CASE REPORT OF RHIZOBIUM RADIOBACTER NEONATAL SEPSIS IN SANGLAH HOSPITAL

Samantha Celena Triadi *,1, I Dewa Made Sukrama ** and Ni Made Adi Tarini **

* Clinical Microbiology Specialist Program, Faculty of Medicine and Health Sciences, Udayana University/Sanglah General Hospital Denpasar, Bali, Indonesia,

** Department of Clinical Microbiology, Faculty of Medicine and Health Sciences, Udayana University/Sanglah General Hospital Denpasar, Bali, Indonesia

ABSTRACT Neonatal sepsis is still a problem in the health sector, particularly in developing countries, and the incidence is quite high; therefore requires early detection and proper therapy. We report a rare manifestation of *Rhizobium radiobacter* infection in which sepsis occurred in a newborn infant. In patients with sepsis caused by R. *radiobacter* appropriate antibiotics are needed to prevent worsening. R. *radiobacter* is often a bacterial contaminant and rarely causes infection in humans, but in immunocompromised patients, this microorganism can be an agent in an infection. This study aims to improve understanding of sepsis caused by R. *radiobacter*. This study is a case report of a 27-day-old neonate with sepsis neonatal. From the result of the two-sided blood culture using VITEK 2 Compact on September 28, 2020, R. *radiobacter* was detected. Meropenem was administered intravenously from day 20 in hospital, but the patient's condition gradually deteriorated, and the patient died 28 days after birth. R. *radiobacter* was rarely reported as a pathogen. Immunocompromised patients, delayed detection and inadequate treatment can increase morbidity and mortality.

KEYWORDS *Rhizobium radiobacter*, blood culture, sepsis

Introduction

Infection is the major cause of neonatal deaths in developing countries. This infection can be acquired through exposure to microbes that colonize the maternal genital tract (vertical transmission) or through exposure during treatment in a health care setting[1]. R. radiobacter is a member of the genus Agrobacterium, formerly known as Agrobacterium radiobacter. This bacterium is gram-negative motile rods, non-spore-forming, aerobic, oxidase-positive, saprophytic, and plant pathogens[2]. Rhizobium radiobacter infection in neonates leading to neonatal sepsis. Neonatal sepsis is a clinical syndrome of bacteremia characterized by systemic symptoms and signs, especially in the first month of life. This condition is one of the most common causes of death in neonates. One factor is the inappropriate administration of antibiotics which causes an increase in antibiotic resistance. First-

Copyright © 2022 by the Bulgarian Association of Young Surgeons DOI: 10.5455/IJMRCR.CASEREPORTOFRHIZOBIUMRADIOBACTERNEONATAL First Received: November 15, 2021

Accepted: January 25, 2022 Associate Editor: Ivan Inkov (BG);

¹Corresponding author: Samantha Celena Triadi; samanthacelena@gmail.com

line antibiotic resistance will lead to the administration of newer and more expensive antibiotics. Therefore, the importance of microbiological examination and monitoring of bacterial patterns can improve the management of neonatal sepsis[3]. The incidence of neonatal sepsis in Sanglah Hospital is 5%, with a mortality rate of 30.4%. In contrast, at Cipto Mangunkusumo Hospital, Jakarta, the incidence of neonatal sepsis is still high at 13.7%, with a mortality rate of 14%. Low birth weight and prematurity are associated with mortality in neonatal sepsis. The difficulty in evaluating and optimal treatment of bacterial infection in neonates is caused by the clinical signs of neonatal sepsis, which are often variable and non-specific. Infections caused by R. *radiobacter* are very rare often occur if the patient is immunocompromised and associated with intravascular devices in immunocompetent patients.

Case Report

A 41-year-old pregnant woman with Congestive Heart Failure and a suspect of Peripartum cardiomyopathy presented in the emergency department delivered a preterm male infant. The clinical examination of the infant showed admission weight 2200 g, the patient was somnolence (GCS 6, E2V2M2), respiratory rate 60/min, heart rate 170/min, capillary refill time 4 s,

audible grunting with subcostal and intercostal retraction, nasal flaring, mottling, abdominal distention, normal heart sounds and the infant was born with Apgar scores of 1 at one minute and 2 at five minutes. On chest examination, ronchi were heard. On examination, the eyes, ears, nose and throat, lymph nodes, heart, abdomen, and extremities were within normal limits. On examination, bowel sounds were normal, and there was no enlargement of the liver, spleen, and distention. The diagnosis of this baby was severe asphyxia and suspected sepsis. The infant was started on nasal bubble CPAP (Continuous positive airway pressure) for respiratory system support and was evaluated with a chest radiograph and sepsis screen. The chest X-ray showed homogenous opacity in the right lower and right middle lobe suggesting pneumonia. Because there was a problem in this patient hemodynamic, the infant was started on vasopressors. The sepsis screen revealed an absolute neutrophil count of $1043/\mu$ L (neutropenia), platelet count of $126.000/\mu$ L (thrombocytopenia), immature neutrophil/total neutrophil (I/T) ratio of 0.299. Blood gas analysis showed acidosis with a pH of 7.30, Pco2 25.9 mmHg. The blood culture showed the growth of colonies with a clear appearance, uneven edges, bumpy surfaces and mucoid appearance. The examination continued with identification using the VITEK2 machine (Biomerieux, France), where R.radiobacter was identified with the antibiotic sensitivity test showing sensitivity to Levofloxacin only. The patient has been given Ampicillin 110 mg every 12 hours and Amikacin 17 mg every 8 hours, followed by Meropenem. The patient showed no clinical improvement, and at the age of 28 days, the patient died.

