

Study on reporting of preparedness of hospital staff in emergency conditions



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About the Organization

Apollo BSR is a multi-specialty hospital with a motto to provide quality healthcare at affordable cost. It has a fully equipped tertiary care centre of international standard for cardiac intervention and surgeries.

Apollo BSR is 175 bedded super specialty hospital providing secondary and tertiary level healthcare at affordable cost in association with Apollo hospitals Chennai

Hospital is recognized and empanelled by Govt. of Chhattisgarh, CSEB, NSPCL, FCI, BSNL, CISF, NMDC, SECL, various insurance companies and TPAs.

RATIONALE:-

Improving the reaction time and handling time of various emergency situations like fire, child abduction, medical emergencies, chemical spillage, natural calamities, security treats, also improving the handling capacity and streamlining the disaster management.

This will also help in saving various lives in the hospital (staff, patient, visitors, relatives, employees) and also increases the security and safety for all and leads to increase employee and patient satisfaction.

Common codes will help in quick reactions and easy management. It will also help in coordination with other nearby hospital and services like police, fire brigade, etc at the time of uncontrollable emergencies.

RESEARCH QUESTION

Access the knowledge among the staff and reduce the delay for handling of emergencies.

Can we improve the awareness and knowledge among staff with the help of continuous training?

OBJECTIVES

- To identify various emergency codes available in the hospital.
- To measure and assess the awareness among the staff (clinical and non-clinical) about different codes and protocols to be followed.
- To evaluate the knowledge of the staff regarding emergency protocols after proper training of the staff.
- To improve the reaction time by performing the mockdrills(whenever possible.)

METHODOLOGY

-) *Primary source*
- Interview of staff was conducted to know their knowledge regarding the emergencies.

- *b) Secondary source*
- Training schedule

**Source
of data**

**Study
Type**

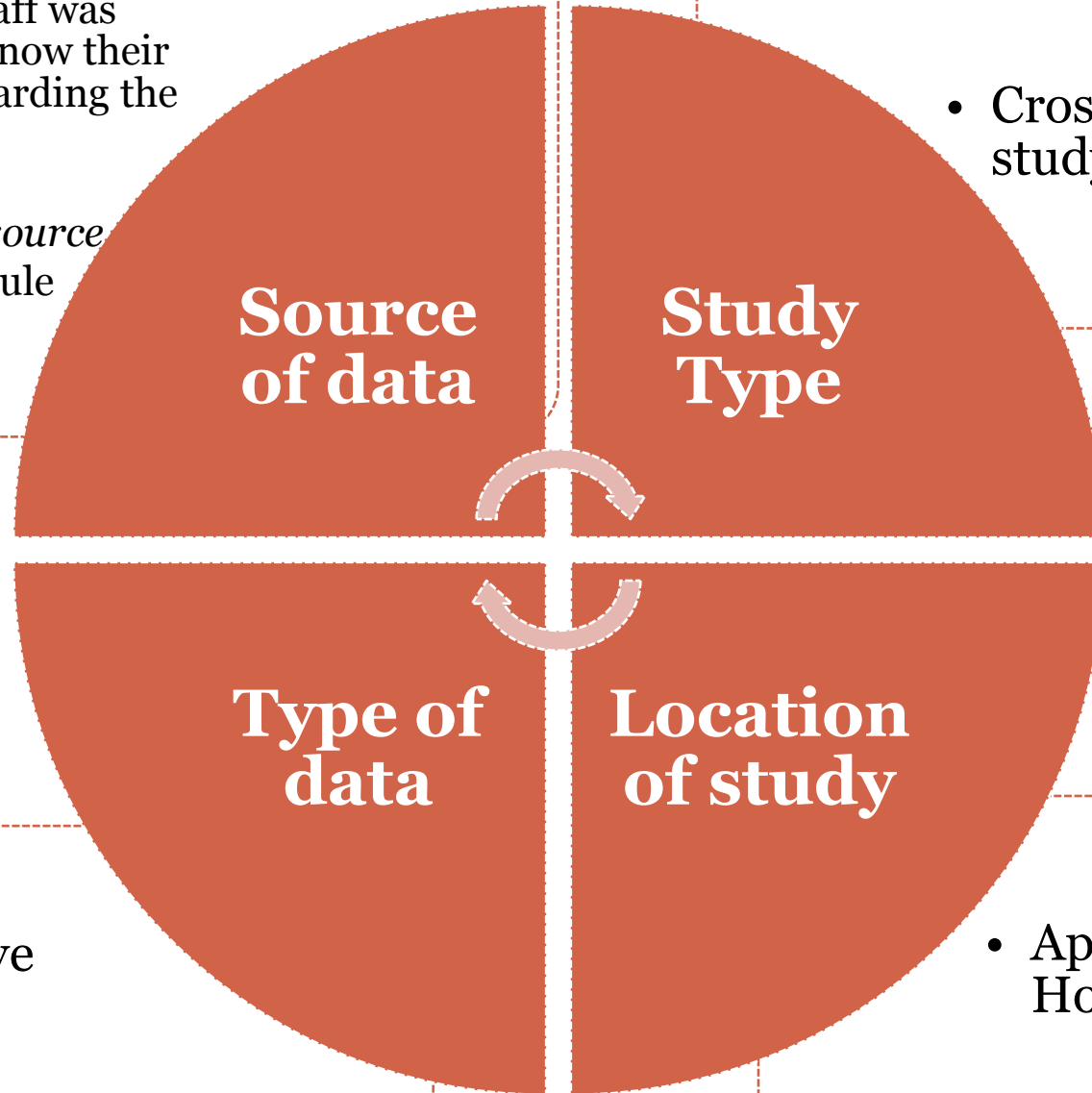
- Cross sectional study

**Type of
data**

**Location
of study**

- Quantitative

- Apollo BSR Hospital, Bhilai





Study Area

- Out Patient Department, in- patient department, supportive areas.



