

Dual Resistance Danger: NDM+ CRE E. coli



ISRAEL

RAMBAM HEALTH CARE CAMPUS, HAIFA
2023

PROCEDURE:

ERCP

PATHOGEN:

NDM-PRODUCING CRE E. COLI



CASES INFECTED:

- AT LEAST 3 WITH SEVERE SEPSIS
POSSIBLY MORE IN SERIES OF TWO
OUTBREAKS LINKED TO SAME DEFECT



REPROCESSING FAILURE:

ROOT CAUSE TRACED TO ENDOSCOPE DEFECT; CORRECT REPROCESSING PER
MANUFACTURER BUT DEFECT ALLOWED TRANSMISSION; BROKE CHAIN VIA DISPOSABLE CAPS.



PATHOGEN IMPACT:

PATHOGEN IMPACT: HIGHLY DRUG-RESISTANT; CAUSES SEPTIC SHOCK, BLOODSTREAM
INFECTIONS; DUAL RESISTANCE LIMITS THERAPY OPTIONS.

SOURCE: Simner PJ, Patel R. New β -Lactam/ β -Lactamase Inhibitor Combinations in the Treatment of Multidrug-Resistant Gram-Negative Bacteria. Infect Dis Ther.

CONSEQUENCES:

- DEVICE DEFECT REVIEW
- IMPLEMENTATION OF DISPOSABLE CAPS
- REPROCESSING AUDITS
- COST IN REPLACEMENT
- SCREENING
- EXTENDED CARE

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

SOURCE: Dabaja-Younis H, Geffen Y, Rokney A, et al. Identification and control of two outbreaks of unrelated New Delhi metallo- β -lactamase-producing carbapenem-resistant Escherichia coli traced to the same endoscope defect. Infect Control Hosp Epidemiol. 2023;44(7):1090–1095. <https://www.cambridge.org/core/journals/infection-control-and-hospital-epidemiology/article/identification-and-control-of-two-outbreaks-of-unrelated-new-delhi-metallolactamase-producing-carbapenem-resistant-escherichia-coli-traced-to-the-same-endoscope-defect/6E8716315AFE9C65066134B22C78CE72>

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