PERSONAL PROTECTION SELECTION AND ITS USES

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ABSTRACT
Personal protective equipment, or PPE, is designed to protect us from work place hazards. The use of PPE can include the use of, or a combination of, protective gloves, eyewear, coveralls, foot protection, head protection, as well as respiratory protection. This can protect people and health care workers from infections. All hospital staff, patients, and visitors should use PPE when there will be contact with blood or other bodily fluids. Personal protective equipment (PPE) is used when there is a risk of exposure to infectious material. PPE is designed to protect the skin and mucous membranes from exposure to pathogens. Health care workers who use PPE to guard against contamination Must remember these three principles: 1) Repetitive training and 2) Demonstrated competency in putting on and removing PPE, ensure proficiency in the use of the equipment. 3) The use of a checklist is recommended to document the correct sequence of steps in putting on or taking of PPE.

KEYWORDS: PPE, infectious material, contamination.

INTRODUCTION
Personal protection equipment is a special equipment worn to create a barrier between the person and germs. This barrier reduces the chance of touching, being exposed to and spreading germs. PPE is used when there is a risk of exposure to infectious material. PPE is designed to protect the skin and mucous membranes from exposure to pathogens. When used properly, PPE acts as a barrier between infectious materials such as viral and bacterial contaminants and to one’s skin, mouth, nose, or eyes. PPE as Defined by the Occupational Safety and Health administration (OSHA) specialized clothing or equipment worn by an employee For protection against infectious material.

AIM AND OBJECTIVES
- To explore the level of awareness among the hospital Laboratory workers at SBMCH.
- To explore the level of knowledge and activities of a group Working in SBMCH laboratory.

MATERIALS AND METHODS
This is a questionnaire based study conducted in SBMCH laboratory during the month of February 2017 on laboratory workers using tools of data collection such as questionnaire. Tools of data collection-Questionnaire study included 70 laboratory personnel and Postgraduate students of various departments who worked in laboratory. Questionnaire included questions based on PPE based on PPE were distributed among the 70 study population. All the 70 filled in the questionnaire.

RESULTS
Of the 70 filled in questionnaires received, 98% were using PPE while working in laboratory. 80% were using mask, apron/gown and gloves but foot protection like boots and cap were used occasionally only.

DISCUSSION
After the analysis made, PPE workers rated PPE very helpful. None of the workers rated PPE, as not helpful. The range of Factors that impact PPE related behavior and compliance were organized into 3 categories, in the 2008 institute of medicine (IOM).

Report and in other studies
1) Individual factors such as knowledge, beliefs, attitude, perception of risk, history and socio demographics.
2) Environmental factors including availability of equipments and negative pressure rooms.
3) Careful surveillance at an institutional level, including reporting and feedback of data on exposures, might identify some of the unexpected exposures and reduce their occurrence.
How to put on Personal Protective Equipment
1. Perform hand hygiene before entering a client’s environment.
2. Put on long-sleeved gown Opening to the back. Tie at the neck and waist. Cover skin and clothing.
3. Put on a mask. Secure loops or ties.
4. Put on eye protection.
5. Put on gloves. Pull gloves over gown cuffs.

How to take off Personal Protective Equipment
Remove gloves. Grasp at the palm and remove, pulling the glove inside out. Scoop under the second glove and remove. Place gloves in garbage. Remove gown, untie neck, then waist. Scoop fingers under cuff. Pull over hand. Use gown covered hand to pull gown over other hand. Pull gown off without touching the outside. Roll gown inside out. Place in laundry hamper or garbage as appropriate. Perform hand hygiene Personal Protective Equipment “Personal Protective”. It is therefore important that workers have basic knowledge about the potential hazards and the proper use and Precaution of equipment in use.

Personal Protective Equipment “Personal Protective” Tips
Do not dangle a mask around the neck when not in use. Do not reuse, mask. Change the mask if it becomes wet or soiled. Do not double glove. Do not use the same pair of gloves for the care of more than one patient. Do not clean gloves for reuse. Remove gloves and perform hand hygiene immediately after patient care activities. If gloves are still indicated, replace with a clean pair.

CONCLUSION
PPE is available to minimize the potential hazards for exposure to pathogens. When PPE is worn, removed and discarded properly, it is effective in protecting the person wearing it and the patient and Health care worker and with whom the person comes into contact. The comparative effectiveness of one type against another is still unknown. Factors to consider when choosing PPE for a health care facility may include, availability of supply because large numbers of disposable suits will be used. Standardisation of equipment which will avoid mistakes. Worker preferences (e.g. goggles steam up which could be avoided by visors). Costs of making equipment affordable for low income countries.

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