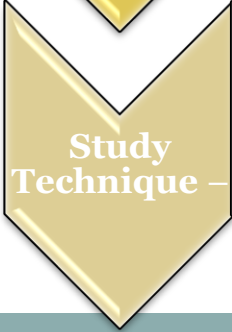
Sampling method

- Purposive Sample was selected on the basis of duty roaster as study demanded pre assessment of knowledge, training and post evaluation of training (long duration). A detailed questionnaire was prepared and test was conducted under the HR and quality supervision. And training was done as class room training and staff was provided with written



Sample size

- 60 hospital staff were interviewed and trained.



Study Technique –

- Observation, interview, questionnaire

Data collection Tool –

Primary data collection: 1. Informal interviews with staff of the hospital
2. Post training interviews and test.
3. Direct observation (via mock drill)

Secondary data collection: Training schedules and training sheets

Data analysis – Done with the help of MS-Excel sheets. The data of pre and post training analysis was done with the help of graphs.

Ethical Considerations-

Privacy

Confidentiality

Support

Explanation

INTRODUCTION

Hospital Emergency Codes are used in hospitals worldwide to alert staff to various emergencies.

The use of codes is intended to convey essential information quickly and with minimal misunderstanding to staff, while preventing stress and panic among visitors to the hospital.

They enable a concise means of ensuring staff receive a common message, signalling the need for an urgent response without unnecessarily alerting or alarming patients, residents, or visitors.

Code red

Refers to a message announced over a hospital's public address system warning the staff of

A **fire** occurring in the facility, indicating that emergency measures should be taken

Code blue

Refers to an *medical emergency situation* calling for a resuscitation following a cardiac attack.

There is a small window of recovery in such situations. Code Blue situation can rise anytime without any prior notice. When such a situation arises, it is important to rustle up a medical team in seconds, to counter the emergency situation. Sometimes this is not possible. And the patient dies.

Code grey

A message announced over a hospital's public address system, indicating the need for an emergency management response to

- (1) A combative person with no obvious weapon
- (2) Real or perceived act of *terrorism* from conventional, nuclear, biological or chemical agents, or other security emergency

Code yellow

A message announced over a hospital's public address system alerting the staff and the need to prepare for:

- (1) A pending emergency or *external disaster*—
e.g., multitrauma, major effects of storm, etc.
- (2) A severe weather alert

Code brown

A message announced over a hospital's public address system alerting the staff and the need to prepare for

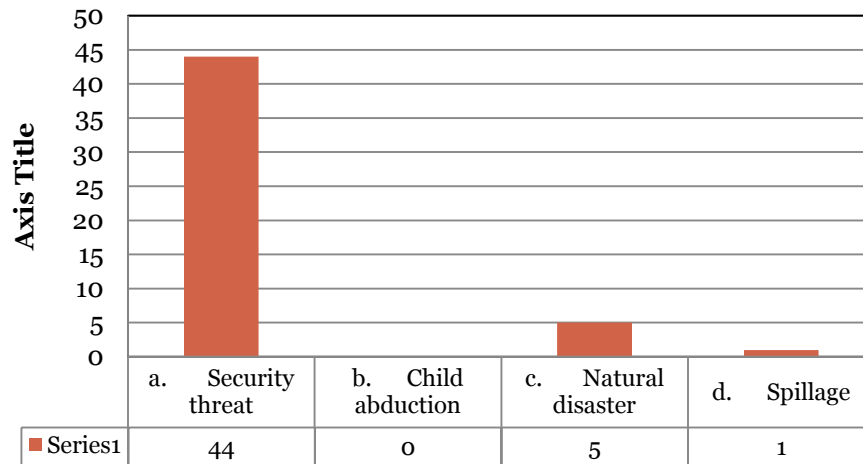
- *Chemical spill*

Code pink

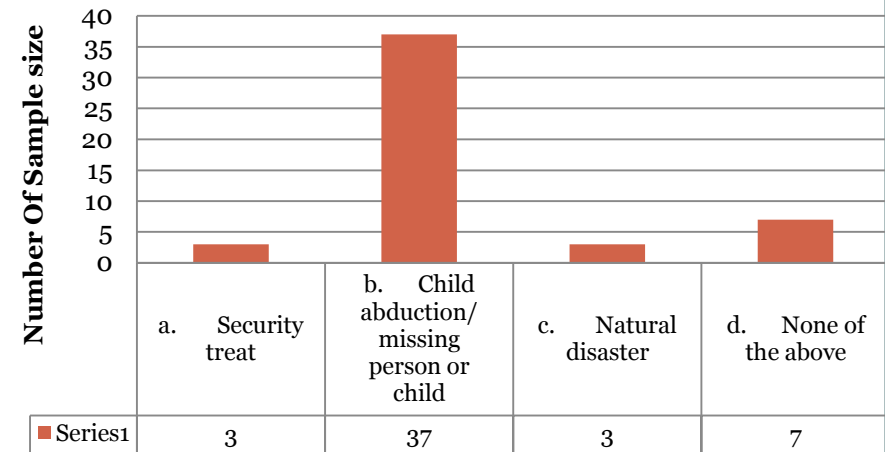
A message announced over a hospital's public address system warning the staff of

