Dr Versha Prasad

Biomedical waste Management-2

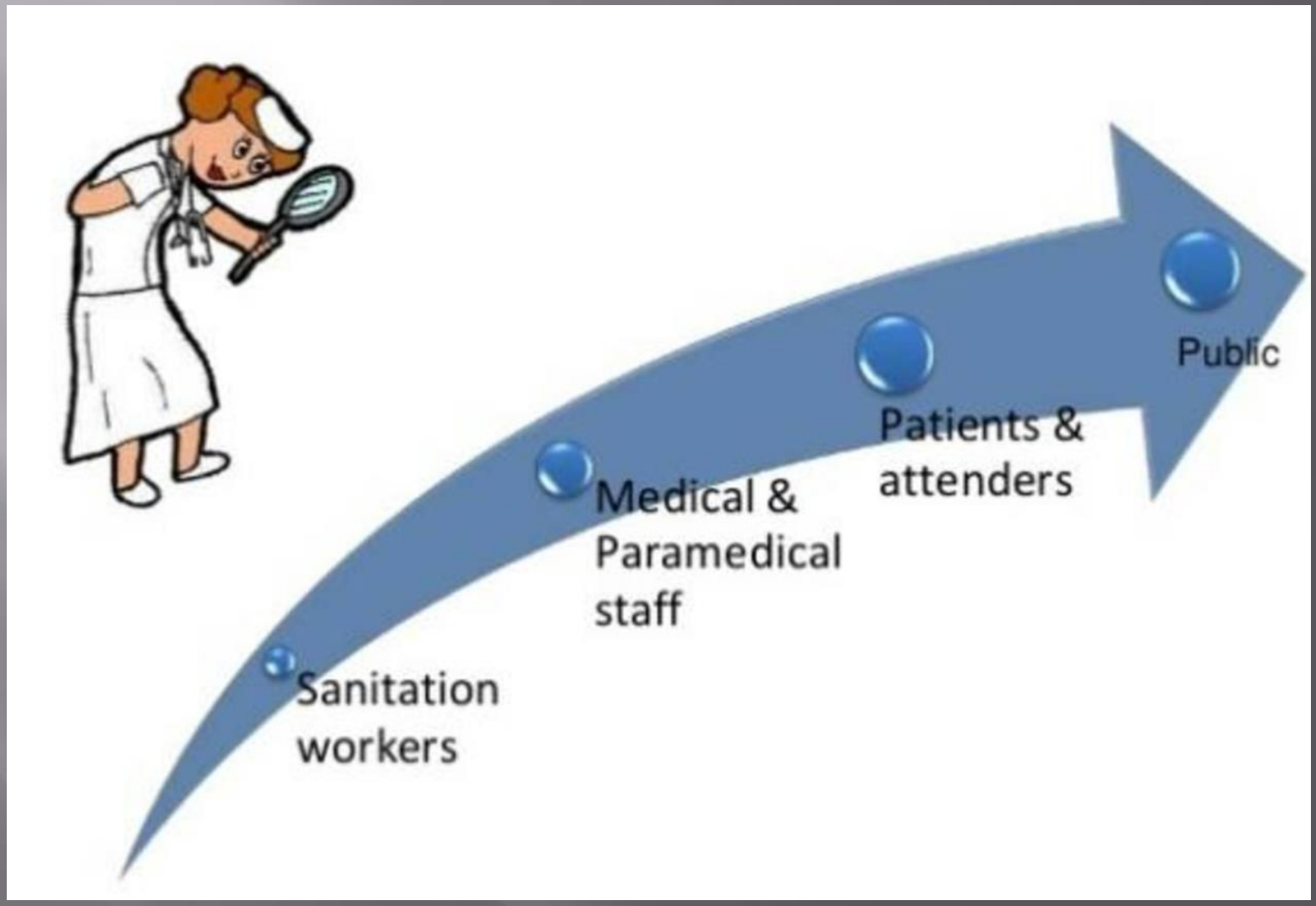
BMW- Management

Biomedical Waste

Biomedical Waste Management and Handling Rules, 1998 [Amended in 2000]

- These rules apply to all persons who generate, collect, receive, store, transport, treat, dispose or handle bio-medical waste in any form. All Institutions generating BMW must take all steps to ensure that such waste is handled without any adverse effect to human health and the environment

Risks ???

