



“बेटी बचाओ, बेटी पढ़ाओ”

JAYOTI VIDYAPEETH WOMEN'S UNIVERSITY, JAIPUR

FACULTY OF HOMOEOPATHIC SCIENCE

Name of Faculty	: JV'n Dr Richa Sharma, Asst. Prof. (Deptt. Of FMT)
Program	: BHMS II Year
Course Name	: FORENSIC MEDICINE AND TOXICOLOGY
Session No. & Name	: 1. POSTMORTEM APPEARANCES OF FOOD POISONING

Program Outcome-

- The important objective of the BHMS course is to impart thorough and comprehensive training to the candidate in various aspects of homoeopathy during completion of course students shall be able to perform with proper skill and knowledge of homoeopathy

Course Outcome-

- Able to understand the basic concept of the subject and its importance.
- Aware of inquest, legal and court procedures applicable to medico-legal and medical practice, code of ethics, duties and rights of medical practitioner, duties towards patients and community, punishment on violation of code of ethics, various forms of medical negligence, medico legal post-mortem.
- To understand the relationship of Forensic Medicine & Toxicology with other Homoeopathic subjects like Homoeopathic Pharmacy, Homoeopathic Materia Medica, Organon of Medicine and Homoeopathic

Philosophy & Psychology, along with allied subjects like Anatomy, Physiology, Surgery, Obstetrics & Gynaecology, Practice of Medicine due to integrated way of teaching the subject.

FOOD POISONING

Definition- Illness caused by the infection with microorganisms and ingestion of toxins produced and chemical poisoning. Food contaminated with pathogenic microorganisms usually do not look bad, taste bad or smell bad.

Causes –

- Bacterial
- Natural food poisoning
- Chemicals
- Food poisoning through animals e.g. – poisonous fish, mussel etc.

Bacterial Food poisoning- poisoning caused by ingestion of the food or drink contaminated with either living bacteria or their toxins.

It is divided into two groups-

1. Infection type- microorganisms that multiply in the GI tract producing infection for example, the salmonella group of organism.
2. Toxin type- incubation period is short 1-6 hours. Toxin can be detected in food ex staphylococcus aureus.

Postmortem appearance

- Most cases are gastrointestinal congestion.
- In some cases there may be ulceration of intestinal mucosa.
- Botulism fatalities are usually characterized by a lack of postmortem findings.

- Asphyxia signs may be present.
- Isolated cases of food poisoning may have medicolegal importance and intended victim of homicide.
- Cases of mass food poisoning are common in india.

Poisonous foods-

1. Lathyrus sativus (Kesri dal)- this is drought-resistant plant. Staple food for low income group in some areas of central india. Consumption of seeds >30% of the total diet for more than six months can cause paralysis. The active principle is beta-oxalyl-amino-l-alanine, or BOAA. The condition manifests as a spastic paralysis of the lower limbs probably due to a localized lesion of the pyramidal tracts. In mild cases there is only stiffness and weakness of legs. Death in the acute stage is very rare. In postmortem sclerosis of lateral columns is seen.
2. Mushrooms- it is common variety of poisonous fungi.

Phalloidins

Amatoxins

Virotoxins

Amatoxins are powerful inhibitors of cellular protein synthesis. Liver usually shows centrilobular necrosis.

Usually incubation period of 6-12 hours. Amatoxins detected by Meixner test.

In three stages it can be recognized-

- Gastroenteritis stage
- Latent stage
- Hepato-renal stage

For treatment, decontamination and correction of dehydration.

Epidemic dropsy- this condition presents with vomiting, diarrhea, oedema, especially of the feet and sometimes a generalized anasarca may be seen. Pleural and pericardial effusion, hepatomegaly, and congestive heart failure with breathlessness may also be noticed. In some cases hair loss is present and death may result from myocardial damage.

Textbook of Forensic medicine and Toxicology by Dr. K.S. Narayan Reddy
Suggestions to secure good marks to answer in exam

Explain answer with key point answers

- Questions to check understanding level of students-
 1. Explain postmortem appearance of Food poisoning?
 2. What are causes of food poisoning? Write in detail of Bacterial food poisoning.