- (1) *an infant abduction*

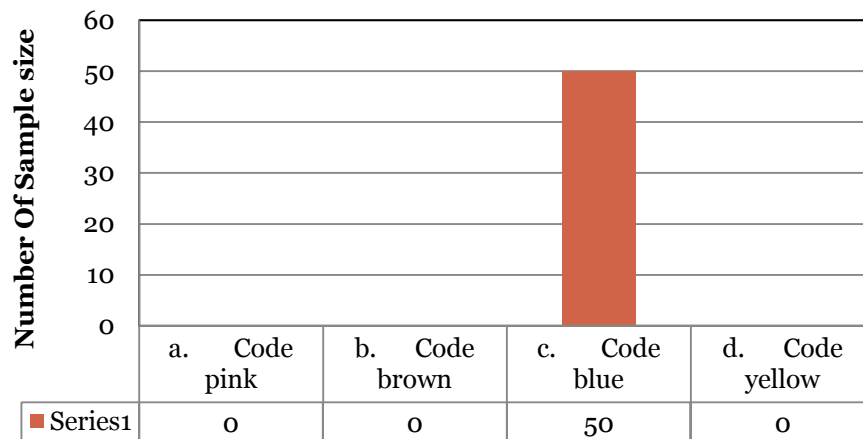
Code grey is announced when



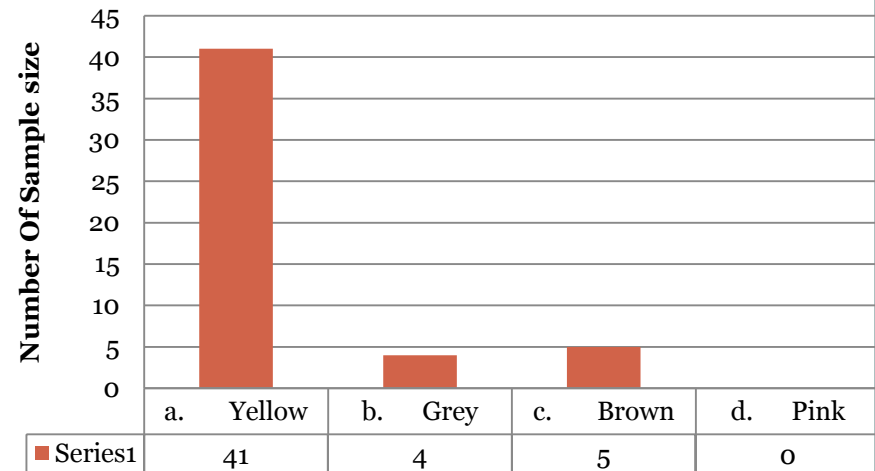
CODE PINK is for



Which Code is for medical emergency?



Code for Natural hazards

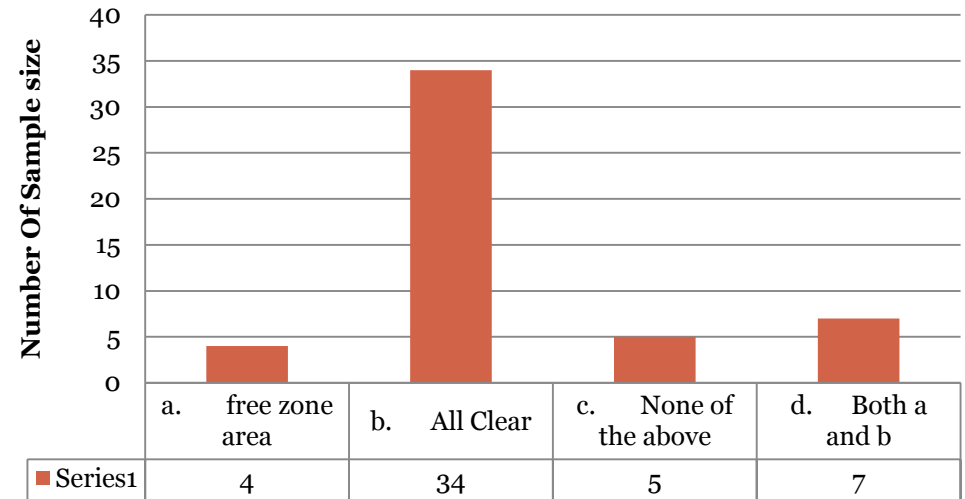


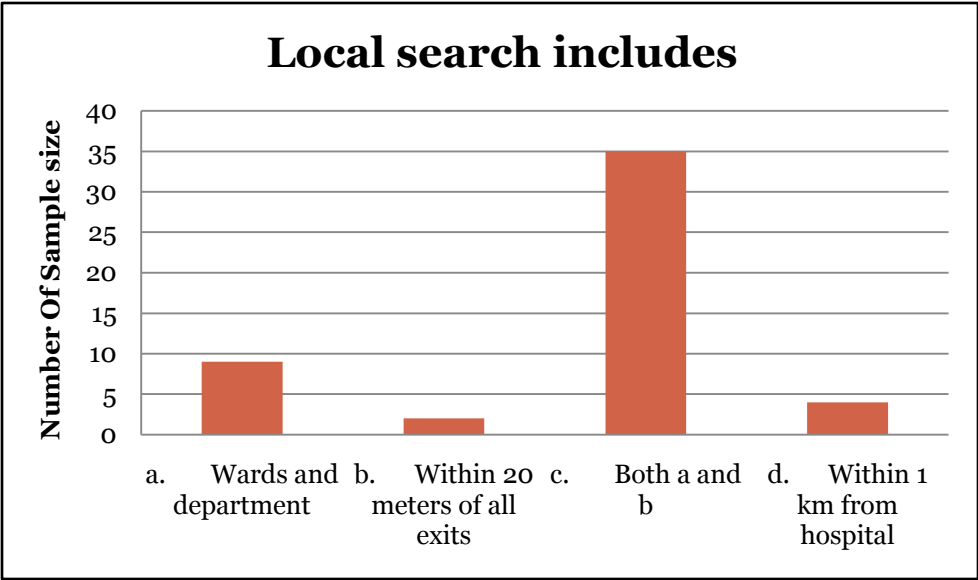
who mark the area as “free zone area”