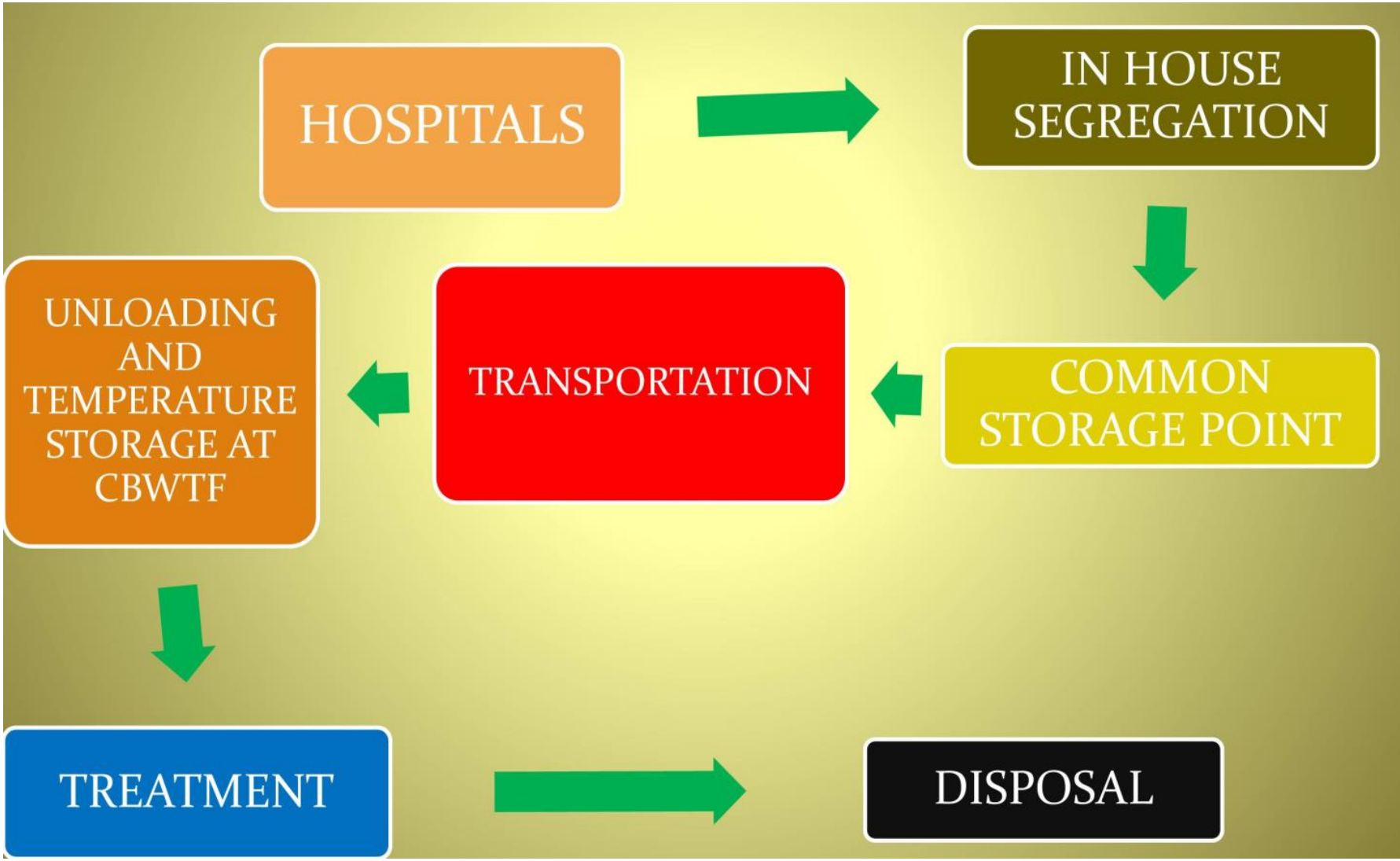

Sanitation workers
Medical & Paramedical staff
Patients & attenders
Public

Biomedical Waste

OBJECTIVE OF BMW MANAGEMENT

- To minimize the production/generation of infective waste.
- Recycle the waste after to the extent possible
- Treat the waste by safe environment friendly/acceptable methods.
- Adequate care in handling to prevent health care associated infections.
- Safety precautions during handling the BMW.

Biomedical Waste Management Process



Biomedical Waste

VEHICLE USED FOR TRANSPORTATION

Categories of Biomedical Waste as per WHO Standards

WASTE CATEGORY	TYPE OF WASTE	TREATMENT AND DISPOSAL OPTION
Category No. 1	**Human Anatomical Waste** (Human tissues, organs, body parts)	Incineration@ / deep burial*
Category No. 2	**Animal Waste** (Animal tissues, organs, body parts, carcasses, bleeding parts, fluid, blood and experimental animals used in research, waste generated by veterinary hospitals and colleges, discharge from hospitals, animal houses)	Incineration@ / deep burial*
