TITLE: ANTISSETIC ANALYSIS ON THE MICROBIOTA OF STUDENTS' HANDS IN THE FOOD ENGINEERING COURSE OF THE STATE UNIVERSITY OF MARINGÁ, PR.

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ABSTRACT:

The hands constitute the main route of transmission of microorganisms, and can be transferred from one surface to another, through direct contact (skin to skin), or indirectly through contact with contaminated objects and surfaces, being the greatest risk of cross contamination in food. The objective of this work was to verify the antiseptic action on the microbiota of the hands of students of the Food Engineering Course of the State University of Maringá, Pr., demonstrating the importance of hand hygiene in food production. Thirty students from Food Engineering participated in the study. With the help of an overhead pen, a division was made at the bottom of the Petri plates containing Nutrient Agar medium in 4 equal parts. After, in two plates identified each quadrant with the titles, Control (C); Dirty Hand (DH); Detergent (D); Alcohol 70% (A) and the remaining two with the titles, Control (C); Dirty Hand (DH); Water (H2O) and Iodized Alcohol (IA). Thus, in the quadrant identified as Dirty Hand, the student touched his finger, unwashed (DH), in the Hagar for 1 minute. The student then washed the hands with different procedures and touched the same finger on the quadrant of the identified Agar. Based on the results obtained, it was observed that the lodized alcohol presented as an excellent antiseptic, showing no growth of colonies. In the hand hygiene carried out with detergent and alcohol 70% all the guadrants showed colonies growth, there being a reduction when using alcohol 70%, but not total elimination. Based on the antiseptics used in practice, it can be concluded that the most effective for hand hygiene is lodized alcohol, having antiseptic power of 100% elimination of microorganisms. The study allowed the visualization of an adequate hand hygiene through practices contributing to the students' professional experience.

Keywords: microorganisms, antiseptics, teaching practice