Discussion

R.radiobacter is a pathogen that causes tumorigenic disease in plants. This bacterium is often considered non-pathogenic, but it has been found to cause infections in a patient with the immunocompromised condition and chronic diseases in the last decade. One of the factors causing the patient to become infected with this bacterium is the use of invasive devices, especially peritoneal dialysis catheters or central venous catheters. Infection caused by R.radiobacter in children has not been reported frequently. Infection is common in pediatric patients who use medical devices such as central venous catheters. The common pathogens that cause infection in central venous catheters are staphylococci, Gram-negative bacilli and fungi. Reports of central venous catheter infection caused by R.radiobacter are rarely reported. However, several studies show this organism can cause other infections, including endocarditis, urinary tract infections and peritonitis. One of the important factors that increase the risk for R.radiobacter infection is the installation of medical devices. R. radiobacter is a Gram-negative bacillus that grows aerobically on Blood Agar and MacConkey agar media. These bacteria are motile because they have peritrichous flagella. These bacteria are catalase-positive, oxidase negative and urease-positive. In media containing higher concentrations of carbohydrates, the production of extracellular polysaccharide mucus usually appears. These bacteria have microbiological features similar to Pseudomonas, Alcaligenes and Bordetella but can easily be distinguished by biochemical tests and morphological examination of flagella. Identification of these bacteria can be made by testing the production of 3-ketolactose. If the 3-ketolactose production test cannot be carried out, an alternative test that can be used is the carbohydrate, mannitol, lactose and maltose oxidation test. Based on the phytogenic effect, bacteria are classified into three species: Agrobacterium tumefaciens,

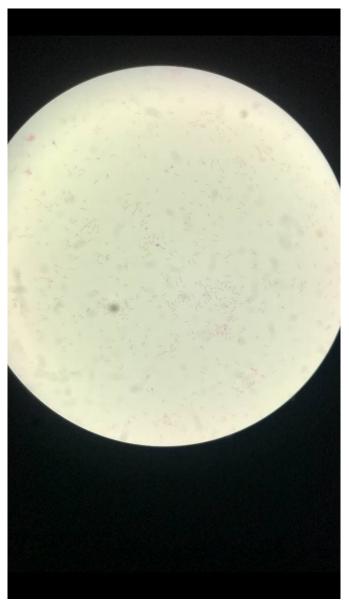


Figure 1:

Agrobacterium rhizogenes and Agrobacterium rubi. R. radiobacter has the character of lacking tumorigenic Ti plasmids, while A. tumefaciens is a pathogen that often causes infections in humans. The species name, "radiobacter," is of Greek origin, meaning "ray" because this group of bacteria forms a star. The mechanism of transmission of R. radiobacter in humans has not been elucidated. The earliest reports of infection caused by R. radiobacter in 1967 considered that this organism was often a contaminant and had weak pathogenic properties[5]. In a study by Plotkin, the first case of R. radiobacter infection in humans was endocarditis in a patient following a prosthetic aortic valve in 1980[6]. In adult and pediatric patients, this bacterium is associated with infections associated with the insertion of invasive devices such as CVC. In one study, it was found that more than half of R. radiobacter infections were catheter-associated bacteremia7. Infection is common in pediatric patients who use medical devices such as central venous catheters. The pathogens that cause infection in central venous catheters are staphylococci, Gram-negative bacilli, and fungi. Reports of central venous catheter infection

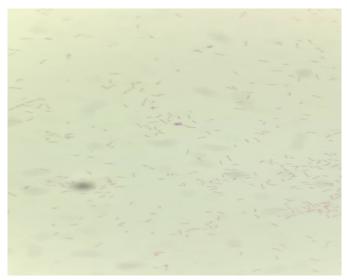


Figure 2:



Figure 3:

caused by R. radiobacter are rarely reported. These bacteria have low virulence. If these bacteria are identified in the patient, removing or replacing the medical device is an important part of the patient's therapy. This bacteria are sensitive to gentamicin, ceftazidime, amikacin, carbapenems, piperacillin tazobactam, cefepime and polymyxin. There is some prevention for this infection such as removing or replacing medical devices, the appropriate antibiotic is given according to the results of the



Figure 4:

sensitivity test, minimizing the use of medical devices made of plastic, use of cuff and tunnelled CVC or CVC with impregnated chlorhexidine and silver sulfadiazine in patients, giving impregnated antimicrobial to CVC with non-cuff and non tunnelled type, considering the patient's condition so that the frequency of CVC installation can be minimized, advise outpatient CVC patients to avoid activities that are directly related to the soil, such as gardening or repairing the house. In summary, we report a case of invasive R. *radiobacter* infection in a newborn infant with a history of central venous access. This case highlights a rare manifestation of R. *radiobacter* infection.

