

# 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

- 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 control<sup>1-7</sup>.
- 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<sup>9-14</sup>.
- Identification of Good Practices for FBO prevention.
- Elaboration of School Educative 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.

## 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.

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## Results

### School Educative 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).

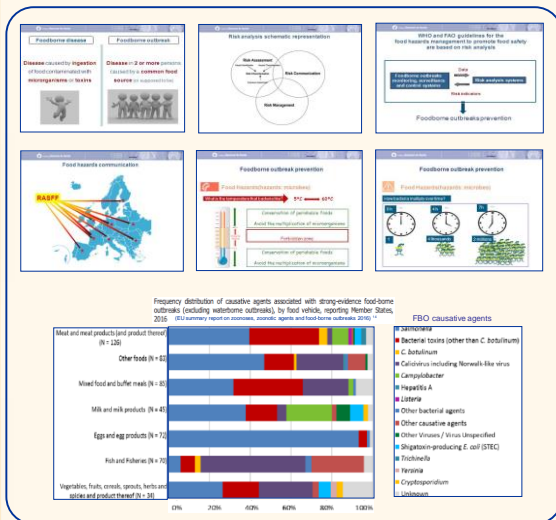


Figure 1. Powerpoint presentation 1: examples of some slides

- 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.



Figure 2. Flyer : consumer good practices for FBO prevention