Fahim A. Shaltout*

Review Article

Hazards causing human food poisoning

Fahim A. Shaltout

Food Control Department, Faculty of Veterinary Medicine, Benha University, Egypt.

*Corresponding Author: Fahim A. Shaltout, Food Control Department, Faculty of Veterinary Medicine, Benha University, Egypt.

Received Date: January 20, 2023; Accepted Date: January 29, 2023; Published Date: February 08, 2023

Citation: Fahim A. Shaltout, (2024), Hazards causing human food poisoning, *J Cancer Research and Cellular Therapeutics*; 8(1): DOI: 10.31579/2690-8794/183

Copyright: © 2024, Fahim A. Shaltout. this is an open-access article distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.

Abstract

For confirming suitability of food products for human consumption it should be evaluated for hazards causing human food poisoning as microbial, fungal and parasitic contamination. Consumption of infected food products containing hazards causing human food poisoning could affect human health and lead to spread of pathogens. Hazards causing human food poisoning as Salmonella spp. is pathogenic to human when consumed via contaminated food. Human food poisoning, also called foodborne illness, is an infection or irritation of the digestive tract that spreads through food or drinks. Hazards causing human food poisoning is most often acute, meaning it happens suddenly and lasts a short time. Most cases of food poisoning last less than a week, and most people get better on their own without treatment. In some cases, human food poisoning can last longer or lead to dangerous complications.

Keywords: human food poisoning, hazard, viruses, bacteria, parasites

Introduction

The more susceptible people to be affected with hazards causing human food poisoning:

Although anyone can get food poisoning, some people are more susceptible to get food poisoning than others, including infants and children, pregnant women and their fetuses, older adults and people with weak immune systems. People in these groups are also more likely to have severe clinical pictures or complications of food poisoning. Food safety is especially important for people in these groups. Food safety for people who are more likely to get food poisoning and have complications (1-6,106).

Complications of hazards causing human food poisoning:

In some cases, human food poisoning can lead to dehydration, hemolytic uremic syndrome, or other complications. However, dangerous complications of hazards causing food poisoning are uncommon. In most cases, human food poisoning lasts only a short time, and most people recover without developing complications (7-11,107).

Dehydration due to hazards causing human food poisoning

Dehydration is the most common complication of hazards causing human food poisoning. When human food poisoning causes vomiting or diarrhea, the body loses fluids and electrolytes (12-17,108). If the body doesn't replace those fluids and electrolytes, the body may become dehydrated. When the body is dehydrated, the body doesn't have enough fluid and electrolytes to work properly (18-22,109). Dehydration is especially Auctores Publishing LLC – Volume 8(1)-183 www.auctoresonline.org ISSN: 2640-1053

dangerous in children, older adults, and people with weakened immune systems. If the body is dehydrated, see a right away to prevent dangerous health problems. Without treatment, dehydration can lead to problems such as organ damage, shock, coma, or even death (23- 28,110).

Hemolytic uremic syndrome due to hazards causing human food poisoning:

Hemolytic uremic syndrome is a kidney condition that happens when red blood cells are destroyed and block the kidneys' filtering system. If the kidneys stop working, the body has acute kidney injury the sudden and temporary loss of kidney function. The most common cause of HUS is infection with a strain of Escherichia coli (E. coli) bacterium called E. coli O157:H7, although other bacteria and viruses may also be hazards causing human food poisoning cause this condition. Hemolytic uremic syndrome is most common in children less than five years age (29-35 and 111). In some cases, hazards causing human food poisoning may lead to dangerous health problems such as health problems during pregnancy and pregnancy complications. Some types of human food poisoning during pregnancy can cause complications, such as dehydration, for the pregnant woman or can affect the fetus. For example, human food poisoning by the bacterium Listeria can cause miscarriage or stillbirth (36-41 and 112). Hazards causing human food poisoning as bacteria or viruses, most commonly Campylobacter jejuni. Irritable bowel syndrome, which may

occur after human food poisoning caused by various bacteria, viruses, or parasites. problems breathing due to botulism a rare type of human food poisoning caused by *Clostridium botulinum* and sometimes by *Clostridium butyricum* or *Clostridium baratii* and some forms of fish and shellfish poisoning, which affect the nervous system and may paralyze the muscles that control breathing. Reactive arthritis, which may occur after human food poisoning by certain bacteria, viruses, and parasites, including *Campylobacter jejuni* and Salmonella (42-47,113).

Clinical pictures of hazards causing human food poisoning

If the body has food poisoning, chances are it won't go undetected. Clinical pictures can vary depending on the source of the infection. Common cases of human food poisoning will typically include a few of the following clinical pictures abdominal cramps, diarrhea, nausea, vomiting, loss of appetite, mild fever, weakness and headache (48, - 53,114). clinical pictures of potentially life threatening human food poisoning include diarrhea that lasts for more than 3 days, a fever over 38.9°C, difficulty seeing or speaking, clinical pictures of severe dehydration, which may include dry mouth, passing little to no urine, and difficulty keeping fluids down, bloody urine, If the body experience any of these clinical pictures medical treatment immediately (54-59,115).

