

Behaviors of probiotic formulations in aromatic fixed and essential oils and established therapeutic models: In vivo studies of repair of dysbiosis with coconut oil and trace peppermint-lemon-tefarik essential oils and multiprobiotic replacement

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It is known that dysbiosis occurs with the decrease of beneficial bacteria, increase in pathogens and decrease in bacterial diversity. The microbiota in the healthy host, the homeostatic conditions of all organisms, benefit host development and health. However, some important factors such as antibiotic use or unhealthy diet can disrupt the structure of the microbial community. These disruptions can result in the loss of microorganisms that are beneficial to the host. There is increasing evidence that dysbiosis of the gut microbiota is associated with the pathogenesis of both intestinal and extra intestinal disorders. Inflammatory bowel disease, irritable bowel syndrome (IBS) and Small Intestinal Bacterial Overgrowth (SIBO) have the most important place among the intra-intestinal disorders, while metabolic disease tables such as allergy, cardiovascular disease deficiencies and obesity take place at the beginning of the extraintestinal disorders [2]. SIBO is a syndrome characterized by an increased number

of abnormal bacterial species in the small intestine. It is also defined as the clinical and laboratory representation of the relationship between qualitative and/or quantitative changes of the gut microbiota and malabsorption. The duodenum and proximal jejunum normally contain less than 10E+4 CFU per mL of microorganisms. In this study; The therapeutic effects of probiotic bacteria including Akkermancia muciniphila and Lactobasillus gastricus combined with aromatic fixed and essential oils on SIBO will be shared using the "Dysbiosis-Based Rat SIBO (Small Intestine Bacterial Overgrowth) Model".

Biography

Hulya Kayhan is Co-Founder of Art de Huile Pharmacist in Aromatherapy. She was Graduated from Faculty of Pharmacy, Istanbul, Turkey. She gives training on aromatherapies in Worldwide Conferences.

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