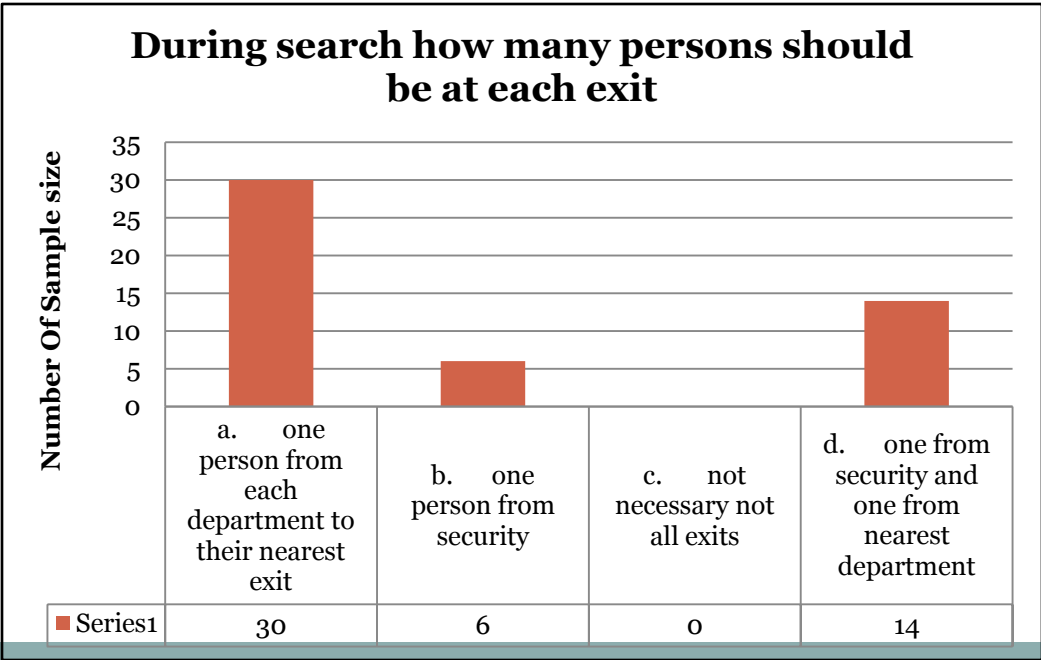
CODE GREY

what is final signal announced





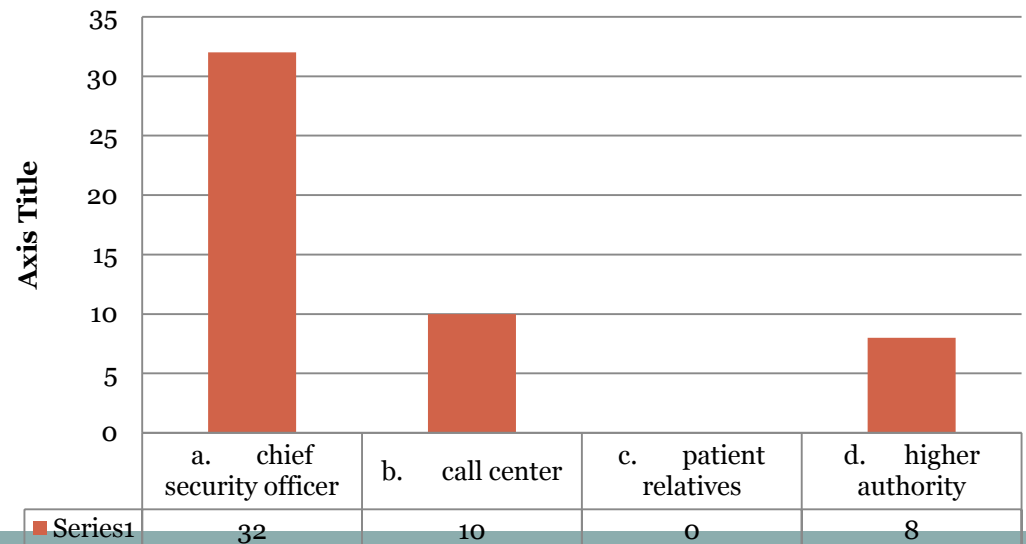
CODE PINK



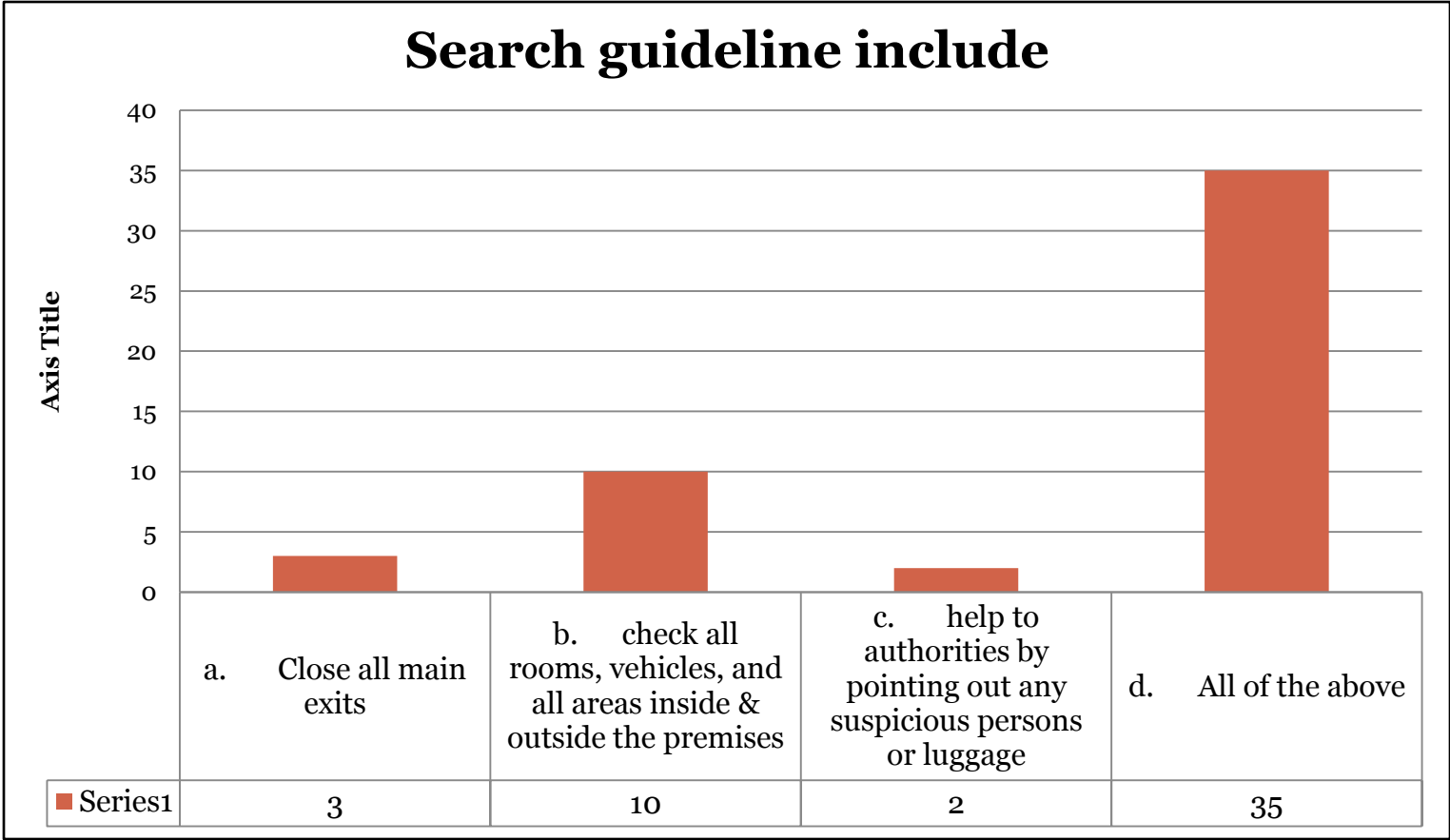
Who will decide person is missing and we need to announce code



