Education Instruments for Foodborne outbreaks prevention

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Introduction

Foodborne outbreaks (FBO) represent an important cause of morbidity and mortality worldwide. Their epidemiologic investigation allows us to identify their risk and contributive factors as scientific evidence to work preventively with the younger population, increasing their health literacy on FBO prevention.

Purpose

Develop food safety educational materials for high school, for teacher’s level, to contribute to FBO prevention.

Material and Methods

A. Analysis of scientific publications about microbiological risk analysis associated to food consumption, in order to compile and define the concepts related to food safety: food, hazard, risk, FBO and its epidemiology, surveillance and control1-7.

B. Identification of food hazards and unsafe practices representing the contributing factors to FBO that occurred in Portugal and in Europe 2014-2016, by analysis of their epidemiologic investigation information 8-14.


D. Elaboration of School Educational Materials using scientific language adapted to the High School curricula and make it available to schools on the website of the National Institute of Health Doutor Ricardo Jorge IP.

Results

School Educational Materials

- **Powerpoint presentation 1**: theoretical foundation of concepts regarding FBO prevention (food, hazard, risk, FBO and its epidemiology, surveillance and control) (Figure 1. examples of some slides).

- **Powerpoint presentation 2**, **Flyer** (Figure 2.), **Poster** and **Learning assessment questionnaire of students after class**: consumer good practices for FBO prevention, from buying food to its consumption.

Conclusions

Analysis of data from FBO epidemiologic investigation is useful for producing scientific evidence on their risk factors, which can guide the production of materials that support targeted interventions to students, in order to promote good food safety practices for FBO burden minimization.

References

11. FAO/WHO—The Rapid Risk System for Food and Foodborne Outbreaks—2015 annual report

Figure 1. Powerpoint presentation 1: examples of some slides

Figure 2. Flyer: consumer good practices for FBO prevention

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