Duration of hazards causing human food poisoning

The length of time it takes for clinical pictures to appear depends on the source of the infection, but it can range from as little as half an hour, to as long as two months (60-65,116).

Hazards causing human food poisoning

Most hazards causing human food poisoning can be traced to one of three major causes' bacteria, parasites, or viruses. These pathogens can be found on almost all of the food humans eat. However, heat from cooking usually kills pathogens on food before it reaches our plate. Foods eaten raw are common sources of human food poisoning because they don't go through the cooking process (66-71,105). Occasionally, food will come in contact with the hazards causing human food poisoning in fecal matter or vomit. This is most likely to occur when an ill person prepares food and doesn't wash their hands and personal hygiene before cooking. Meat, fish, and poultry products are frequently contaminated. Drinking water may also be contaminated with hazards causing human food poisoning (72-76,104). Hazards causing food poisoning as bacteria are by far the most common cause of human food poisoning. Bacterial causes of human food poisoning include E. coli, in particular Shiga toxin-producing E. coli (STEC), Listeria monocytogenes, Salmonella, Campylobacter, Clostridium botulinum, Staphylococcus aureus, Shigella and Vibrio vulnificus When thinking of dangerous bacteria, names such as E. coli and Salmonella come to mind for good reason. Salmonella is the biggest bacterial cause of human food poisoning. Estimated cases of human food poisoning, including hospitalizations, can be traced to salmonella infection. Campylobacter and C. botulinum are two lesser-known and potentially lethal bacteria that can reach the food (77-82 and 103). hazards causing human food poisoning as parasites isn't as common as human food poisoning caused by bacteria, but parasites that spread through human food are still very dangerous. They include Toxoplasma gondii, Giardia lamblia, various tapeworms, such as Taenia saginata (beef tapeworm), Taenia solium (pork tapeworm), Diphyllobothrium latum (fish tapeworm), Cryptosporidium, Ascaris lumbricoides, a type of roundworm, flukes (flatworms), such as Opisthorchiidae (liver fluke) and Paragonimus (lung fluke), pinworms, or Enterobiasis and Trichinella (83-87 and 102). Hazards causing human food poisoning as toxoplasmosis is a leading cause of death attributed to human food poisoning. Hazards causing human food poisoning as Toxoplasma gondii is also found in cat litter boxes. Hazards causing human food poisoning as Parasites can live in the digestive tract and could not be detected for several years. Peoples affected with weakened immune systems and pregnant women's are at risk of more dangerous side effects if certain hazards causing human food poisoning as parasites take up residence in their intestines (88-93,101,117). Hazards causing human food poisoning as virus, such as norovirus, which is sometimes known as Norwalk virus, rotavirus, astrovirus, sapovirus and hepatitis A virus (94-100,118,119).

Conclusion:

The present review article was made for hazards causing food poisoning. The human food protection from the hazards causing food poisoning is better than treatment. Nobody should be exposed to hazards causing human food poisoning. People spreading hazards causing human food poisoning on crops, in homes, or in gardens should be adequately protected. People not directly involved in the spread of hazards causing human food poisoning should stay away from the area during and just after a spread. Human food that is sold or donated, such as food aid, should comply with food regulations. People who grow their own food should using food masks as necessary. Consumers can further limit their intake of hazards causing human food poisoning by peeling or washing fruit and vegetables, which also reduces other food borne hazards, such as harmful bacteria. Pregnant women and infants should apply particular care to determine appropriate re-entry times for hazards causing human food poisoning. Thorough cooking of the meat.

References:

- Shaltout, F.A., Riad,E.M ., and AbouElhassan, Asmaa , A(2017): prevalence Of Mycobacterium Tuberculosis In Imported cattle Offals And Its lymph Nodes. Veterinary Medical Journal -Giza (VMJG), 63(2): 115 – 122.
- Shaltout, F.A., Riad,E.M., and Asmaa Abou-Elhassan (2017): Prevalence Of Mycobacterium Spp . In Cattle Meat and Offal's Slaughtered In And Out Abattoir. Egyptian Veterinary medical Association, 77(2): 407 – 420.
- Abd Elaziz, O., Fatin S. Hassanin, Fahim A. Shaltout and Othman A. Mohamed (2021): Prevalence of Some Foodborne Parasitic Affection in Slaughtered Animals in Loacal Egyptian Abottoir._Journal of Nutrition Food Science and Technology 2(3): 1-5.
- Abd Elaziz, O., Fatin, S Hassanin, Fahim, A Shaltout, Othman, A Mohamed (2021): Prevalence of some zoonotic parasitic affections in sheep carcasses in a local abattoir in Cairo, Egypt. Advances in Nutrition & Food Science 6(2): 6(2): 25-31.
- Al Shorman, A.A.M.; Shaltout, F.A. and hilat,N (1999):Detection of certain hormone residues in meat marketed in Jordan.Jordan University of Science and Technology, 1st International Conference on Sheep and goat Diseases and Productivity, 23-25 October, 1999.
- Ebeed Saleh, Fahim Shaltout, Essam Abd Elaal (2021); Effect of some organic acids on microbial quality of dressed cattle carcasses in Damietta abattoirs, Egypt. Damanhour Journal of Veterinary Sciences 5(2): 17-20.
- Edris A, Hassanin, F. S; *Shaltout, F.A.*, Azza H Elbaba and Nairoz M Adel (2017): Microbiological Evaluation of Some Heat-Treated Fish Products in Egyptian Markets.*EC Nutrition* 12.3 (2017): 124-132.