Who will inform to police

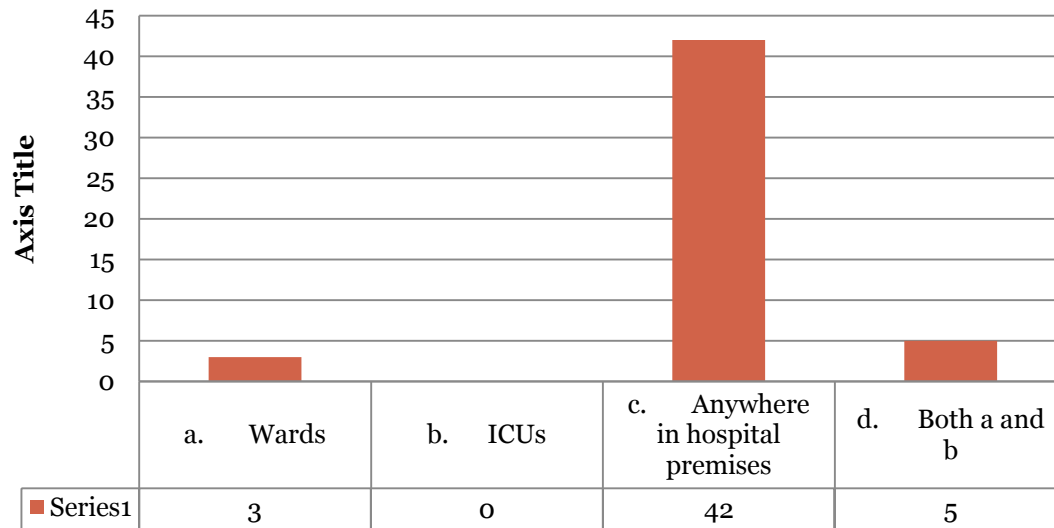


Search guideline include

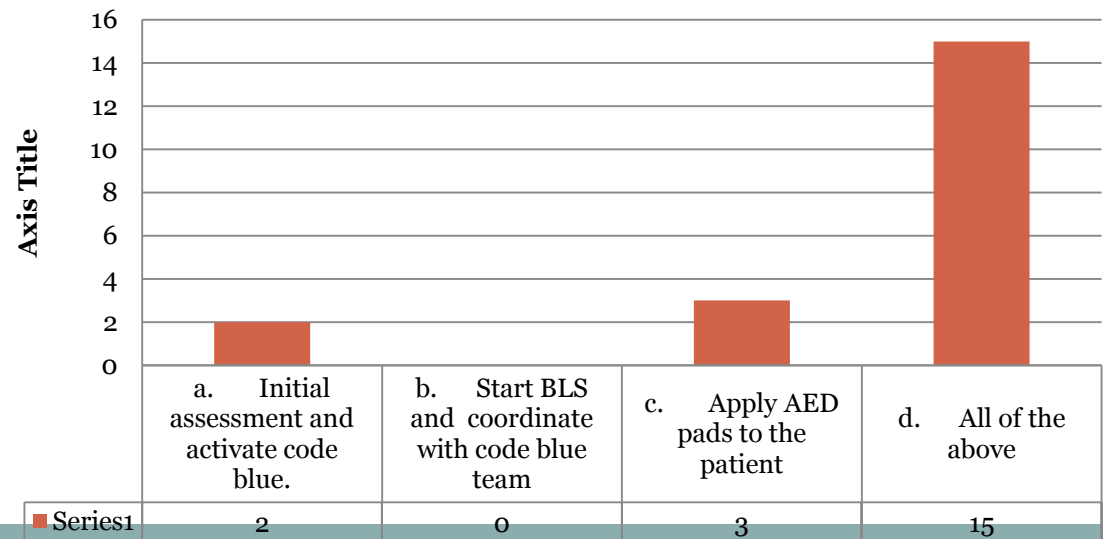


CODE BLUE

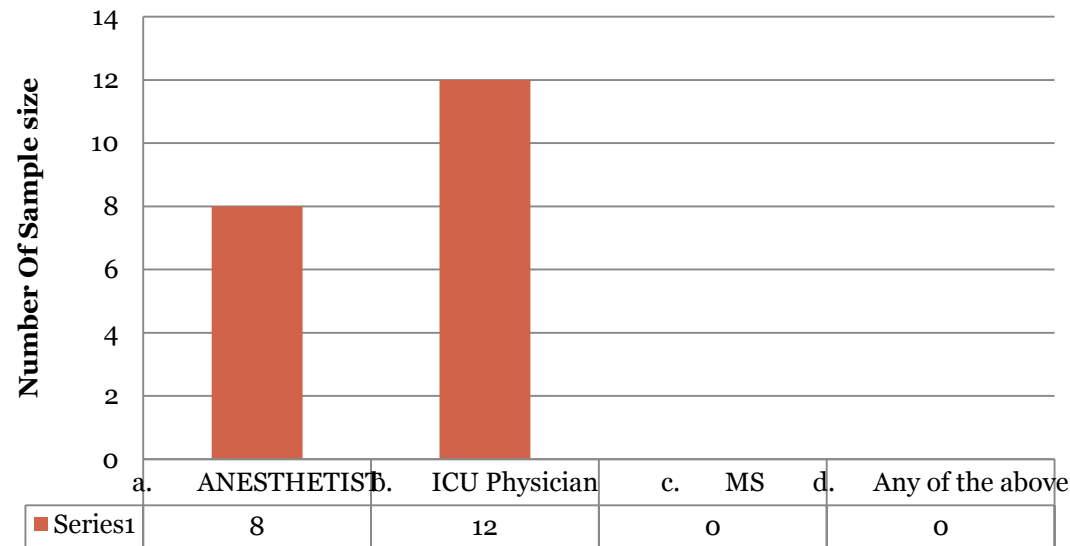
Where code blue can be announced?



