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feces were determined at specified intervals. The efficacy of probiotic was studied in mice with well-established colonization. These mice received probiotic or not (control group). Counts of VRE and total enterococci in feces were determined at specified Intervals throughout the experiment.

Results: At baseline, all animals were colonized with non -Vancomycin resistant enterococci (mean for 7 days 5.7 log10 CFU/g), and Vancomycin resistant were not detectable. Following gastric inoculation with 5 x108 CFU of a clinical isolate of Vancomycin-resistant Enterococcus faecalis and receiving daily oral vancomycin (250 μ g of vancomycin per ml), the strain colonized the gastrointestinal tract of 100% of mice (mean for 7 days 6.2 log10 mean CFU/g). Oral administration of L. rhamnosus GG suppressed growth of all enterococci in feces, including the vancomycinresistant strain (mean 6.2 and 9.4 log10 CFU/g for treatment and control groups, respectively p < 0.05).

Conclusion: Our study demonstrated a significant reduction in the detection of VRE in fecal specimens of mice receiving probiotic and concluded this probiotic can reduce colonization of VRE. This research purposed use of probiotic instead of antibiotics in prevention and treatment of VRE infection.

doi:10.1016/j.ijid.2008.05.525

40.016

Clostridium Difficile-associated Diarrhea with Hematochezia is Associated with Ulcer Formation

Y. Morimoto^{*}, K. Nomura, Y. Tsutsumi, M. Ohshiro, Y. Fujimoto, Y. Kanbayashi, Y. Matsumoto, M. Taniwaki

Kyoto Prefectural University of Medicine, Kyoto, Japan

Objective: Clostridium difficile-associated diarrhea (CDAD) is a well-known iatrogenic infection. Typical endoscopic features include pseudomembranes and intervening normal mucosa. Clinically, diarrhea frequently occurs, but hematochezia is rarely observed. We investigated the background and endoscopic features of CDAD patients with hematochezia.

Patients and Methods: We investigated retrospectively endoscopic and clinical findings of twelve patients who showed evidence of C. difficile toxin A and underwent colonoscopy between April 2002 and July 2007.

Results: Eight patients were diagnosed as having CDAD and four patients with ulcerative colitis. Six of the eight patients with CDAD presented hematochezia, and four of them were diagnosed with hematological malignancies and received anti-cancer chemotherapy. Colonic ulcer was demonstrated in all CDAD patients with hematochezia and bleeding from the ulcer was endoscopically confirmed in all of them.

Conclusions: CDAD with hematochezia is closely associated with ulcer formation. Ulcers are thought to tend to occur during recovery from nadir after anti-cancer treatment. White blood cells may be indispensable for ulcer formation. Physicians should therefore pay attention to the occurrence of colonic ulcer, especially in patients with CDAD during recovery from nadir.

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lococcus aureus During the Manufacture and Ripening of Iranian White Cheese

T. Moosavi^{1,*}, G. Karim², A. Akhondzade Basti³

¹ Islamic Azad University, Garmsar Branch, Tehran, Iran (Islamic Republic of)

² Islamic Azad University, Science and Research Branch, Tehran, Iran (Islamic Republic of)

³ Tehran University, Tehran, Iran (Islamic Republic of) Keywords: Iranian White Cheese; Staphylococcus aureus

The ability of Staphylococcus aureus to grow and enterotoxin production during the manufacture and storage of Iranian White Cheese and also the changes in pH, total solids, moisture and salt contents was studied. As far as microorganism can grow in relatively low temperature, pH, aw and high salt contents, also because this organism is the most important cause of food intoxications which is transmitted to man through dairy products, the possibility of its survival and growth is existed during the time of ripening period. Lyophilized S. aureus (ATCC 6538) was activated by two consecutive cultures in Brain and Heart Infusion Broth. The stock cultures were maintained in BHI Broth containing sterile glycerin and placed in Freezer. To determine the initial inoculum of S. aureus culturing and counting method and spectrophotometry were used. Pasteurized whole cow's milk was inoculated with two levels of bacterium (103 and 105 cfu/ml). Two types of Iranian White Cheese prepared with and without S. aureus (control). In control group samples prepared with and without starter. S. aureus was enumerates during the manufacture and storage period. Selected colonies of S. aureus were confirmed biochemically. Cheese was also examined periodically for total solids, moisture, salt contents and pH values. When the S. aureus counts reached to 106 cfu/ml, the samples were examined for enterotoxin production using ELISA kit. Results showed an increase in the number of S. aureus in the begining of the ripening period and decreased in the middle of the ripening period. In both samples staphylococcal count was higher than the initial level at the end of the ripening period. The pH value in all samples and in the control group (with starter), showed some changes. But in control group (without starter) decreased. In all groups the pH value was lower than the initial pH at end of the ripening period. Total solids decreased in inoculum samples, and increased in control groups. When the staphylococcal count reached to 107 cfu/ml in the first inoculum (105 cfu/ml), enterotoxin A and C were detected, but in the second inoculum (103 cfu/ml) no enterotoxin was detected.

doi:10.1016/j.ijid.2008.05.527

40.018

Enterococcal Prosthetic Joint Infections

N.C. Weightman*, S.T. Long, J. Conroy, K.G. Kerr

Harrogate District Hospital, Harrogate, United Kingdom

Background: Enterococci are an unusual cause of prosthetic joint infection (PJI), and their intrinsic resistance to many antimicrobials make management difficult. Few series