- Edris, A., Hassan, M.A., Shaltout, F.A. and Elhosseiny , S(2013): Chemical evaluation of cattle and camel meat.BENHA VETERINARY MEDICAL JOURNAL, 24(2): 191-197 .
- Edris, A.M., Hassan, M.A., Shaltout, F.A. and Elhosseiny, S(2012): Detection of E.coli and Salmonella organisms in cattle and camel meat. BENHA VETERINARY MEDICAL JOURNAL, 24(2): 198-204.
- Edris A.M.; Hemmat M. I., Shaltout F.A.; Elshater M.A., Eman F.M.I. (2012): STUDY ON INCIPIENT SPOILAGE OF CHILLED CHICKEN CUTS-UP. BENHA VETERINARY MEDICAL JOURNAL, VOL. 23, NO. 1, JUNE 2012: 81-86.
- Edris A.M.; Hemmat M.I.; Shaltout F.A.; Elshater M.A., Eman, F.M.I. (2012): CHEMICAL ANALYSIS OF CHICKEN MEAT WITH RELATION TO ITS QUALITY. BENHA VETERINARY MEDICAL JOURNAL, 23(1): 87-92.
- 12. Edris, A.M.; Shaltout, F.A. and Abd Allah, A.M. (2005): Incidence of Bacillus cereus in some meat products and the effect of cooking on its survival. Zag. Vet. J.33 (2):118-124.
- 13. Edris, A.M.; Shaltout, F.A. and Arab, W.S. (2005): Bacterial Evaluation of Quail Meat. Benha Vet. Med.J.16 (1):1-14.
- Edris, A.M.; Shaltout, F.A.;Salem, G.H. and El-Toukhy,E.I. (2011): Incidence and isolation of Salmonellae from some meat products.Benha University ,Faculty of Veterinary Medicine , Fourth Scientific Conference 25-27th May 2011Veterinary Medicine and Food Safety) 172-179 benha , Egypt.
- Edris AA, Hassanin, F. S; *Shaltout, F.A.*, Azza H Elbaba and Nairoz M Adel. (2017): Microbiological Evaluation of Some Heat-Treated Fish Products in Egyptian Markets. *EC Nutrition* 12.3 (2017): 134-142.
- Edris, A.M.; Shaltout, F.A.;Salem, G.H. and El-Toukhy,E.I. (2011): Plasmid profile analysis of Salmonellae isolated from some meat products. Benha University, Faculty of Veterinary Medicine, Fourth Scientific Conference 25-27th May 2011Veterinary Medicine and Food Safety)194-201 benha, Egypt.
- Ragab A, Abobakr M. Edris, Fahim A.E. Shaltout, Amani M. Salem (2022): Effect of titanium dioxide nanoparticles and thyme essential oil on the quality of the chicken fillet. BENHA VETERINARY MEDICAL JOURNAL41(2): 38-40.
- Hassan, M.A, Shaltout, F. A, Arfa M.M, Mansour A.H and Saudi, K. R (2013): BIOCHEMICAL STUDIES ON RABBIT MEAT RELATED TO SOME DISEASES. BENHA VETERINARY MEDICAL JOURNAL 25(1):88-93.
- Hassan, M. A and Shaltout, F.A. (1997): Occurrence of Some Food Poisoning Microorganisms In Rabbit Carcasses Alex.J. Vet.Science, 13(1):55-61.
- Hassan M, Shaltout FA* and Saqur N (2020): Histamine in Some Fish Products. Archives of Animal Husbandry & Dairy Science 2(1): 1-3.
- Hassan, M.A and Shaltout, F.A. (2004): Comparative Study on Storage Stability of Beef, Chicken meat, and Fish at Chilling Temperature. Alex.J. Vet.Science, 20(21):21-30.
- 22. Hassan, M.A; Shaltout, F.A.; Arafa, M.M.; Mansour, A.H. and Saudi, K.R. (2013): Biochemical studies on rabbit meat related to some diseases. Benha Vet. Med.J.25 (1):88-93.
- 23. Hassan, M.A; Shaltout, F.A.; Maarouf, A.A. and El-Shafey, W.S. (2014): Psychrotrophic bacteria in frozen fish with special

reference to pseudomonas species. Benha Vet. Med.J.27 (1):78-83.

