

RATIONAL ANTIBIOTIC USE AND PATIENT SAFETY: A SYSTEMATIC REVIEW

Regina Destrina Damanik, Adik Wibowo

Masters Program in Public Health, Faculty of Public Health, Universitas Indonesia

ABSTRACT

Background: The development of antimicrobial resistance and the rising costs due to inappropriate use of antibiotics have become a global health problem. Some strategies have been attempted to rationalize the use of antibiotic therapy. This study aimed to review systematically the rational antibiotic use and patient safety.

Subjects and Method: A systematic review was carried out with PRISMA model by searching published articles from 2013 to 2019, from databases including Scopus and JSTOR. The inclusion criteria of this study are full text, and open access journal.

Results: Areas of rational antibiotic use included quality, prescription error, excessive prescription, prescribing time, first-line drug of choice, non-compliance with medication, and continued treatment. Other areas of concern included effectiveness and efficiency of antibiotics use and its impact on patient satisfaction.

Conclusion: Rational use of antibiotics covers some important areas. It helps improve patient outcomes and safety.

Keywords: antibiotics, outcome, safety, patient

Correspondence:

Regina Destrina Damanik. Masters Program in Public Health, Faculty of Public Health, Universitas Indonesia, Depok, West Java. Email: regina.destrina71@ui.ac.id. Mobile: 082132348612.