Conclusion

A male baby was born with severe asphyxia in the emergency department. The patient was treated by CPAP for respiratory support and got evaluated with a chest radiograph, blood culture and sepsis screen. The chest X-ray showed homogenous opacity in the right lower and right middle lobe suggesting pneumonia. The blood culture showed the growth of colonies with a clear appearance, uneven edges, bumpy surfaces and mucoid appearance. The examination continued with the VITEK2 machine (*Biomerieux*, *France*), where R. *radiobacter* was identified with the antibiotic sensitivity test showing sensitivity to Levofloxacin only. The infant was started on Ampicillin 110 mg every 12 hours and Amikacin 17 mg every 8 hours, followed by Meropenem. The patient showed no clinical improvement, and at the age of 28 days, the patient died.

List of abbreviation

I/T ratio : immature neutrophil/total neutrophil

GCS : Glasgow Coma Scale
CVC : Central Venous Catether

CPAP : Continuous positive airway pressure

Acknowledgement

We want to thank Ida Sri Iswari (clinical Microbiology medical Doctor, head of Clinical Microbiology Laboratory Department Sanglah General Hospital), Ni Nyoman Sri Budayanti, Clinical Microbiologists and technicians of Clinical Microbiology Installation at Sanglah Hospital, for their support.

Funding

This work did not receive any grant from funding agencies in the public, commercial, or not-for-profit sectors.

Conflict Of Interest

There are no conflicts of interest to declare by any of the authors of this study.

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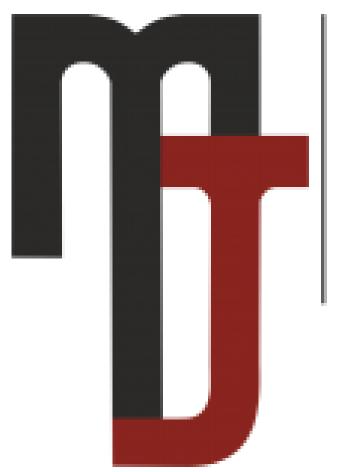
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Debadrita Sen, Prasenjit Sarkar, Alpana Banerjee, Abhijit Datta

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10.5455/IJMRCR.HistopathologicalSpectrumofCNSTumors

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3. Evaluation of bacteriological profile of pyogenic infections and their susceptibility profiles at a tertiary care hospital Wajid M, Shazia Naaz, Syeda Saba Hashmiya

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(http://dx.doi.org/10.5455/IJMRCR.LAPAROSCOPICMANAGEMENTOFPANCREATICPSEUDOCYSTOUREXPERIENCEIN27CASES)

Case Report

5. Activated phosphoinositide 3-kinase delta syndrome in a Portuguese teenager with PIK3R1 variant, a case report

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Case Report

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Original Research

8. Cytogenetic evaluation of antidepressant drug, Sertraline, in vitro

Rawaa Mohammed Abdo, Sayran Kamal Mohammad Salih, Dian Jamel Salih, Asaad Abdulwahid Alasady

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<u>Image</u>

11. Lichen scrofulosorum: a rare clue to Mycobacterium tuberculosis infection

Ana Luísa Nunes, Daniela Santos, Carolina Figueiredo, Ana Lai, Jandira Lima

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16. Case report of Rhizobium radiobacter neonatal sepsis in Sanglah hospital

Samantha Celena Triadi, I Dewa Made Sukrama, Ni Made Adi Tarini

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10.5455/IJMRCR.CASEREPORTOFRHIZOBIUMRADIOBACTERNEONATAL

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Original Research

17. A one year study of spectrum of ocular lesions in a tertiary care centre

Ashwini Natekar, Megha Kinake, Shweta Watane, Snehal Chavhan, Sanjay Bijwe

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18. Malignant Peritoneal Mesothelioma in a Treated Patient of Pleural Mesothelioma Detected on 18F-Fluorodeoxyglucose Positron Emission Tomography Scan

Mishal Mumtaz, Muhammad Numair Younis, Abubaker Shahid

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19. Sinonasal Hemangiopericytoma: Late local recurrence, therapeutic difficulties: About a case

Meryem Belhouari, Hind Zidani, Nezha Tawfik, Mouna Bourhafour, Nadia Benchakroun, Zineb Bouchbika, Hassan Jouhadi, Souha sahraoui, Abdelttif Benider

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20. Safety and Effectiveness of HAL-RAR (Haemorrhoid Arteri Ligation with Recto Anal Repair) With No Doppler Guided Technique on Stage III Internal Haemorrhoid: A Single Operator Experience

Budhi Ida Bagus, Metria Ida Bagus, Setyawati Ida Ayu

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