- Hassan, M.A; Shaltout, F.A.; Arafa, M.M.; Mansour, A.H. and Saudi, K.R. (2013): Bacteriological studies on rabbit meat related to some diseases Benha Vet. Med.J.25 (1):94-99.
- Hassanin, F. S; Hassan, M.A., Shaltout, F.A., Nahla A. Shawqy and 2Ghada A. Abd-Elhameed (2017): Chemical criteria of chicken meat. *BENHA VETERINARY MEDICAL JOURNAL*, 33(2):457-464.
- Hassanin, F. S; Hassan, M.A.; Shaltout, F.A. and Elrais-Amina, M (2014): CLOSTRIDIUM PERFRINGENS IN VACUUM PACKAGED MEAT PRODUCTS. BENHA VETERINARY MEDICAL JOURNAL, 26(1):49-53.
- 27. Hassanien, F.S.; Shaltout, F.A.; Fahmey, M.Z. and Elsukkary, H.F. (2020): Bacteriological quality guides in local and imported beef and their relation to public health. *Benha Veterinary Medical Journal* 39: 125-129.
- Hassanin, F. S; Shaltout, F.A. and, Mostafa E.M(2013): Parasitic affections in edible offal. *Benha Vet. Med.J.*25 (2):34-39.
- Hassanin, F. S; Shaltout, F.A., Lamada, H.M., Abd Allah, E.M. (2011): THE EFFECT OF PRESERVATIVE (NISIN) ON THE SURVIVAL OF LISTERIA MONOCYTOGENES. BENHA VETERINARY MEDICAL JOURNAL (2011)-SPECIAL ISSUE [I]: 141-145.
- Khattab, E., Fahim Shaltout and Islam Sabik (2021): Hepatitis A virus related to foods. *BENHA VETERINARY MEDICAL JOURNAL* 40(1): 174-179.
- Saad M. Saad, Fahim A. Shaltout, Amal A. A. Farag & Hashim F. Mohammed (2022): Organophosphorus Residues in Fish in Rural Areas. *Journal of Progress in Engineering and Physical Science* 1(1): 27-31.
- Saif,M., Saad S.M., Hassanin, F. S; Shaltout FA, Marionette Zaghloul (2019): Molecular detection of enterotoxigenic Staphylococcus aureus in ready-to-eat beef products. *Benha Veterinary Medical Journal* 37 (2019) 7-11.
- Saif,M., Saad S.M., Hassanin, F. S; *Shaltout, F.A.*, Marionette Zaghlou (2019); Prevalence of methicillin-resistant Staphylococcus aureus in some ready-to-eat meat products. Benha *Veterinary Medical Journal* 37 (2019) 12-15.
- Farag, A. A., Saad M. Saad¹, Fahim A. Shaltout1, Hashim F. Mohammed (2023a): Studies on Pesticides Residues in Fish in Menofia Governorate. *Benha Journal of Applied Sciences*, 8(5): 323-330.
- Farag, A. A., Saad M. Saad¹, Fahim A. Shaltout1, Hashim F. Mohammed (2023 b): Organochlorine Residues in Fish in Rural Areas. *Benha Journal of Applied Sciences*, 8 (5): 331-336.
- 36. *Shaltout, F.A.*, Mona N. Hussein, Nada Kh. Elsayed (2023): Histological Detection of Unauthorized Herbal and Animal Contents in Some Meat Products. *Journal of Advanced Veterinary Research* 13(2): 157-160.
- Shaltout, F. A., Heikal, G. I., Ghanem, A. M. (2022): Mycological quality of some chicken meat cuts in Gharbiya governorate with special reference to Aspergillus flavus virulent factors. *benha veteriv medical journal veterinary* 42(1): 12-16.
- Shaltout, F.A., Ramadan M. Salem, Eman M. Eldiasty, Fatma A. Diab (2022): Seasonal Impact on the Prevalence of Yeast Contamination of Chicken Meat Products and Edible Giblets. *Journal of Advanced Veterinary Research* 12(5): 641-644.

