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Diploma in Pharmacy 2nd Year
Hospital & Clinical Pharmacy
Important Questions
Chapter 6 : Radio Pharmaceuticals

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Chapter 6
Radio Pharmaceuticals
IMPORTANT Questions

Q1. Define radiopharmaceuticals ? Write in brief about Handling & Storage of Radiopharmaceuticals.

Ans.

Radio Pharmaceuticals

→ Radio pharmaceuticals, also known as radiopharmaceuticals, are drugs that contain radioactive isotopes. These isotopes emit radiation, which allows them to be used in medical imaging and therapy.

→ They are used to diagnose and treat a variety of conditions, such as cancer, thyroid disorders, and blood flow problems.

→ They can be administered by injection, orally or inhalation.

Handling and Storage of Radiopharmaceuticals

- When Radiopharmaceuticals are not in use , must be kept in sealed container.
- The radioactive materials must not contaminate the working area.
- Unnecessary movement of persons and radioactive materials must be avoided.
- All the radiation workers must wear suitable protective clothing and surgical gloves and should have radiation monitoring device.
- To carry liquid Radiopharmaceuticals , the trays should be used with absorbent tissue paper for absorbing any accidental spillage.
- Smoking , eating , drinking and like that activities are strictly prohibited in the area of radioactive work.

Storage of Radio Pharmaceuticals

- Radio pharmaceuticals should be stored in a secure, designated area that is separated from other drugs and medical equipment. The storage area should be well-ventilated, with a low level of background radiation.
- The storage area should also have limited access, and be clearly labeled to indicate the presence of radioactive materials.
- The temperature and humidity of the storage area should be carefully controlled to ensure the stability of the radio pharmaceuticals.
- It's recommended to store them in a refrigerator or freezer, depending on the specific requirements of the drug.
- It's also important to maintain accurate records of the storage, use and disposal of radiopharmaceuticals, and to ensure that they are handled and disposed of properly to minimize the risk of exposure to radiation.
- Additionally, the storage area should be equipped with radiation detection and alarm systems, as well as emergency response protocols in case of a spill or other accident.

Q2. Write about Dispensing of Radiopharmaceuticals.

Ans.

Dispensing of Radiopharmaceuticals

- Dispensing of Radiopharmaceuticals should be safe, simple , and reliable.
- Radiopharmaceuticals should not be dispensed to patients , but dispensed to healthcare providers and from there administered to patients.
- The recommended dose should be determined by the pharmacist on the basis of patients history , age , weight etc.
- These drugs should be dispensed only on the valid prescription.
- Necessary records should be maintained.

Q3. Write about Disposal of Radiopharmaceuticals.

Ans.

Disposal of Radiopharmaceuticals

- Radiopharmaceuticals are not disposed just like other drugs,
- Low level radioactive wastes are disposed into land at 10 meter depth.
- High level radioactive wastes are stored for about 50 years before disposal . and they are disposed into at depth of 500 to 1000 meter

Types of Disposal

- Incineration
- In water
- Burial
- Deep Burial
- Recycle and reuse

Q4. What are the steps follow before the disposal of Radiopharmaceuticals.

Ans.

Steps before disposal

- They are put in yellow color plastic in a separate place ,
- Solid should be free from liquids and liquids from solids.
- Radio Active symbol should be labeled on the bags.
- Attach a dangerous tag.
- Seal the bag when it is full
- Sealed it in a clear plastic bag
- Moved it waste storage area

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