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Safety of students' meals served in a kitchen of Alexandria university hostels

Mohamed Fawzi*, Naglaa Farouk Gomaa*, Adel Abdel Halim Omara* Mona Hassan Ahmed-

Abstract: A total of 69 food handlers were interviewed to assess their food safety knowledge where a pre-designed questionnaire was filled, among them fifty-five were observed for their food handling practices where a food sanitation checklist was filled. A total of 42 food samples were collected during serving for micobiological analysis. The majority of food handlers were males representing 89.9% compared to seven females [10.1%]. The mean age of the interviewed food handlers was 39.39 ± 10.94 years. Most of the interviewed food handlers showed satisfactory knowledge concerning personal hygiene, food equipment and utensils. food premises, insect control and waste disposal as well as total food safety parameters comprising 72.5%, 56.5%, 92.8%, 79.7% and 53.6%; respectively, while most of them were fair in their knowledge concerning food contamination, food-borne diseases and food handling parameters comprising 58.0%, 62.3% and 56.5%; respectively. Most of the observed food handlers were fair in their total food handling practices, personal hygiene, as well as their practices concerning cleaning of equipment and utensils and handling of cooked foods comprising 94.5%, 96.4%, 71.4% and 53.8% of the observed handlers; respectively, while most of them were classified as good for their cooking practice [88.2%] and bad for their practice concerning handling of raw materials [78.3%]. The highest mean aerobic mesophilic count [1.6×10⁶ CFU/g], coliform count [1.2×10⁴ m.o./g] and Staphylococcal count [1.2×10⁴ CFU/d] were found among green salad samples, in the meantime the lowest mean coliform count was found among cooked rice, cooked vegetables, cooked macaroni and roasted kofta where a mean count of 2, 2, 4 and 5 m.o./g was found; respectively. On-job training programs should be launched to food handlers and food samples should be collected periodically from the served meals to assess their safety.

INTRODUCTION

essential for proper nutrition. The food supply must have an appropriate nutrient content Foodservice operations are frequent and it must be available in sufficient variety and quality. It must not endanger consumer's health through chemical, biological or other contaminants¹

There are microbiological hazards an A safe food supply of adequate quality is risks associated with preparation and storac of foods in foodservice establishment identified as places where mishandling foods has led to outbreaks of foodborn diseases. Food handlers and consumers a important targets in the fight again

*Nutrition Department [Food Hygiene and Control]

† Department of Biostatistics, High Institute of Public Health, Alexandria University