Copy rights @ Fahim A. Shaltout,

J. Cancer Research and Cellular Therapeutics

- Shaltout, F.A., Abdelazez Ahmed Helmy Barr and Mohamed Elsayed Abdelaziz (2022): Pathogenic Microorganisms in Meat Products. *Biomedical Journal of Scientific & Technical Research* 41(4): 32836-32843.
- 40. Shaltout, F.A., Thabet, M.G. and Koura, H.A. (2017). Impact of Some Essential Oils on the Quality Aspect and Shelf Life of Meat. *J Nutr Food Sci.*, 7: 647.
- Shaltout, F.A., Islam Z. Mohammed², El -Sayed A. Afify (2020): Bacteriological profile of some raw chicken meat cuts in Ismailia city, Egypt.Benha Veterinary Medical Journal 39 (2020) 11-15.
- Shaltout, F.A., Islam, Z. Mohammed²., El -Sayed A. Afify(2020): Detection of E. coli O157 and Salmonella species in some raw chicken meat cuts in Ismailia province, Egypt. Benha Veterinary Medical Journal 39 (2020) 101-104.
- Shaltout, F.A., E.M. El-diasty and M. A. Asmaa- Hassan (2020): HYGIENIC QUALITY OF READY TO EAT COOKED MEAT IN RESTAURANTS AT Cairo. Journal of Global Biosciences 8(12): 6627-6641.
- Shaltout, F.A., Marrionet Z. Nasief, L. M. Lotfy, Bossi T. Gamil(2019): Microbiological status of chicken cuts and its products. Benha Veterinary Medical Journal 37 (2019) 57-63.
- 45. *Shaltout, F.A.* (2019): Poultry Meat. Scholarly Journal of Food and Nutrition 22 1-2.
- 46. *Shaltout, F.A.* (2019): Food Hygiene and Control. Food Science and Nutrition Technology 4(5): 1-2.
- Hassanin, F. S; *Shaltout, F.A.*, Seham N. Homouda and Safaa M. Arakeeb(2019): Natural preservatives in raw chicken meat. Benha *Veterinary Medical Journal* 37 (2019) 41-45.
- Hazaa, W. , *Shaltout, F.A.*, Mohamed El-Shate(2019): Prevalence of some chemical hazards in some meat products. Benha *Veterinary Medical Journal* 37 (2) 32-36.
- Hazaa, W, Shaltout, F.A., Mohamed El-Shater(2019): Identification of Some Biological Hazards in Some Meat Products. Benha Veterinary Medical Journal 37 (2) 27-31.
- Gaafar, R., Hassanin, F. S; *Shaltout, F.A.*, Marionette Zaghloul (2019): Molecular detection of enterotoxigenic Staphylococcus aureus in some ready to eat meat-based sandwiches. Benha *Veterinary Medical Journal* 37 (2) 22-26.
- Gaafar, R., Hassanin, F. S; *Shaltout, F.A.*, Marionette Zaghloul(2019): Hygienic profile of some ready to eat meat product sandwiches sold in Benha city, Qalubiya Governorate, Egypt. Benha *Veterinary Medical Journal* 37 (2) 16-21.
- Saad S.M., *Shaltout, F.A.*, Nahla A Abou Elroos, Saber B Elnahas (2019), Antimicrobial Effect of Some Essential Oils on Some Pathogenic Bacteria in Minced Meat. J Food Sci Nutr Res. 2019; 2 (1): 012-020.
- 53. Saad S.M., *Shaltout, F.A.*, Nahla A Abou Elroos2 and Saber B El-nahas (2019): Incidence of *Staphylococci* and *E. coli* in Meat and Some Meat Products. *EC Nutrition* 14.6 (2019).
- Saad S.M., Hassanin, F. S.; *Shaltout, F.A.*, Marionette Z Nassif, Marwa Z Seif. (2019: Prevalence of Methicillin-Resistant *Staphylococcus Aureus* in Some Ready-to-Eat Meat Products. American Journal of Biomedical Science & Research 4(6):460-464.
- 55. Shaltout, Fahim (2019): Pollution of Chicken Meat and Its Products by Heavy Metals. Research and Reviews on Healthcare: *Open Access Journal*, 4, 3(381-3382).

