

Double Threat: NDM-producing E. coli Outbreak



USA

HENRY FORD HOSPITAL, DETROIT
2024

PROCEDURE:

EGD, ERCP

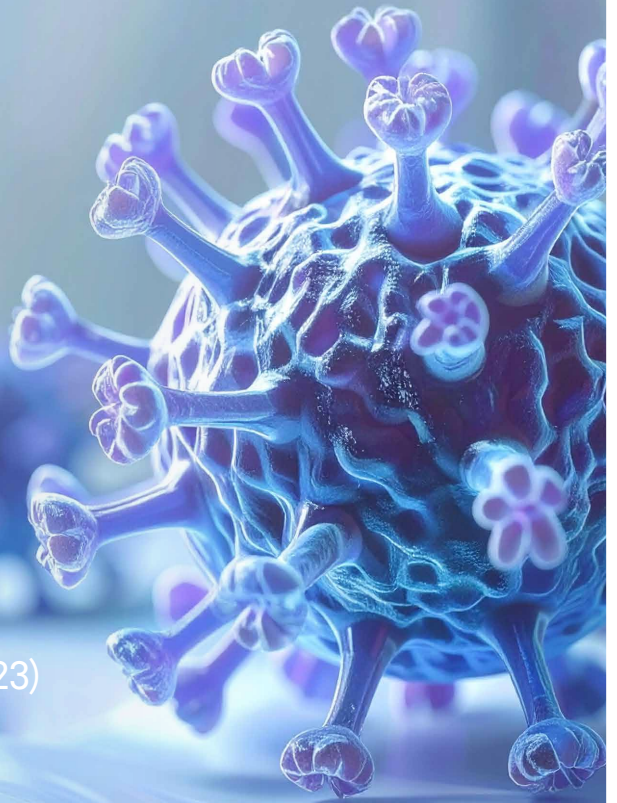
PATHOGEN:

NDM-PRODUCING E. COLI



CASES INFECTED:

- **9 PATIENTS**
(BETWEEN JULY 2021–FEBRUARY 2023)
- **MEAN INCUBATION 86 DAYS**
(RANGE UP TO 320)
- **3 DEATHS**



REPROCESSING FAILURE:

NO BREACH FOUND AND NO PATHOGEN CULTURED, BUT EPIDEMIOLOGY AND WGS SUGGEST SCOPE-LINKED TRANSMISSION; RESOLUTION VIA DISPOSABLE ELEVATOR CAPS.



PATHOGEN IMPACT:

CAUSES SEVERE INFECTIONS (SEPSIS, PERITONITIS), EXTREMELY LIMITED TREATMENT OPTIONS, ~33% MORTALITY.

SOURCE: Simner PJ, Patel R. New β -Lactam/ β -Lactamase Inhibitor Combinations in the Treatment of Multidrug-Resistant Gram-Negative Bacteria. Infect Dis Ther. 2023;12(3):1243–1264.

CONSEQUENCES:

- SCREENING OF APPROXIMATELY 1,200 EXPOSED INDIVIDUALS
- WHOLE GENOME SEQUENCING (WGS) CONDUCTED
- SCOPE REMOVAL AND REPLACEMENT REQUIRED
- ESTIMATED HEALTHCARE IMPACT: SEVERAL HUNDRED THOUSAND USD



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

SOURCE: Suleyman G, Yigit M, Khan F, et al. Use of whole genomic sequencing to detect New Delhi metallo- β -lactamase-producing Escherichia coli outbreak associated with endoscopic procedures. Infect Control Hosp Epidemiol. 2024;45(8):971–976. <https://pubmed.ncbi.nlm.nih.gov/38495009/>

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