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# MINI SYMPOSIUM CONTINUING MEDICAL EDUCATION FACULTY OF MEDICINE UNIVERSITAS TRISAKTI

*"Enhancing the Hospital Infection & Resistance Control"*

WEDNESDAY | 22 MAY 2024 | 11.00 - 13.00



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# The Association between Medical History-based Risks and Sepsis Events in Immunocompromised Patients according to Type III Stratification of the Indonesian Regulation on the Prospective Antimicrobial System (*Regulasi Antimikroba Sistem Prospektif / RASPRO*)

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## ABSTRACT

**Background:** The Indonesian Regulation on the Prospective Antimicrobial System (*Regulasi Antimikroba Sistem Prospektif / RASPRO*) is a novel program. Its role has been reinforced by the Indonesian Ministry of Law and Human Rights which may predict the risk of sepsis events. Our study aimed to evaluate whether the risk factors listed in the consensus have actual effects on sepsis events.

**Method:** The study was a retrospective cohort using secondary data with 98 subjects. The subjects were categorized into two groups, i.e., the *RASPRO* group with type III stratification (*RASPRO* Group) and Non-type III stratification (*RASPRO* Group). Subjects with infection but with conditions other than the abovementioned criteria were categorized into the Non-*RASPRO* group.

**Results:** We found that among subjects in the *RASPRO* group, a history of antibiotic use over the past <30 days (95%CI 1.32–8.85; p=0.011) and a history of having procedure using medical instruments within the last <30 days (95%CI 1.06–6.45; p=0.037) seemed to be greatest risk factors for sepsis events.

**Conclusion:** The *RASPRO* group has a higher risk for sepsis events than the non-*RASPRO* with a history of antibiotic undergoing a procedure using a medical instrument within the last <30 days possessed the greatest risk factors for sepsis events.

**Keywords:** *RASPRO*, stratification, risks, sepsis.

**Cite This Article:** Natadidjaja, R.I., Kusuma, A.S., Sudradjad, G.B., Nugrohowati, L. 2021. The Association between Medical History-based Risks and Sepsis Events in Immunocompromised Patients according to Type III Stratification of the Indonesian Regulation on the Prospective Antimicrobial System (*Regulasi Antimikroba Sistem Prospektif / RASPRO*). *Bali Medical Journal* 10(3): 1031–1036. DOI: 10.15562/bmj.v10i3.2561

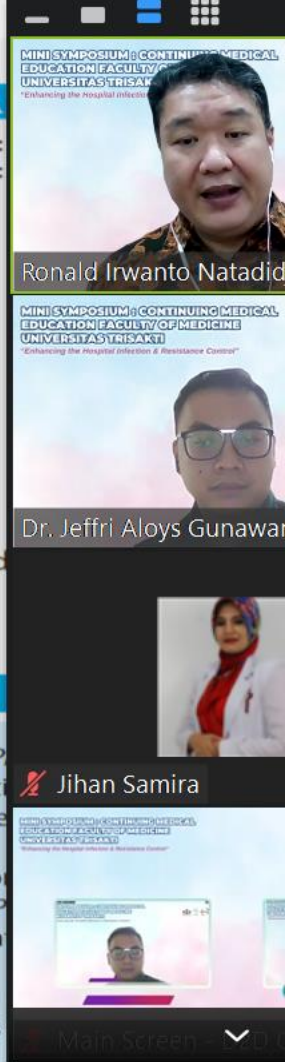
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# Content



- Mechanism of carbapenem resistance
- Mechanism of resistance and epidemic potential
- Mechanism of resistance and risk factors
- Elements of CPE control strategies (WHO multimodal Infection prevention and control strategy)
- Identifying asymptomatic CPE carriers
- Implementing high-risk screening
- Implementing contact precaution
- Geographical separation of and contact precaution for CPE carriers

Dr Kalisvar Marimuthu



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