- Shaltout, F. A.; E.M EL-diasty; M. S. M Mohamed (2018): Effects of chitosan on quality attributes fresh meat slices stored at 4 C. *BENHA VETERINARY MEDICAL JOURNAL*, VOL. 35, NO. 2: 157-168.
- 57. Shaltout and Abdel-Aziz, 2004: *Salmonella enterica* serovar Enteritidis in poultry meat and their epidemiology. *Vet. Med. J. Giza*, 52 (2004), pp. 429-436.
- Shaltout, F.A., Hala F El-Shorah, Dina I El Zahaby, Lamiaa M Lotfy (2018): Bacteriological Profile of Chicken Meat Products. SciFed Food & Dairy Technology Journal, 2:3.
- Shaltout, F.A., Mohamed, A.H. El-Shater., Wafaa Mohamed Abd El-Azi (2015): Bacteriological assessment of Street Vended Meat Products sandwiches in kalyobia Governorate. BENHA VETERINARY MEDICAL JOURNAL, 28(2): 58-66.
- 60. Shaltout, F.A., Mohamed A El shatter and Heba M Fahim (2019): Studies on Antibiotic Residues in Beef and Effect of Cooking and Freezing on Antibiotic Residues Beef Samples. Scholarly Journal of Food and Nutritionm 2(1) 1-4
- Shaltout FA, Zakaria IM and Nabil ME. (2018): Incidence of Some Anaerobic Bacteria Isolated from Chicken Meat Products with Special Reference to *Clostridium perfringens*. *Nutrition and Food Toxicology* 2.5 (2018): 429-438.
- Shaltout FA, Ahmed A A Maarouf and Mahmoud ES Elkhouly. (2017): Bacteriological Evaluation of Frozen Sausage. *Nutrition and Food Toxicology* 1.5; 174-185.
- Shaltout FA, El-Toukhy EI and Abd El-Hai MM. (2019): Molecular Diagnosis of *Salmonellae* in Frozen Meat and Some Meat Products. Nutrition and Food Technology Open Access 5(1): 1-6.
- 64. *Shaltout, F.A., A.M.Ali and S.M.Rashad (2016):* Bacterial Contamination of Fast Foods. Benha Journal of Applied Sciences (BJAS) 1 (2)45-51.
- Shaltout, F.A., Zakaria. I. M., Jehan Eltanani, Asmaa. Elmelegy(2015): Microbiological status of meat and chicken received to University student hostel. BENHA VETERINARY MEDICAL JOURNAL, 29(2):187-192, DECEMBER, 2015.
- Saad,S.M.;Edris, A.M.; Shaltout,F.A. and Edris, Shimaa(2012): Isolation and identification of salmonellae and E.coli from meat and poultry cuts by using A.multiplex PCR. Benha Vet. Med.J.special issue 16-26.
- Saad, S.M. and Shaltout, F.A. (1998): Mycological Evaluation of camel carcasses at Kalyobia Abattoirs. Vet.Med.J. Giza,46(3):223-229.
- Saad S.M., *Shaltout, F.A.*, Nahla A Abou Elroos, Saber B Elnahas. 2019: Antimicrobial Effect of Some Essential Oils on Some Pathogenic Bacteria in Minced Meat. J Food Sci Nutr Res. 2019; 2 (1): 012-020.
- Saad S.M., Hassanin, F. S; *Shaltout, F.A.*, Marionette Z Nassif, Marwa Z Seif. (2019): Prevalence of Methicillin-Resistant *Staphylococcus Aureus* in Some Ready-to-Eat Meat Products. American Journal of Biomedical Science & Research 4(6):460-464.
- 70. Saad S.M., *Shaltout, F.A.*, Nahla A Abou Elroos and Saber B Elnahas. (2019): Incidence of *Staphylococci* and *E. coli* in Meat and Some Meat Products. *EC Nutrition* 14.6 (2019).
- 71. Shaltout FA, Riad EM, TES Ahmed and AbouElhassan A. (2017): Studying the Effect of Gamma Irradiation on Bovine

Offal's Infected with *Mycobacterium tuberculosis* Bovine Type. Journal of Food Biotechnology Research 1 (6): 1-5.

- Shaltout FA, Zakaria IM and Nabil ME. (2018): Incidence of Some Anaerobic Bacteria Isolated from Chicken Meat Products with Special Reference to *Clostridium perfringens*. *Nutrition and Food Toxicology* 2.5 (2018): 429-438.
- 73. Shaltout FA, Mohamed, A.Hassan and Hassanin, F. S(2004): THERMAL INACTIVATION OF ENTEROHAEMORRHAGIC ESCHERICHIA COLI 0157:H7 AND ITS SENSTIVITY TO NISIN AND LACTIC ACID CULTURES. Irst Ann. Confr., FVM., Moshtohor, Sept, 2004.
- Shaltout FA, El-diasty, E, M.; Elmesalamy, M. and Elshaer, M. (2014): Study on fungal contamination of some chicken meat products with special reference to 2 the use of PCR for its identification. Conference, Veterinary Medical Journal Giza vol. December 2014/12/17 vol.60: 1-10.
- shaltout, F.A. (2002): Microbiological Aspects of Semi-cooked chicken Meat Products. Benha Veterinary Medical Journal13,2 15-26.
- Shaltout FA, Thabet, M.G2 and Hanan, A. Koura3. (2017): Impact of some essential oils on the quality aspect and shelf life of meat.BENHA VETERINARY MEDICAL JOURNAL, 33, (2): 351-364.
- 77. Shaltout FA, Mohammed Farouk; Hosam A.A. Ibrahim and Mostafa E.M. Afifi4.2017: Incidence of Coliform and Staphylococcus aureus in ready to eat fast foods. BENHA VETERINARY MEDICAL JOURNAL, 32(1): 13 - 17, MARCH, 2017.
- Shaltout, F.A., Zakaria, I.M., Nabil, M.E. (2017): Detection and typing of *Clostridium perfringens* in some retail chicken meat products.BENHA VETERINARY MEDICAL JOURNAL,. 33(2):283-291.
- 79. Shaltout, F.A. (1992): Studies on Mycotoxins in Meat and Meat by Products. M.V.Sc Thesis Faculty of Veterinary Medicine,Moshtohor,Zagazig University Benha branch.
- Shaltout, F.A. (1996): Mycological and Mycotoxicological profile Of Some Meat products. Ph.D.Thesis, Faculty of Veterinary Medicine, Moshtohor, Zagazig University Benha branch.
- Shaltout, F.A. (1998): Proteolytic Psychrotrophes in Some Meat products. Alex. Vet. Med. J.14 (2):97-107.
- Shaltout, F.A. (1999): Anaerobic Bacteria in Vacuum Packed Meat Products. Benha Vet. Med.J.10 (1):1-10.
- Shaltout, F.A. (2000): Protozoal Foodborne Pathogens in some Meat Products. Assiut Vet. Med. J. 42 (84):54-59.
- Shaltout, F.A. (2001): Quality evaluation of sheep carcasses slaughtered at Kalyobia abattoirs. Assiut Veterinary Medical Journal, 46(91):150-159.
- 85. Shaltout, F.A. (2002): Microbiological Aspects of Semi-cooked Chicken Meat Products. Benha Vet.Med.J. 13(2):15-26.
- 86. Shaltout, F.A. (2003): *Yersinia Enterocolitica* in some meat products and fish marketed at Benha city. The Third international conference Mansoura 29-30 April.
- Shaltout, F.A. (2009): Microbiological quality of chicken carcasses at modern Poultry plant. The 3rd Scientific Conference, Faculty of *Vet. Med., Benha University*, 1-3..