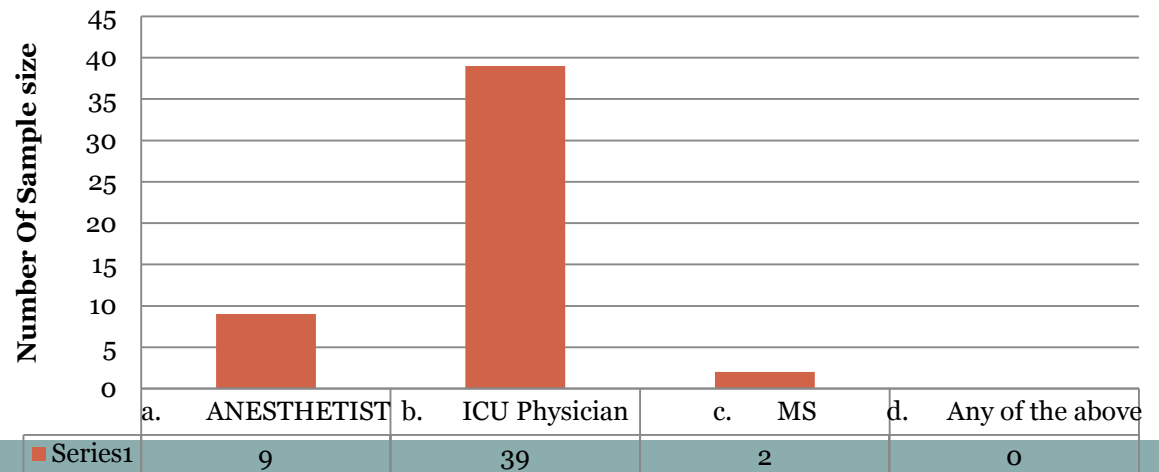
responsibilities of ward doctor



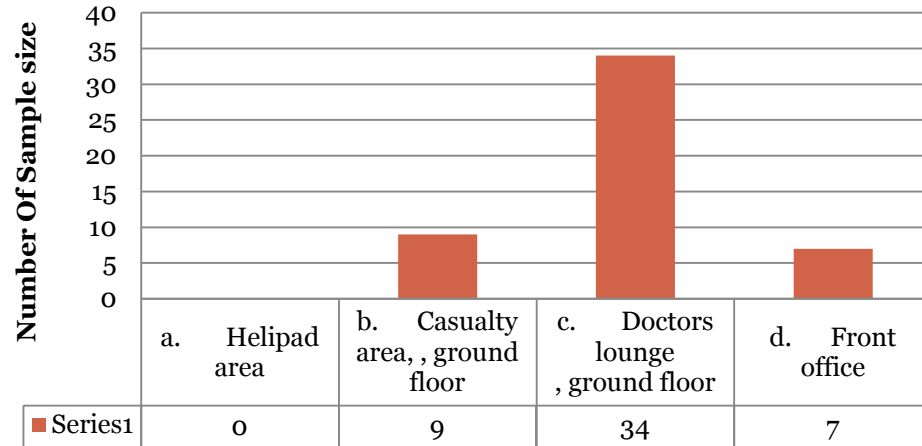
Team leader



Who shall call off the code blue or code termination

