

Group-4 participants

R.Indira

Dr.Dhenesh

Ms. Vetri selvi

Ms.Jyothi

Ms.Chandra vadhana

MrPrathap

Reviewed by:

Dr. Lallu Joseph Secretary General CAHO

Faculty

Ms. Freeda D'Souza

Ms. Sudha

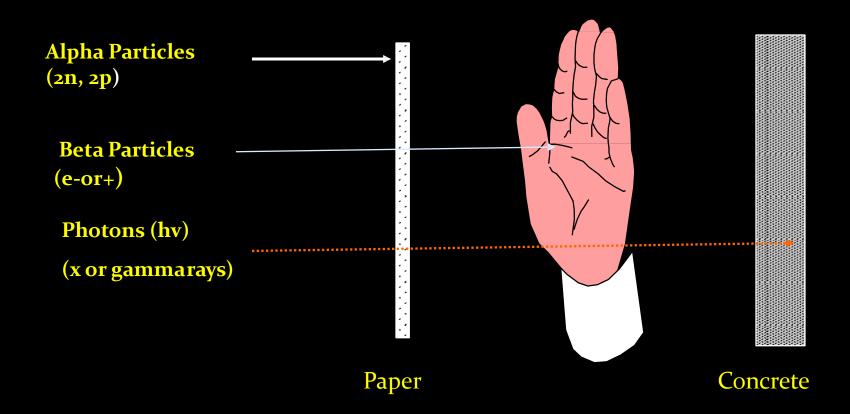
Dr. Joseph Fidelis

Ms. Remya

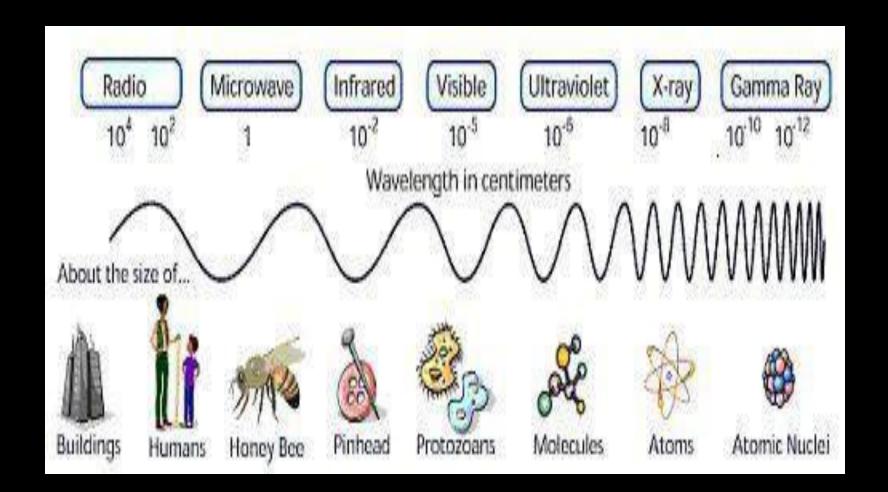
What is Radiation?

- **Radiation** is the emission or transmission of energy in the form of waves or particles through space or through a material medium.
- Radiation occurs through Ionizing Radiations and Electro magnetic waves

Ionizing radiation particles



Electromagnetic waves



Exposure to radiation

Exposure Type		Dose Levels
Occupational Exposure (Annual) Whole Body Effective Dose Limits (Stochastic Effects) Dose Equivalent Limits for organs (Non Stochastic Effects)	Lens of Eye All others	50 mSv 150 mSv 500 mSv
Public Exposure (annual) Effective dose euivalent limit, continous exposure Effective dose euivalent limit, infrequent exposure Dose Equivalent Limits for lens, skin and extremities		1 mSv 5 mSv 50 mSv
Embryo Fetus Exposures Total dose equivalent limit Dose Equivalent in a month		5 mSv 0.5 mSv
Annual effective education and training exposure Dose Equivalent Limits for lens, skin and extremities		1 mSv 50 mSv

Radiation safety Programme is documented



AERB LICENSE

परमाणु ऊर्जा नियामक परिषद विकिरण संरक्षा प्रभार



GOVERNMENT OF INDIA ATOMIC ENERGY REGULATORY BOARD

RADIOLOGICAL SAFETY DIVISION

Case File Number: DL-35772-SA-XRE-001

Issuance Date: 26/05/2016

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Expiry Date: 26/05/2019

AUTHORIZATION OF SERVICE AGENCIES FOR MEDICAL DIAGNOSTIC X-RAY EQUIPMENT

In exercise of the powers conferred under section 16 of the Atomic Energy Act, 1962 read in conjunction with Rule-3 of the Atomic Energy (Radiation Protection) Rules, 2004, the Atomic Energy Regulatory Board (AERB) hereby grants the Authorization in favor of MR. BRIJ NATH, RAYDENT MEDITECH PRIVATE LIMITED, New Delhi hereinafter referred to as the Licensee, for providing the services as given in Table 1 of Annexure-1. This Authorization is applicable for Type of x-ray equipment as specified in Table 2 of Annexure-1.

