



VIJAYA INSTITUTE OF PHARMACEUTICAL SCIENCES FOR WOMEN

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Pharmacy Council of India, New Delhi & Affiliated to JNTUK, Kakinada
ISO 9001:2015 Certified Institution

POISON INFORMATION CENTRE



A poison information center is a medical service that is able to provide immediate, free, and expert treatment advice and assistance over the telephone in case of exposure to poisonous or hazardous substances.

Need of PIC:

A Poison Centre answers enquiries about exposure to chemical agents, including products, pharmaceuticals, natural toxins, pesticides and industrial chemicals. It provides an assessment of whether a particular exposure is hazardous, information on the need for treatment and the kind of



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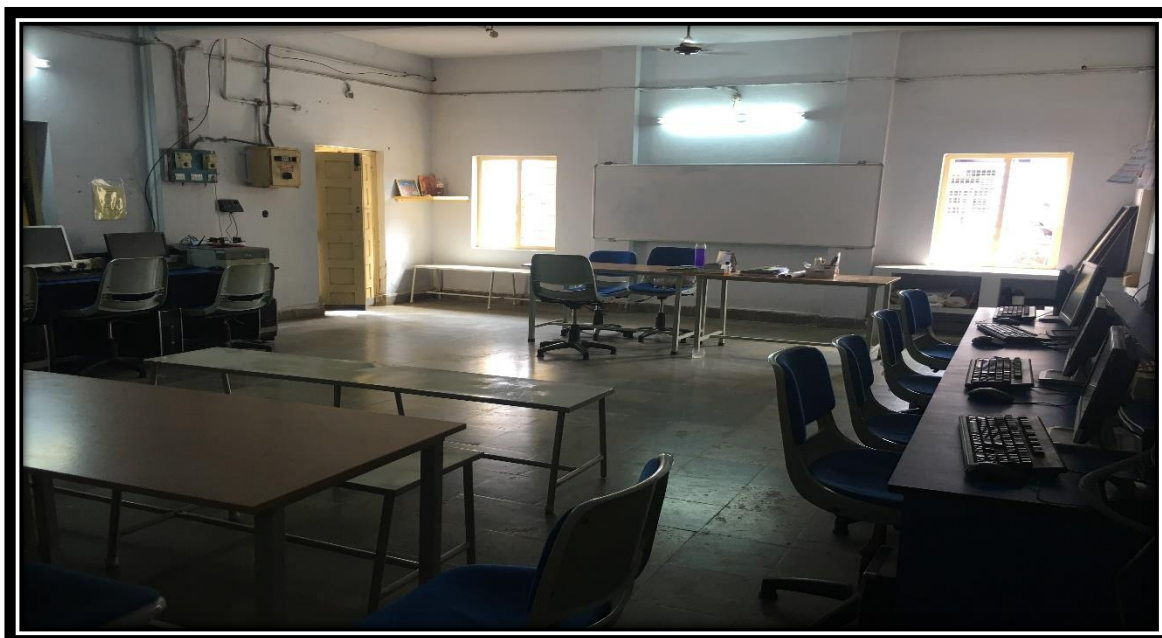
treatment that should be given. Poison Centers aim to promote evidence-based, cost-effective management of poisoning and ensures that unnecessary or ineffective treatment is avoided. Poison Centers offer a service to health professionals and also, in many countries, to the general public. Other users include the emergency services, government bodies, regulatory agencies and education services. Poison centers also maintain databases, including toxicological databases, databases of product formulations and databases of poisoning enquiries to the centre. Many Poison Centers participate in chemical incident preparedness and response activities at local and national level.

Objectives:

- Facilitates the necessary updating and expansion of information on diagnosis and treatment of poisoning cases. Encourages detail follow up of patients.
- Stimulates essential research on human toxicology and patient management.

Functions:

- Patient management
- Toxicological analytical services
- Toxicovigilance
- Education and training of health care professionals and public
- Prevention of poisoning
- Research in poisoning
- Development of therapeutic guidelines or protocols for poison management





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Personnel:

- Physicians, Pharmacists & Nurses
- Medical & paramedical students
- An administrator
- Clinical toxicologist
- Patients & Individuals

PIC Services are available to

- Physicians, Pharmacists & Nurses.
- Medical & paramedical students.
- Research Scholars.
- Other health-care professionals
- Patients & Individuals.

Role of Pharmacist in PIC:

- Provision of information and advice concerning the diagnosis, prognosis, treatment and prevention of poisoning.
- Providing pharmacological information related to drug dosages its adverse effects that may cause, drug interactions and intravenous preparations.
- Provision of information about chemicals toxicity and the risks they pose.

Resources Available:

- **Primary Resources:** Newsletters, Indian Journal of Environment and Toxicology, Journal of Medical Toxicology
- **Secondary Resources:** Pois index, Toxinz, Medline, Intox
- **Tertiary Resources:** Medical and General Toxicology, Occupational and Industrial Toxicology, Formulary Manuals, Medical Dictionaries.



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Common Poisons & Antidotes:

Poison	Antidote
Acetaminophen	Acetylcysteine
Anesthetics, local	Lipid emulsion (Fat Emulsion)
Aniline	Methylene blue
Anticholinesterases (i.e., organophosphates)	Atropine, Pralidoxime (2-PAM)
Antidepressants, Cyclic (TCAs)	Sodium bicarbonate, Lipid emulsion
Antidepressants, noncyclic (i.e., SSRIs, SNRIs, bupropion, venlafaxine, etc)	Sodium bicarbonate, Lipid emulsion
Arsenic	Dimaval
Benzodiazepines	Flumazenil
Beta-blockers	Atropine, Insulin, Calcium, Glucagon (adjunctive therapy only), Lipid emulsion
Black Widow spider	Black Widow spider antivenin (Antivenin Latrodectus Mactans)
Calcium channel blockers	Atropine, Insulin, Calcium, Lipid emulsion
Cyanide	Hydroxocobalamin (Cyanokit), Sodium thiosulfate
Digoxin	Atropine, Digoxin immune Fab
Ethylene glycol	Fomepizole, Pyridoxine, Sodium bicarbonate
Glycol Ethers	Fomepizole
Hydrofluoric acid burns	Calcium gluconate



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Poison

Antidote

Iron

Deferoxamine (Desferrioxamine)

Isoniazid

Pyridoxine

Lead

Dimaval

Mercury (inorganic or elemental)

Dimaval

Methanol

Fomepizole

Mushrooms, Hepatotoxic (i.e., Amanita phalloides)

Acetylcysteine

Mushrooms, Seizure-inducing (Gyromitra or hydrazine-containing mushrooms)

Pyridoxine

Nitrates

Methylene blue

Nitrites

Methylene blue

Opioids

Naloxone

Organophosphate insecticides

Atropine Pralidoxime (2-PAM)

Salicylates

Sodium bicarbonate

Sodium channel blocking drugs* (wide QRS)

Sodium bicarbonate, Lipid emulsion

Sulfonylurea (oral hypoglycaemic)

Octreotide