**STUDI RASIONALITAS PENGGUNAAN ANTIBIOTIK PADA PASIEN RAWAT INAP DI BANGSAL PENYAKIT DALAM RSUP NUSA TENGGARA BARAT PADA JANUARI 2013 – DESEMBER 2013**

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**ABSTRACT**

**THE STUDY OF ANTIBIOTICS USAGE RATIONALITY IN INPATIENTS OF INTERNAL MEDICINE WARD IN WEST NUSA TENGGARA GENERAL HOSPITAL ON JANUARY 2013-DECEMBER 2013**

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**Background:** Theirrational use of antibiotics becomes a global issue for the last several years. The internal medicine ward is one of the sections that often use antibiotics, which make this ward has a high risk of irrational antibiotics use.

**Objective:** To determine whether the antibiotics usage in internal medicine ward inpatients in West Nusa Tenggara general hospital on January 2013 – December 2013 has been rational.

**Method:** This study isan observational descriptive research with retrospective approach that assessed the quantity and quality of antibiotics use from patients’ medical records. Samples were chosen using a consecutive sampling method. Antibiotics quantity was assessed by calculating Defined Daily Dose (DDD)/100 bed days and antibiotics quality was assessed using a Gyssens’s criteria.

**Result :** From 102 medical records, there were 171 antibiotic prescriptions with the total of antibiotics use of 99.3 DDD/100 bed days and metronidazole was the most used antibiotics, with 27.1 DDD/100 bed days. Using Gyssens’s criteria showed 62.0% as criteria 0 (appropriate use of antibiotics), 18.7% as criteria IVA (there are other more effective antibiotics), 5.8% as criteria V (no indication of antibiotics use), 5.3% as criteria IIB (improper antibiotics usage interval), 4.7% as criteria IIA (improper antibiotic usage dose), 1.8% as criteria IIIA (prolonged antibiotics usage), and 1.8% as criteria IIIB (duration of antibiotics was too short).

**Conclusion:** Quantitatively, metronidazole was the most used antibiotics (27,3%), while the least used antibiotics was amoxicillin (0,1%). Qualitatively, using Gyssens’s criteria, there were 62% of appropriate use of antibiotics administration and 18,7% antibiotics as criteria IVA.

**Key words:** rational use of antibiotics, Gyssens’s criteria, Defined Daily Dose (DDD) / 100 bed days