE REDESIGN
- ENHANCED CLEANING PROTOCOLS
- ROUTINE NGS-BASED SURVEILLANCE
- COST MAINLY IN DEEP CLEANING
- MICROBIOLOGICAL TESTING



Protect your patients, protect your hospital , let's find the right solution together.

SOURCE: Cimen B, Arends A, Koopman F, et al. Uncovering the spread of drug-resistant bacteria through next-generation sequencing-based surveillance: Transmission of ESBL-producing Enterobacterales by a contaminated duodenoscope. J Hosp Infect. 2024;140:145–152. https://pubmed.ncbi.nlm.nih.gov/38459544/

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AP-2501173-01-1