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Food Borne Bacterial Diseases Due to Consumption of Meat, Fish and Poultry Products

Shymaa Shaltout¹ and Fahim Shaltout²

¹Faculty of Medicine- KasrAlainy, Cairo University, Egypt.

²Food Control Department, Faculty of Veterinary Medicine, BenhaUniversity, Benha, Egypt

*Corresponding author: Fahim Shaltout, Food Control Department, Faculty of Veterinary Medicine, BenhaUniversity, Benha, Egypt

Abstract

The food borne Bacterial Diseases due to consumption of the Meat and the Poultry pose significant health risks to onsumers worldwide. The consumption of the contaminated animal products can lead to various illnesses, ranging from mild gastrointestinal discomfort to severe, life-threatening conditions. The most common bacterial diseases associated with the consumption of the meat and the poultry, including their sources, transmission routes, symptoms, prevention, and control measures. The understanding these food borne diseases is crucial for ensuring the food safety and the implementing effective preventive strategies to protect the public health.

Keywords: Bacterial diseases, meat, poultry, consumers

Introduction

Foodborne Bacterial Diseases due to consumption of the Meat and the Poultry cause significant risks to the public health. The Salmonellosis, the Campylobacteriosis, the E.coliinfections, and the listeriosis are among the most common bacterial diseases associated with these food products (86,87,88,89,90,91,92,and 93). The consumers should be educated about the risks associated with the undercooked or the raw meat and the poultry and encouraged to practice the safe food handling and preparation (1,2,3,4,5 and 6). Additionally, the government regulations and the industry standards play a vital role in ensuring that meat and poultry production facilities adhere to strict hygiene practices and implement effective control measures against the bacterial contamination (7,8,9,10,11 and 12).

The Salmonellosis

Salmonellosis is one of the most prevalent bacterial diseases associated with the meat and the poultry. The Salmonellosis is caused by the Salmonella bacteria, which are commonly found in the intestinal tracts of the animals (78,79,80,81,82,83,84 and 85). The contamination of the meat and the poultry products can occur during slaughtering and processing, primarily through the fecal contamination. Consuming the undercooked or the raw contaminated meat and the poultry can lead to the salmonellosis in the humans (13, 18). **Symptoms** 14.15.16.17 and salmonellosis include diarrhea, the abdominal cramps, the fever, and the vomiting. In severe cases. The Salmonellosis can result in dehydration and hospitalization (70,71,72, 73,74,75,76 and 77).

Prevention and control measures of Salmonellosis involve the proper cooking and handling of the meat and the poultry, the strict hygienic practices during the processing, and the regular monitoring of the production facilities for the Salmonella contamination (19,20,21,22,23 and 24).

The Campylobacteriosis

The Campylobacteriosis is another common bacterial disease associated with the consumption of the contaminated meat and poultry. The Campylobacteriosis is

caused by the Campylobacter bacteria, which are often found in the intestines of the animals, particularly the poultry (94,95,96,97,98,99,100,101 and 102). Cross-contamination during the processing and the inadequate cooking are the main sources of the Campylobacter contamination in the meat and the poultry products (62,63,64,65, 66,67,68 and 69). The symptoms of the campylobacteriosis include the diarrhea, sometimes bloody, the abdominal pain, the fever, and the nausea. While the most cases are selflimiting, severe infections can occur, especially in the vulnerable populations (103,104,105,106,107,108, 109 and 110). The preventive measures include thorough cooking of the meat and the poultry, separation of the raw and cooked foods, and the proper sanitation practices in processing facilities (25,26,27,28,29,30 and 31).

The Escherichiacoli (E.coli) Infections

Certain strains of the Escherichia coli (E. coli), such as E. coli O157:H7, are known to cause severe gastrointestinal illnesses in humans. Contamination of the meat and the poultry with E. coli can occur during the slaughtering process, primarily due to fecal contamination (54,55,56,57, 58,59,60 and 61).

Consumption of the undercooked or the raw contaminated products can lead to E. coli infections. Symptoms of E. coli infections include diarrhea (often bloody), abdominal cramps, and sometimes, kidney failure. Preventive measures involve thorough cooking of the meat and poultry, proper hygiene practices during processing, and the proper sanitation of production facilities (32,33,34,35,36,37 and 38).

Listeriosis

Listeriosis is caused by bacterium Listeria monocytogenes and is primarily associated with ready-to-eat meat poultry products. Listeria contaminate the meat and poultry during the processing, and unlike many other bacteria, Listeria can grow at refrigerator temperatures (39,40,41,42,43,44,45 and 46). The Listeriosis can lead to severe symptoms, especially in pregnant women, the elderly, and individuals with weakened immune systems. Symptoms include fever, muscle aches, nausea, and, in severe cases, meningitis or blood infection (111,112, 113,114, 115 and 116). The preventive measures of the Listeriosis include proper cooking and handling of the meat and the poultry, avoiding cross-contamination, and thorough the sanitation of the processing equipment and the facilities (47,48,49, 50,51,52 and 53).

Conclusion

Food borne Bacterial Diseases due to consumption of the Meat and the Poultry prevention and control measures, such has thorough cooking, the proper sanitation practices, and the adherence to the food safety guidelines, are crucial to minimizing the risk of Food borne Bacterial Diseases due to the consumption of the Meat and the Poultry. By prioritizing the food safety measures at every stage of the supply chain, peoples can reduce the incidence of bacterial diseases in theme at and the poultry, safeguard the public health, and promote safer consumption practices.

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