

Radiopharmaceuticals Notes

Radiopharmaceuticals: Radio activity, Measurement of radioactivity, Properties of α , β , γ radiations, Half-life, radio isotopes and study of radio isotopes - Sodium iodide 131, Storage conditions, precautions & pharmaceutical application of radioactive substances.

• Definition:

- Radiopharmaceuticals, as the name suggests, are pharmaceutical formulations consisting of radioactive substances (radioisotopes and molecules labelled with radioisotopes), which are intended for use either in diagnosis or therapy or diagnosis.
- The use of radioactive material necessitates careful and safe handling of these products by trained and authorized personnel, in approved/authorized laboratory facility as per the guide lines of Atomic Energy Regulatory Board (AERB) of India.

• Units of Radioactivity:

- In the International System (SI), the unit of radioactivity is one nuclear transmutation per second and is expressed in **Becquerel (Bq)**, named after the scientist *Henri Becquerel*.
- The old unit of radioactivity was **Curie (Ci)**, named after the scientists *Madame Marie Curie* and *Pierre Curie*, the pioneers who studied the phenomenon of radioactivity.
- One Ci is the number of disintegrations emanating from **1 g of Radium-226**, and is equal to 3.7×10^{10} Bq.
 - The **Becquerel (Bq)** is the SI derived unit of radioactivity. One becquerel is defined as the activity of a quantity of radioactive material in which one nucleus decays per second. The activity of a source is measured in becquerels.
 - ✓ This is a very small unit, and multiples are often used:
1 MBq = 1 mega Becquerel = 1,000,000 Bq; 1 GBq = 1 giga Becquerel = 1,000,000,000 Bq;
1 TBq = 1 tera Becquerel = 1,000,000,000,000 Bq
 - ✓ The radioactivity of an environment, a material or a foodstuff is given in Becquerel's per kilogram or per liter.
 - The **gray (Gy)** is defined as the absorbed dose of radiation per unit mass of tissue. One gray is the absorption of one joule of radiation energy per kilogram of matter. The amount of radiation your cells absorb is measured in grays.
 - 1 Gy = 1 joule per kilogram**
 - Sub-multiples are often used:
1 mGy = 1 milligray = 0.001 Gy; 1 μ Gy = 1 microgray = 0.000001 Gy
1 nGy = 1 nanogray = 0.000000001 Gy
 - The **Sievert (Sv)** is a measure of the health effects of low levels of ionizing radiation on the human body. At equal doses, the effects of radioactivity on living tissue depends on the type of radiation (alpha, beta, gamma, etc.), on the organ concerned and also on the length of exposure.
 - Contrary to the Becquerel, the sievert is a very large unit, and we often use sub-multiples:
1 mSv = 1 millisievert = 0.001 Sv; 1 μ Sv = 1 microsievert = 0.000001 Sv

• Half-Life Period:

- The time in which a given quantity of a radionuclide decays to half its initial value is termed as half-life ($T_{1/2}$).
- Formulas for half-life in exponential decay.

$$N(t_{1/2}) = \frac{1}{2} N_0 \text{ as expected (this is the definition of half-life)}$$

$$\begin{aligned} N(t) &= N_0 \left(\frac{1}{2} \right)^{\frac{t}{t_{1/2}}} \\ N(t) &= N_0 e^{-\frac{t}{\tau}} \\ N(t) &= N_0 e^{-\lambda t} \end{aligned}$$

Where:

- N_0 is the initial quantity of the substance that will decay (this quantity may be measured in grams, moles, number of atoms, etc.).
- $N(t)$ is the quantity that still remains and has not yet decayed after a time t .
- $t_{1/2}$ is the half-life of the decaying quantity.
- τ is a positive number called the mean lifetime of the decaying quantity.
- λ is a positive number called the decay constant of the decaying quantity.

Radioactive Letter Notes

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