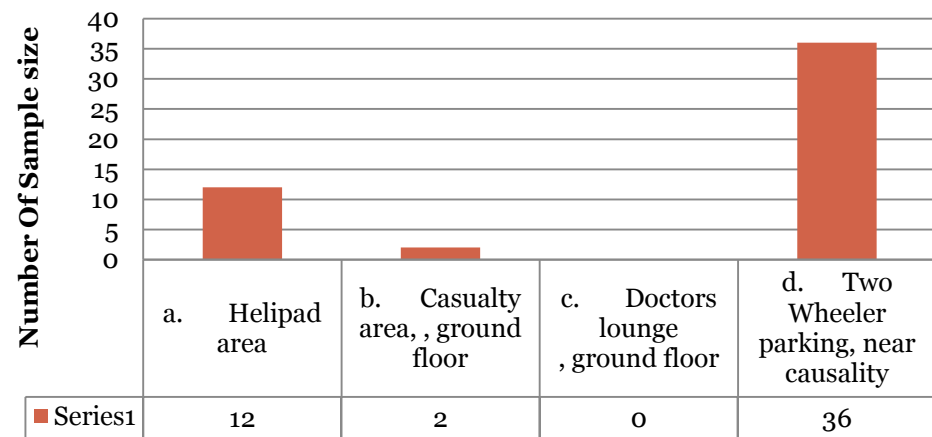


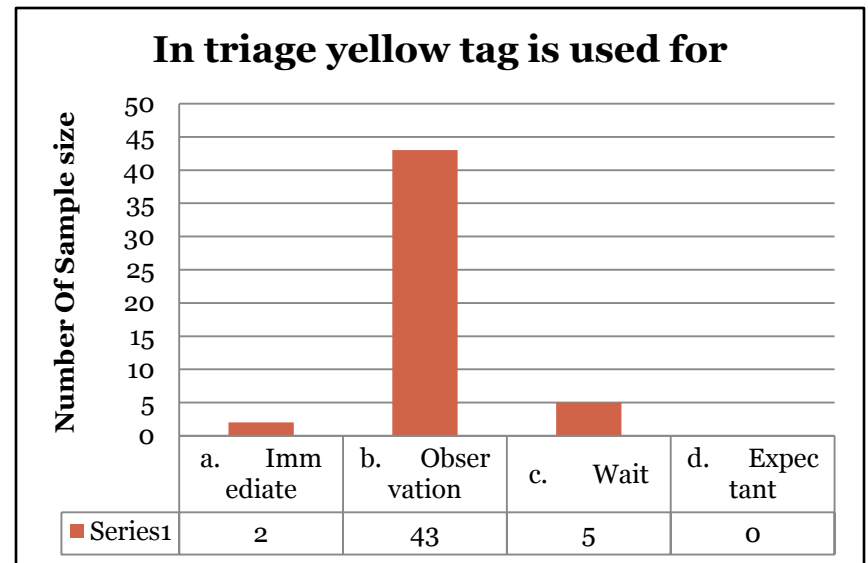
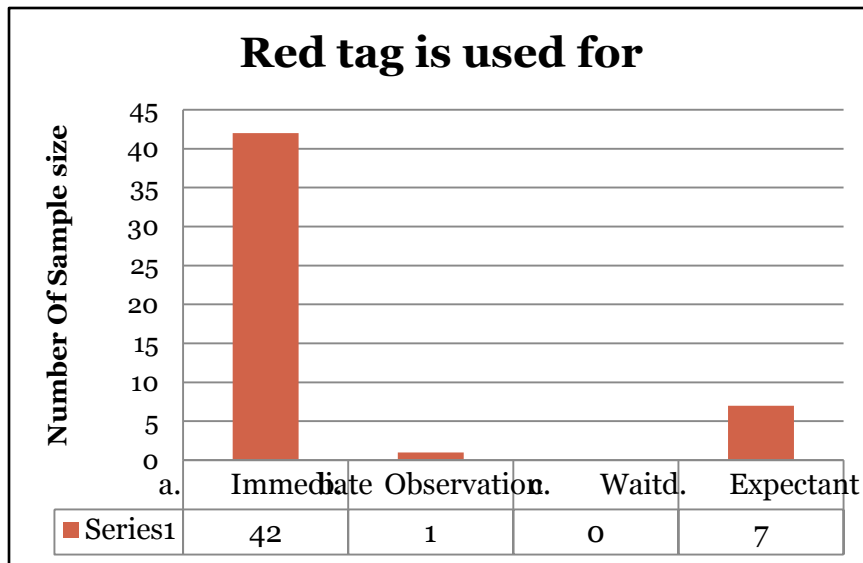
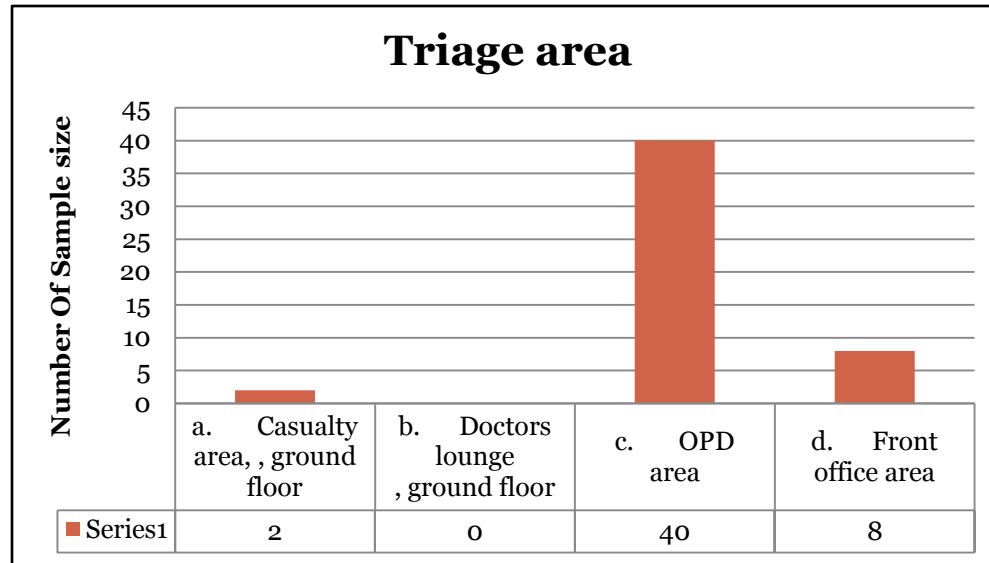
Command Center will be set up