DIRECTOR, RAYDENT MEDITECH PRIVATE LIMITED New Delhi and MR. BRIJ NATH are hereby identified as the Employer and Licensee respectively, for the purpose of assigning the responsibilities specified in the Atomic Energy (Radiation Protection) Rules, 2004.

The Employer and Licensee are responsible for,

- 1. Ensuring compliance with the relevant provisions of the
 - Atomic Energy Act, 1962
 - Atomic Energy (Radiation Protection) Rules, 2004; iii. AERB Safety Code (AERB/SC/Med-2), 2001, Amendment 2012, and the revisions thereof
 - iv. All applicable Safety Codes, Guides issued by AERB for the above practice and regulatory documents issued by AERB from time to time.
- Directives issued by Competent Authority from time to time. 2. Ensuring compliance with terms and conditions stated overleaf.

This Authorization is issued ONLY from the RADIATION SAFETY VIEW POINT. All other clearances shall be obtained from concerned state/central/local authorities as applicable.

A copy of this Authorization shall be displayed in a prominent location in the Company premises



Dr. Avinash U. Sonawane Head

RAYDENT MEDITECH PRIVATE LIMITED

H NO 552 KOTLA VIHAR, PHASE 2 NANGLOI NEAR FARM HOUSE NEW DELHI, DELHI-110043

Copy to: DIRECTOR, RAYDENT MEDITECH PRIVATE LIMITED, NEW DELHI



रमण्यु अर्था नियासक परिषद्, नियासक भवन, अणुशक्तिनगर, सुंबई ४०००९४ (महाराष्ट्र) Atomic Energy Regulatory Board, Niyarnak Bhavan, Anushaktinagar, Mumbai 400094 (Maharashtra)



वेबसाइट/Website: www.aerb.gov.in

दरभाष/Tel: 91-22-2599 0656

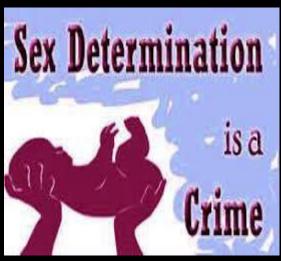
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LICENSE—PC-PNDT



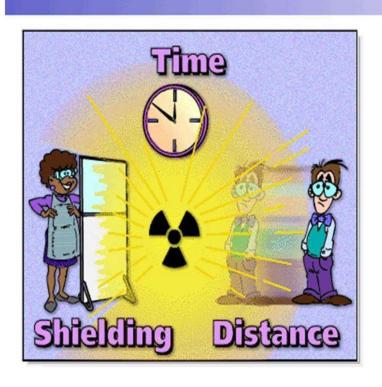


Disclosure of Sex of Foetus is Prohibited under law



ALARA(As low As Reasonably Acheivable)

Radiation Protection Techniques



There are three basic considerations for protecting yourself from radiation:

- Time
- Distance
- Shielding

Screening for safety and risk before radiation (Pregnancy and MRI)







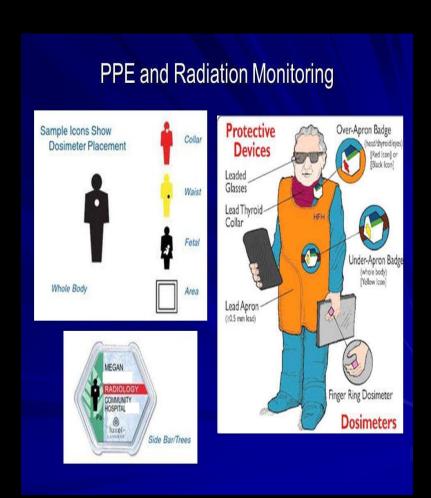
Handling, Usage and disposal of Radio-active and hazardous materials as per BMW rules







Radiation safety devices and Monitoring devices are provided





Radiation safety devices and Monitoring devices are Tested periodically and documented









Bhabha Atomic Research Center

Staffs are trained in Imaging safety practices



Imaging signage's are Displayed prominently in appropriate locations





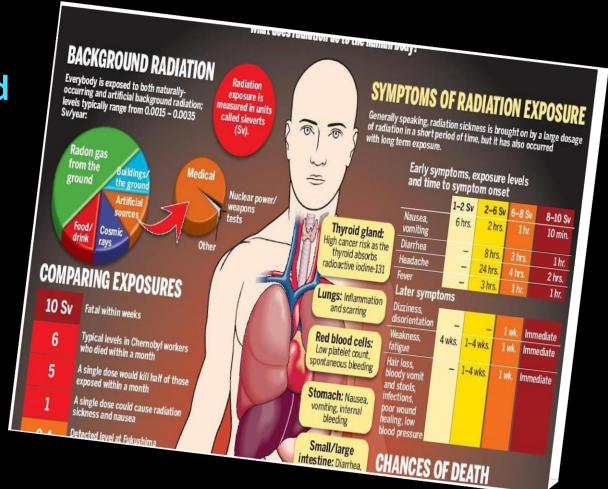






If staff exposed to excess radiation?

- •Change thework place of the person
- •Send person for vacation and get the appropriate tests done
- •This can be followed as per the organizations policy as adopted



Thank you