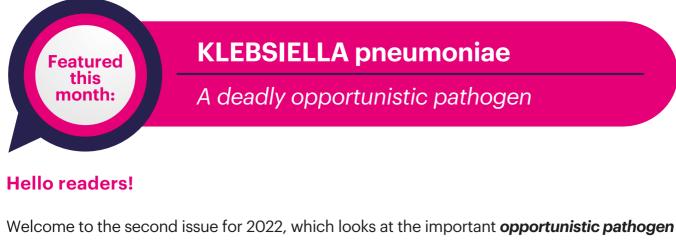
Cutimed® MARCH 2022 NEWSLETTER

Compiled by **Helen Loudon IPC Consultant CLICK HERE TO DOWNLOAD**

KLEBSIELLA pneumoniae A deadly opportunistic pathogen



Klebsiella pneumoniae ['Kleb-see-ell-uh nyoo-mow-nee-ai'], which is responsible for numerous types

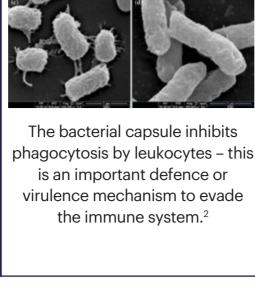
of healthcare-associated infections (HAIs) and associated deaths. The aim of the Microbe of the Month newsletter is to help create awareness about microorganisms of clinical importance in healthcare today, in an easy to read and understand format. Each newsletter explores the origin and epidemiology of specific bacteria, viruses or fungi (i.e., the infections they may cause and their modes of transmission) and highlights the measures which should be taken to

limit their spread. Please use this newsletter as a teaching tool in your workplace, share it widely with colleagues and start an infectious dialogue about topical issues in infection control!

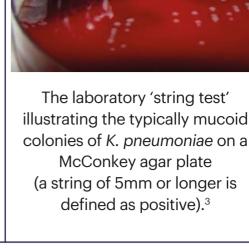
the late 19th century and was originally known as 'Friedlander's bacterium'.1

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Klebsiella pneumoniae was first isolated in







You

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to get your to find out more Watch a short video on Cutimed® Sorbact® **CLICK CLICK** free AMR kit about Essity including benefits, uses and instructions **CLICK HERE TO DOWNLOAD THE NEWSLETTER MORE ABOUT KLEBSIELLA BACILLI**^{1,2,4,6,7} Klebsiella are encapsulated Gram-negative bacteria, capable of both aerobic and anaerobic respiration. They are part of the normal human intestinal flora (also known as commensal or resident

people of all age groups - especially premature infants, the elderly, immunocompromised individuals, and alcoholics - particularly with exposure to broad spectrum antibiotic therapy, and where invasive catheters and devices are present. Colonisation with K. pneumoniae may be difficult

In the healthcare setting, Klebsiella pneumoniae (K. pneumoniae) causes a variety of infections in

flora, where they do not cause disease) and occur widely in the environment in soil and water.

to distinguish from infection when making a diagnosis.

case fatality rates are high (up to 90% in untreated cases).

The range of infections includes pneumonia (it is a frequent cause of ventilator-associated pneumonia), surgical site infection, urinary tract infection, bloodstream infection, meningitis, and liver abscesses. Although K. pneumoniae accounts for a smaller percentage of pneumonia cases, the

K. pneumoniae is now a major threat to public health because it has developed antimicrobial resistance

classes of antibiotics including carbapenems, which are often a last resort for the treatment of K. pneumoniae infections in The characteristic appearance of mucoid critically-ill patients. 4,6,7,8,9 "red currant jelly" sputum in pneumonia caused by Klebsiella pneumoniae. 4

resistant Enterobacteriaceae' (CRE) for more information on this topic.

This bacterium is spread through person-to-person contact (e.g., the contaminated hands of healthcare or other personnel), or indirectly via contaminated environmental surfaces and

Please refer to Microbe of the Month July 2019 'Understanding carbapenem-

(AMR) to all commonly-used

beta-lactam antibiotics and to other



Hand hygiene before and after every patient contact is the cornerstone of standard and contact precautions.

Wear appropriate PPE (gloves, visors and disposable plastic aprons) for

For this reason, patients should also be reminded to clean their hands often, including:

procedures where exposure to invasive devices, body fluids, soiled linen or

infection prevention and control measures necessary to control

healthcare-associated infections (HAIs).

healthcare risk waste is anticipated.