Category No. 3	**Microbiology & Biotechnology Waste** (Wastes from laboratory cultures, stocks or specimen of live micro organisms or attenuated vaccines, human and animal cell cultures used in research and infectious agents from research and industrial laboratories, wastes from production of biologicals, toxins and devices used for transfer of cultures)	Local autoclaving/ microwaving / incineration@

Categories of Biomedical Waste as per WHO Standards

Category No. 4	**Waste Sharps** (Needles, syringes, scalpels, blades, glass, etc. that may cause puncture and cuts. This includes both used and unused sharps)	Disinfecting (chemical treatment@@ / autoclaving / microwaving and mutilation / shredding
Category No. 5	**Discarded Medicine and Cytotoxic drugs** (Wastes comprising of outdated, contaminated and discarded medicines)	Incineration@ / destruction and drugs disposal in secured landfills
Category No. 6	**Soiled Waste** (Items contaminated with body fluids including cotton, dressings, soiled plaster casts, lines, bedding and other materials contaminated with blood.)	Incineration@ / autoclaving / microwaving
Category No. 7	**Solid Waste** (Waste generated from disposable items other than the waste sharps such as tubing, catheters, intravenous sets, etc.)	Disinfecting by chemical treatment@@ / autoclaving / microwaving and mutilation / shredding# #