- Shaltout, F.A. and Abdel Aziz, A.M. (2004): Salmonella enterica Serovar Enteritidis in Poultry Meat and their Epidemiology.*Vet.Med.J.*, Giza,52(3):429-436.
- 89. Shaltout, F.A. and Abdel Aziz, A.M. (2004): ESCHERICHIA COLI STRAINS IN SLAUGHTERED ANIMALS AND THEIR PUBLIC HEALTH IMPORTENCE. J.Egypt. Vet. Med. Association 64(2):7-21.
- Shaltout, F.A., Amin, R., Marionet, Z., Nassif and Shimaa, Abdel-wahab(2014): Detection of aflatoxins in some meat products. *Benha veterinary medical journal*, 27(2):368-374.
- 91. Shaltout, F.A. and Afify, Jehan Riad, EM and Abo Elhasan, Asmaa, A. (2012): Improvement of microbiological status of oriental sausage. *Journal of Egyptian Veterinary Medical Association* 72(2):157-167.
- 92. Shaltout, F.A. and Daoud, J. R. (1996): Chemical analytical studies on rabbit meat and liver. *Benha Vet. Med.J.*8 (2):17-27.
- Shaltout, F.A. and Edris, A.M. (1999): Contamination of shawerma with pathogenic yeasts. Assiut Veterinary Medical Journal,40(64):34-39.
- 94. Shaltout, F. A.; Eldiasty, E. and Mohamed, M.S. (2014): Incidence of lipolytic and proteolytic fungi in some chicken meat products and their public health significance. Animal Health Research Institute: First International Conference on Food Safety and Technology 19-23 June 2014 Cairo Egypt pages 79-89.
- Shaltout, F.A.; Eldiasty, E.; Salem, R. and Hassan, Asmaa (2016): Mycological quality of chicken carcasses and extending shelf – life by using preservatives at refrigerated storage. *Veterinary Medical Journal* -Giza (VMJG)62(3)1-7.
- 96. Shaltout, F.A.; Salem, R. Eldiasty, E.; and Diab, Fatema. (2016): Mycological evaluation of some ready to eat meat products with special reference to molecular chacterization. *Veterinary Medical Journal* -Giza 62(3)9-14.
- Shaltout, F. A.; Elshater, M. and Wafaa, Abdelaziz (2015): Bacteriological assessment of street vended meat products sandwiches in Kalyobia Governorate. *Benha Vet. Med.J.*28 (2):58-66.
- Shaltout, F. A.; Gerges, M.T. and Shewail, A.A. (2018): Impact of Organic Acids and Their Salts on Microbial Quality and Shelf Life of Beef. *Assiut veterinary medical journal* 64(159): 164-177
- Shaltout,F.A.;Ghoneim, A.M.; Essmail, M.E. and Yousseif ,A. (2001): Studies on aflatoxin B1 residues in rabbits and their pathological effects. *J.Egypt. Vet. Med.* Association 61(2):85-103.
- 100. Shaltout, F.A. and Hanan, M.T. El-Lawendy (2003): Heavy Metal Residues in Shawerma. *Beni-Suef Vet.Med.J.* 13(1):213-224.
- 101. Shaltout, F.A. and Hashim, M.F. (2002): Histamine in salted, Smoked and Canned Fish products. i13 (1):1-11.
- 102. Shaltout, F.A.; Hashim, M.F. and Elnahas,s. (2015): Levels of some heavy metals in fish (tilapia nilotica and Claris lazera) at Menufia Governorate. *Benha Vet. Med.J.*29 (1):56-64.
- 103. Shaltout, F.A. and Ibrahim, H.M. (1997): Quality evaluation of luncheon and Alexandrian sausage. *Benha Vet. Med.J.*10 (1):1-10.