Before touching their eyes, nose or mouth

remote controls or the telephone

Before preparing or eating food

Standard and contact precautions are a fundamental component of the

How is Klebsiella pneumoniae spread? 5,6,7

Before and after changing wound dressings or bandages After using the toilet After blowing their nose, coughing or sneezing After touching hospital surfaces such as bed rails, bedside tables, doorknobs,

THE BOTTOM LINE.. isolation

Patients hospitalised for extended periods - usually in an ICU, treated with invasive devices

such as catheters, ventilators and broad-spectrum antibiotics - are at highest risk.

Other risk factors include organ transplants, renal failure, diabetes mellitus and patients in

Minimise furniture and designate patient care equipment for use on that patient only. Use

Healthy individuals do not usually acquire infections with K. pneumoniae.

disposable supplies where possible. Ensure that patient care equipment is properly cleaned and disinfected prior to re-use on another patient. after touching a patient, their environment or their possessions. contaminated items such as drainage tubes. Avoid the use of invasive devices where possible, and practice strict aseptic technique for their insertion and after-care. Bathe ICU patients (and those with invasive devices, e.g., central lines) with chlorhexidine

the bags inside the room.

gluconate antiseptic liquid soap daily.

Your 5 Moments

for Hand Hygiene

AFTER TOUCHING PATIENT SURROUNDINGS

BEFORE TOUCHING A PATIENT

REFERENCES

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Cutimed® Sorbact® Mode of action

bacteria without releasing possibly harmful endotoxins.²

An infected and

colonised wound.

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Technology that binds bacteria with a purely physical mode of action. Sorbact® Technology removes

Cutimed® Sorbact® is applied directly to the

wound. Bacteria and/or

fungi are attracted to the

Sorbact® mesh.

Bound pathogens

are removed with

each dressing

by Leukoplast®

Effective infection management

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1.

long-term care and frail aged nursing homes.

Wash hands promptly after contact with infective material, and always after glove removal. Apply alcohol-based hand rub frequently during tasks when hands are not visibly soiled, and ✓ Wear gloves when in contact with blood, body fluids, secretions, mucous membranes and

AFTER

possible (including sharps bins); these are also to be kept inside the room for isolated patients. Yellow linen bags and waste containers should be collected from the isolation room directly (and not stored in the sluice room).

✓ Handle used and soiled linen carefully. Use yellow plastic bags for isolated patients and keep

Dispose of healthcare risk waste (HCRW) carefully – use disposable HCRW containers where

least twice daily. There is no need for visiting restrictions; however, visitors should wash their hands with soap and water upon entry and exit.

Clean and disinfect environmental surfaces with a sodium hypochlorite-based detergent

cleaner, using colour-coded cloths and cleaning equipment. Frequently touched surfaces,

e.g., cot sides, lockers, monitors, light switches etc., should be cleaned and disinfected at

BEFORE CLEAN / ASEPTIC PROCEDURE AFTER BODY FLUID EXPOSURE RISK AFTER TOUCHING A PATIENT TOUCHING PATIENT

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Ashurst JV, Dawson A. Klebsiella Pneumonia. StatPearls. Treasure Island (FL): StatPearls Publishing;

A PATIENT









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change. 'Mosti G, Magliaro A, Mattaliano V, et al. Comparative study of two antimicrobial dressings in infected leg ulcers: a pilot study, J Wound Care 2015;24(3):121-122;124-127 "Susilo YB, Husmark J, DACC Coated Wound Dressing and Endotoxin: Investigation on Binding Ability and Effect on Endotoxin Release from Gram-negative Bacteria. Poster Essity. 30 Gillitts Road, Pinetown 3610. Phone: + 27 31 710 8111. Email: medical.za@essity.co.za. www.essity.com **Cutimed®** essity Cutimed*, an Essity an Essity brand Sorbact® is a registered trademark of ABIGO Medical AB

Leukomed® Sorbact® Surgical site infection prevention • Clinically significant 65% relative risk reduction of acquiring a surgical site infection post caesarean section¹ • Up to 57% cost reduction of SSI when treating caesarean sections, using NHS cost model² Effective reduction of the bacterial burden in critically colonised or locally infected wounds3

dressings for the prevention of surgical site infections in adult women undergoing caesarean section. Surg Infect (Larchmt) 17(4): 427-35

²⁾ Davies H, McMaster J, et al. Cost-effectiveness of DACC dressing to prevent SSI following caesarean section. Presented at Wounds UK, Harrogate, November 2018

3) Cutting K, Maguire J (2015) Safe bio rden management. A clinical review of DACC technology. Journal of Wound Care Vol 24, No 5 Essity. 30 Gillitts Road, Pinetown 3610. Phone: + 27 31 710 8111. Leukomed essity Leukoplast*, an Essity brand