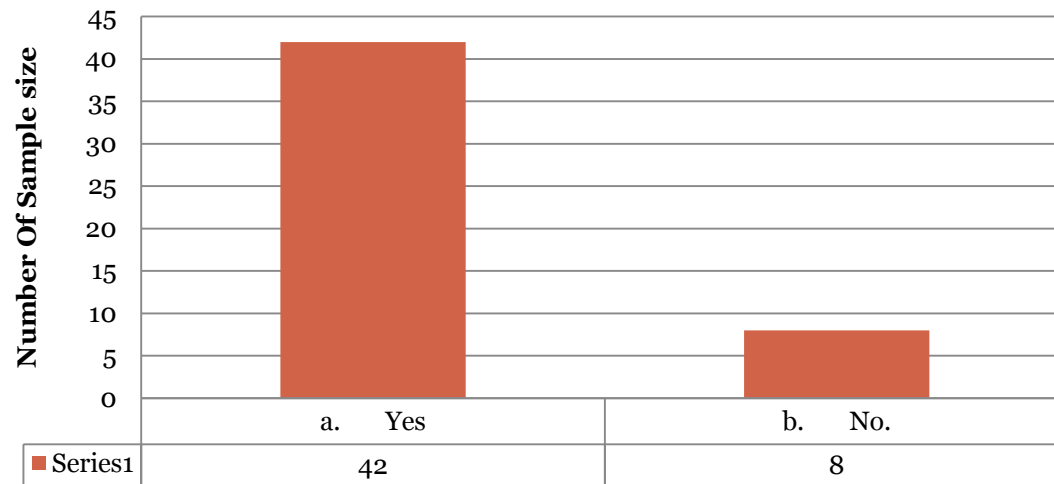
CODE YELLOW

Visitor Control Center will be set up a

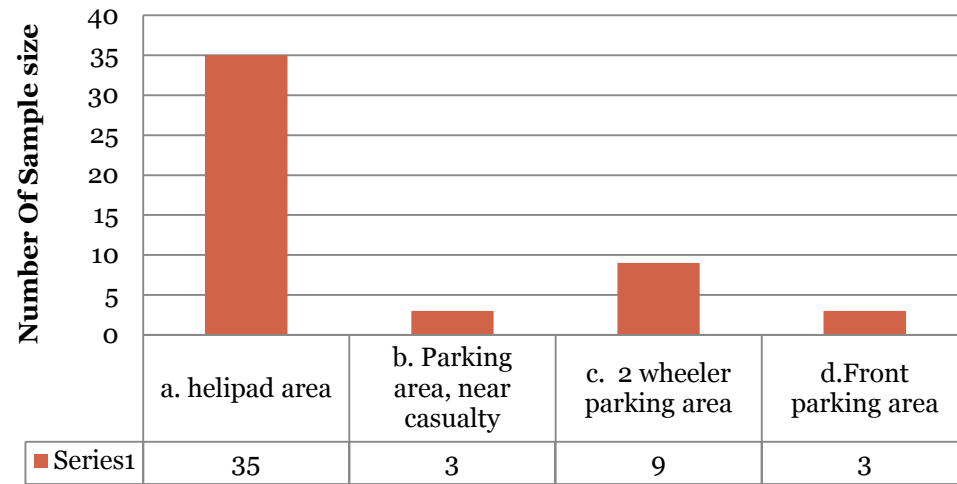




Should we check with local authorities to verify the disaster

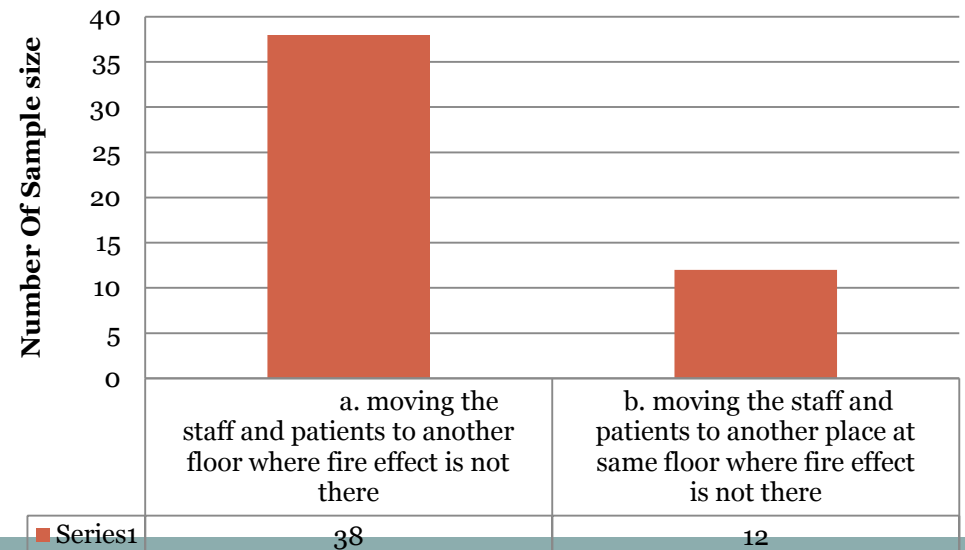


Where is the evacuation area of hospital at time of emergency



CODE RED

vertical evacuation



CONCLUSION AND RECOMMENDATIONS:

It was seen that training helps in updation of knowledge and awareness among staff. It also reduces the reaction time and help in proper handling of the situations. But it should be continuous and repetitive.

- ID card- emergency codes and emergency contact numbers can be written at back.
- Trainings should be schedule with proper interaction with departmental HOD for staff scheduling and timing to provide maximum staff for proper training.
- Reassessment of the training should be done under the supervision of HR department to get the original answers.

- Videos and snaps of mockdrills should be shown in auditorium for self assessment of staff- so that they can realize their mistakes and can improve their actions.
- It can also be used for appraisal of the staff and can be promoted as ‘role model’ for his good work.
- Reassessment score can be awarded with rewards- role model title and can be displaced in notice board.
- Training topics can be repeated to brush up their knowledge and help in retaining.
- Inter hospital trainings can be conducted to learn new ideas of evacuation.
- Trainings can also be done by experts – fire department, trauma centers, security agencies, etc for proper and improved handling of situations.

BIBLIOGRAPHY

1] Manuals from Apollo BSR Hospital.

2]<http://medical-dictionary.thefreedictionary.com/>

3] <http://www.euro.who.int/>

4] Hospital emergency response checklist - An *all-hazards* tool for hospital administrators and emergency managers

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THANK YOU...