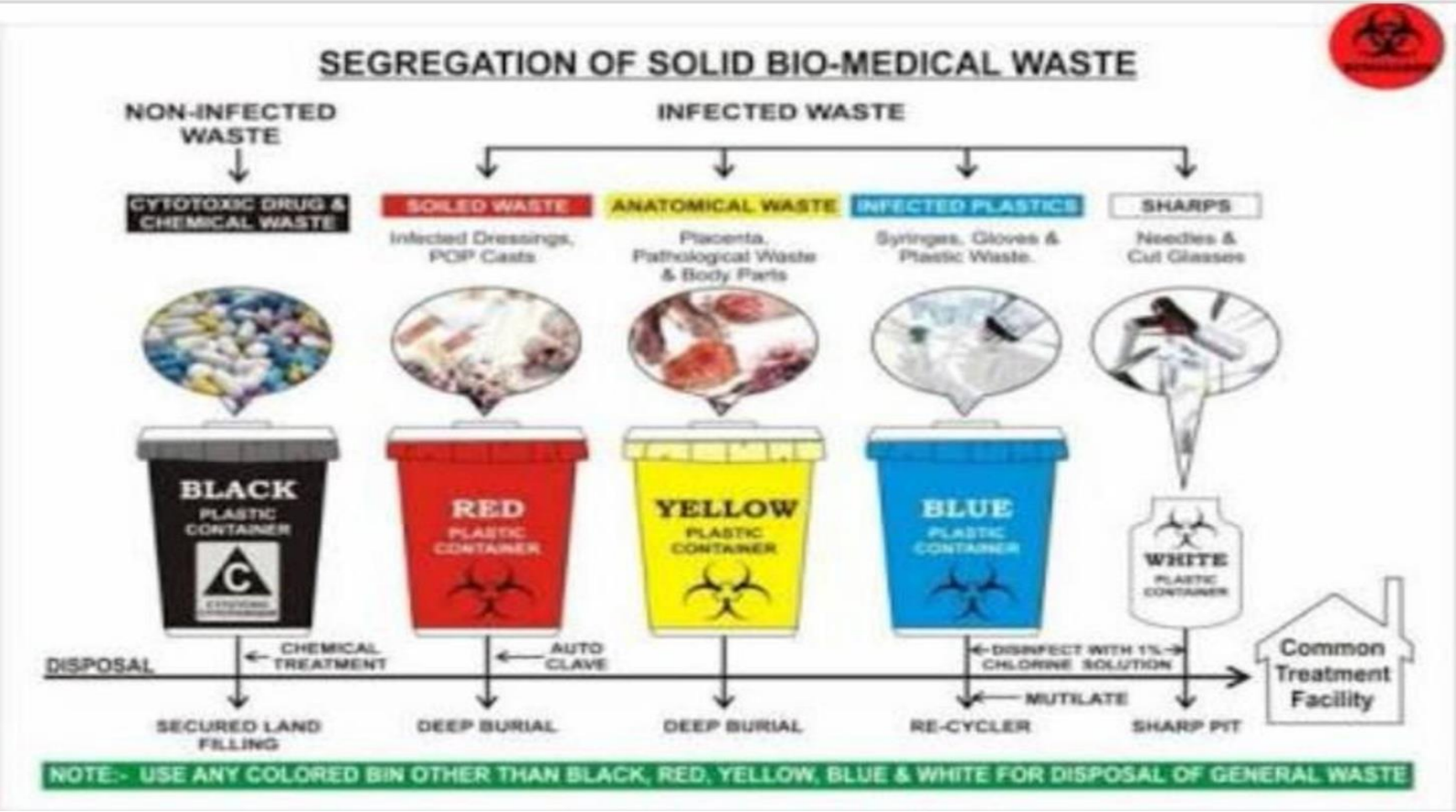
Categories of Biomedical Waste as per WHO Standards

Category No. 8	**Liquid Waste** (Waste generated from the laboratory and washing, cleaning, house keeping and disinfecting activities)	Disinfecting by chemical treatment@@ and discharge into drains
Category No. 9	**Incineration Ash** (Ash from incineration of any biomedical waste)	Disposal in municipal landfill
Category No.10	**Chemical Waste** (Chemicals used in production of biologicals, chemicals used in disinfecting, as insecticides, etc.)	Chemical treatment @@ and discharge into drains for liquids and secured landfill for solids.

Coloor Coding for Segregation of BMW

COLOR	WASTE	TREAT
Yellow	Human & Animal anatomical waste / Micro-biology waste and soiled cotton/dressings/linen/beddings etc.	Incineration/DB/
Red	Tubings, Catheters, IV sets.	Autocl/microwav /chemical treatment
Blue / White	Waste sharps (Needles, Syringes, Scalpels, blades etc.)	Autocl/microwav /chemical treatment/destr uction/shredding
Black	Discarded medicines/cytotoxic drugs, Incineration ash, Chemical waste.	Disposal in land fields

Coloor Coding for Segregation of BMW



Awareness & Education

- Organizing seminars
- Workshops
- Practical demonstrations
- Group disscusions
- Lectures

THANK YOU

Dr VeRsHa PraSaD