- 104. Shaltout, F.A.; Nassif, M and Shakran, A (2014): Quality of battered and breaded chicken meat products. *Global Journal of Agriculture and Food Safety Science* – 1(2) ISSN 2356-7775.
- 105. Shaltout, F.A., Amani M. Salem, A. H. Mahmoud, K. A (2013): Bacterial aspect of cooked meat and offal at street vendors level. Benha *veterinary medical journal*, 24(1): 320-328.
- 106. Shaltout, F.A. and Salem, R.M. (2000): Moulds, aflatoxin B1 and Ochratoxin A in Frozen Livers and meat products. Vet . *Med. J.Giza* 48(3):341-346.
- 107. Yasser H. Al-Tarazi, A. Al-Zamil, Shaltout FA. and H. Abdel-Samei (2002). Microbiological status of raw cow milk marketed in northern Jordan. AVMJ Volume 49 Issue 96 Pages 180-194
- 108. Shaltout FA, Zakaria IM and Nabil ME. (2018): Incidence of Some Anaerobic Bacteria Isolated from Chicken Meat Products with Special Reference to Clostridium perfringens. Nutrition and Food Toxicology2(5):429-438.
- 109. Shaltout, F. A.; El-diasty, E.M. and Mohamed, M. S. (2014): Incidence of lipolytic and proteolytic fungi in some chicken meat products and their public health significance. 1st Scientific conference of food safety and Technology .2014, pp. 79-89.
- 110. Shaltout, F. A.; El-diasty, E.M.; Salem, R. M. and Asmaa, M. A. Hassan. 2016: Mycological quality of chicken carcasses and extending shelf -life by using preservatives at refrigerated storage. Veterinary Medical Journal – Giza ,62(3) :1-10.
- 111. Shaltout FA, R.M. Salem, E.M. El-Diasty and W.I.M. Hassan. 2019: Effect of Lemon Fruits and Turmeric Extracts on Fungal Pathogens in Refrigerated Chicken Fillet Meat. *Global Veterinaria* 21 (3): 156-160,
- 112. Shaltout FA, El-diasty, E, M.; Elmesalamy, M. and Elshaer, M. (2014): Study on fungal contamination of some chicken meat

products with special reference to 2 the use of PCR for its identification. Conference, *Veterinary Medical Journal* – Giza vol. vol.60 1-10.

- 113. Shaltout, F. A.; Salem, R. M; El-diasty, Eman and Fatema, A.H. Diab. (2016): Mycological evaluation of some ready to eat meat products with special reference to molecular characterization. *Veterinary Medical Journal* – Giza. 62(3): 9-14.
- 114. Shaltout FA, Ahmed, A.A. Maarouf, Eman, M.K. Ahmed (2018): Heavy Metal Residues in chicken cuts up and processed chicken meat products. *BENHA VETERINARY MEDICAL JOURNAL*, 34(1): 473-483.
- 115. Shaltout, F.A.; Hanan M. Lamada, Ehsan A.M. Edris. (2020): Bacteriological examination of some ready to eat meat and chicken meals. *Biomed J Sci & TechRes.*, 27(1): 20461- 20465.
- 116. Sobhy, Asmaa and Shaltout, Fahim (2020): Prevalence of some food poisoning bacteria in semi cooked chicken meat products at Qaliubiya governorate by recent Vitek 2 compact and PCR techniques. Benha Veterinary Medical Journal 38 (2020) 88-92.
- 117. Sobhy, Asmaa and Shaltout, Fahim (2020): Detection of food poisoning bacteria in some semi-cooked chicken meat products marketed at Qaliubiya governorate. Benha Veterinary Medical Journal 38 (2020) 93-96.
- 118. Shaltout, F.A. (2024): Abattoir And Bovine Tuberculosis as A Reemerging Foodborne Diseas. *Clinical Medical Reviews and Report* 6(1):1-7.
- 119. Shaltout, F.A. (2023): Viruses in Beef, Mutton, Chevon, Venison, Fish and Poultry Meat Products. *Food Science & Nutrition Technology* 8(4):1-10.



This work is licensed under Creative Commons Attribution 4.0 License

To Submit Your Article Click Here:

Submit Manuscript

DOI:10.31579/2640-1053/183

Ready to submit your research? Choose Auctores and benefit from:

- ➢ fast, convenient online submission
- > rigorous peer review by experienced research in your field
- rapid publication on acceptance
- > authors retain copyrights
- > unique DOI for all articles
- immediate, unrestricted online access

At Auctores, research is always in progress.

Learn more <u>https://auctoresonline.org/journals/cancer-research-and-cellular-therapeutics</u>