

Title: The Effectiveness Of Burmanii (Burmanii Cinnamomum) As An Antibiotic On Salmonella Typhii Bacteria

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Infectious diseases are one of the health problems in the community that are difficult to overcome completely. This type of disease is the most suffered by people in developing countries, including Indonesia. Proper administration of empirical antibiotics for typhoid fever patients is very important, because it can prevent complications and reduce mortality. Chloramphenicol, ampicillin and ciprofloxacin are the first line antibiotic for typhoid fever's treatment. The use of long-term antibiotics can cause resistance can also cause organ damage and immunohipersensitivity. There are problems that arise due to the use of antibiotics and synthetic chemicals, allowing the need for other alternatives in treating typhoid fever. One that is very possible is to use materials from nature (back to nature). In general cinnamon contains essential oils, eugenol, cinnamaldehyde, tannin, calcium oxalate, amber, tanneries, where cinnamaldehyde is the largest component which is about 70% that have antibacterial activity. This study aims to determine the effectiveness of cinnamon (Cinnamomum burmanii) as an antibiotic against Salmonella typhii. This research is a true experimental post test research using the disc diffusion method to see the effectiveness of Cinnamom burmannii as an antimicrobial against Salmonella typhii in vitro. The results showed that the extract of cinnamon burmannii with a concentration of 25%, 50%, 75%, and 100% produced an average diameter of clear zones, respectively 13mm, 20.5 mm, 23.25 mm, and 29 mm. While the diameter of the clear zone of ciprofloxacin is 27 mm and no clear zone in aquadest. Cinnamon extract with a concentration of 100% has the highest clear zone in the treatment group.

Biography

Muhammad Fuad Alamsyah is a third year medical student at Universitas Muslim Indonesia, Makassar, South Sulawesi, Indonesia. He is the President of the Asian Medical Students' Association - University of Muslim Indonesia (AMSA-UMI). PCC (Pre-Conference Competition) 30 EAMSC 2017 Australia as Competitor, National PnP Team of AMSA Indonesia 2016/2017, Indonesian Medical Students' Training and Competition (IMSTC) 2017 Hosted by AMSA-UPH as Participant of Public Poster. National Leadership Training (NLT) 2017 Hosted by AMSA-Trisakti as delegate. National Action Event (NAE) 2017 Hosted by AMSA-UNDIP as Delegate. Indonesian Medical Students' Training and Competition (IMSTC) 2018 Hosted by AMSA-UKRIDA as delegate

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