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COMPARISON OF THREE CHEMOTHERAPY REGIMENS TO THE DECREASE IN LEUKOCYTES AND THE INCIDENCE RATE OF NEUTROPENIA IN PATIENTS WITH NASOPHARYNGEAL CANCER AT DR. HASAN SADIKIN GENERAL HOSPITAL BANDUNG
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INTRODUCTION

Bacilli-related dysentery was first demonstrated by Shiga during 1898, and subsequent research showed that four serogroups (species), Shigella dysenteriae, Shigella flexneri, Shigella boydii, and Shigella sonnei, were responsible for causing this disease [1]. The World Health Organization estimates Shigella to cause at least 80 million cases of bloody diarrhea and 700,000 deaths each year [2]. Almost all infections caused by Shigella occur in developing countries, and the majority of cases and deaths occur among children <5 years old. Diarrheal disease associated with Shigella also occurs among travelers and military forces. S. dysenteriae type I is rarely endemic but can cause disease with severe complications and is historically associated with devastating pandemics with high case fatality rates in all age groups, described for Central America, Central Africa, and Southeast Asia [3].

Shigella ability to invade host cells involves attachment and internalization controlled by a large plasmid which contains multigene virulence factors. The organisms penetrate through the colonic mucosa, invade, and multiply in the colonic epithelium. Bacterial cells preferentially attach and enter through Peyer’s patches by way of M-cells through membrane ruffling and macropinocytosis in a manner similar to Salmonella [4]. The bacteria also produce a very potent toxin (Shiga toxin) that adheres to small intestine receptors and blocks absorption of electrolytes, glucose, and amino acids from the lumen.

Myrmecodia pendans (a member of Myrmecophytes genus), which also locally known by indigenous Papuans as ant-nest plant, is a native plant that mostly grows in Southeast Asia region. Ant-nest has proven to be rich in bioactive constituents such as flavonoids, tocopherols, tannins, and essential oils. This plant is highly valued as an alternative choice for cancer/tumor treatments and an efficacious herbal drug to prevent and cure diarrhea.

MATERIALS AND METHODS

Chemicals and materials

The plant material used in this study was obtained from the stem tuber part of the plant. It is a traditional medicine plant from Wamena, Papua, Indonesia. Ethanol (Merck, Germany), ammonia (Merck, Germany), chloroform (Merck, Germany), hydrochloric acid (Merck, Germany), potassium iodide mercury (Merck, Germany), bismuth potassium iodide (Merck, Germany), magnesium (Merck, Germany), amyl alcohol (Merck, Germany), iron (II) chloride (Merck, Germany), gelatin solution (Merck, Germany), 10% solution of vanillin in concentrated H₂SO₄, acetic acid anhydride in concentrated H₂SO₄, sodium hydroxide (Merck, Germany), distilled water, and dimethyl sulfoxide/dimethyl sulfoxide (DMSO) (Sigma Aldrich, Germany).