

*Report of Workshop on  
Hospital Preparedness and Disaster Management*

*Conducted by*

*Trained Nurses' Association of India,  
Maharashtra State Branch*

*in Collaboration with*

*Disaster Management Department, BMC Mumbai*

*Workshop Funded by TNAI, New Delhi*



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*From 7<sup>th</sup> to 14<sup>th</sup> October 2022  
At City Institute of Disaster Management (CIDM),  
Parel Mumbai*

# Report of Workshop on Hospital Preparedness and Disaster Management October 2022

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**Trained Nurses Association of India,  
Maharashtra State Branch**  
*In collaboration with*  
**Disaster Management Department, BMC, Mumbai**

*Workshop on*  
**Hospital Preparedness for Disaster Management**

**:Venue:**  
City Institute of Disaster Management,  
Parel

**:From:**  
7th October 2022 to 14th October 2022



## Acknowledgement



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## TRAINED NURSES ASSOCIATION OF INDIA, MAHARASHTRA STATE BRANCH IN COLLABORATION WITH DISASTER MANAGEMENT DEPARTMENT, BMC ORGANISED A WORKSHOP ON

### **“Hospital Preparedness for Disaster Management”**

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Participants : Selected senior cadre nurses from BMC, GOVT & Private hospitals

No : 30

Date : 7<sup>th</sup> October 2022 to 14<sup>th</sup> October 2022

Venue : City Institute of Disaster Management, Parel

**Aim:** Participants will be able to manage the disasters through proper hospital preparedness thus reducing the mortality & morbidity

#### **Objectives:**

- develop concepts related to disasters,
  - comprehend the concept of activation of HDMP (hospital disaster management plan) & nurses role in it.
  - develop various competencies as how to transport mass casualties, CPR, use of fire extinguishers, modified slings & bandages etc. required to manage disasters.
  - Able to prioritize the care through Triage & tagging, early transportation & treatment.
  - Able to identify various types of casualties by understanding disaster epidemiology & thus able to activate nursing services accordingly.
  - Understand hospital evacuation planning process & the role of nurses in it.
  - Causes of fire in operation theatre & activation of fire safety measures.
  - Understand fire & fire safety at hospital & activation of necessary actions accordingly.
  - Understand how to conduct mock drill.
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## Day 1: 7<sup>th</sup> October 2022.

All delegates reported for workshop at 9.00am. after finishing with registration of delegates followed by breakfast, Pre-test was given to all delegates.

The inauguration of workshop was done by Mr. Mahesh Narvekar, Director, DMD, BMC. Followed by session on Mumbai's Disaster Management plan, Overview of it. How disasters are managed at Mumbai? The role of DMD in activation of services of main stakeholders of disasters.



**Pic 1: Inauguration function & speech by Mr. Narvekar, Director, DMD,BMC**

Session on “introduction of disaster management began by Mr. Rajendra lokhande, Shift Incharge, DMD,BMC. Sir discussed about basic principles to be kept in mind when exposed to disasters like not to panic, keep calm, call for help, do not run, walk fast, do not spread rumors, do not believe on rumors and apply presence of mind. Sir, discussed about hazards, vulnerability, exposure & risk. Once these concepts were clear, delegates were introduced to various types of disasters.



**Pic 2: Lokhande Sir's presentation on basics of DM**

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Post lunch, the session began by Mrs Rashmee Lokhande, Chief officer,DMD,BMC on “Disaster Management Cycle.” Madam, oriented delegates on various steps of preparedness before disaster & post disasters. Prevention, Mitigation & preparedness before disasters & response, recovery, rehabilitation post disasters.



**Pic 3: Madam Rashmee Lokhande, Chief officer, DMD, BMC**

## **Day 2: 8/10/2022**

Mr Rajesh Shirke, Chief Safety Soldier, Milestone safety Consultancy services, spoke on fire safety & emergency preparedness at hospital, the preventive and corrective measures & nurses' role in it. Sir gave lots of examples of fire at hospitals & how it was managed.



**Pic 4: session on fire safety by Mr Rajesh Shirke, Chief Safety Soldier**



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Following this, the Session was taken by Mr. D.M Patil, Sr. Station officer, Mumbai Fire Brigade on “Smoke Inhalation & its management.” Sir discussed about what is fire, fire triangle, types of smoke & its effect on body. What first aid to be given to smoke victims, prevention & early identification of smoke, what action to be initiated by first responders, etc.



**Pic 5: Session on “Smoke Inhalation” by Mr D.M.Patil, Sr Station Officer, MFB**

Post lunch, all the delegates were taken “*Integrated Control & Command center*” of Mumbai Fire Brigade head quarter at Byculla. Delegates were given orientation of command center by fire officer. And explained about how the system is activated once MFB receives the call about fire and other emergencies, how the verification of call is done and how the local fire brigade is informed by control room and required help is dispatched immediately.



**Pic 6: Visit to “Integrated Command & Control Center” Mumbai Fire Brigade.**

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After the MFB control room visit, delegates were taken to Disaster Management Control Room, (DMD) ,BMC at head quarters. Initially all the delegates were oriented to functioning of control room by Madam Rashmee Lokhande, Ch Officer, DMD, BMC. All the delegates were taken inside the control room and shown activation of control room. Video wall showing live feeds from various cameras installed all over Mumbai and how the emergencies are monitored from control room.



**Pic 7: Visit to “Disaster Management Control Room” BMC HQ**

### **Day 3: 10/10/2022**

Day began with session on “Disaster Epidemiology & Pattern of Injury”. The session was taken by Mrs. Surekha Sawant, former Matron, B.Y.L.Nair Ch Hospital & faculty of Post Graduate Diploma in Disaster, Fire & Industrial safety Management (PGDDF&ISM). It was explained in detail about what is epidemiology and what is disaster epidemiology, its application in management of disasters, various types of predicted pattern of injuries and how it helps the health care team in getting ready for managing disasters.



**Pic 8: Mrs. Surekha Sawant taking session on “Disaster Epidemiology & Pattern of Injuries”**

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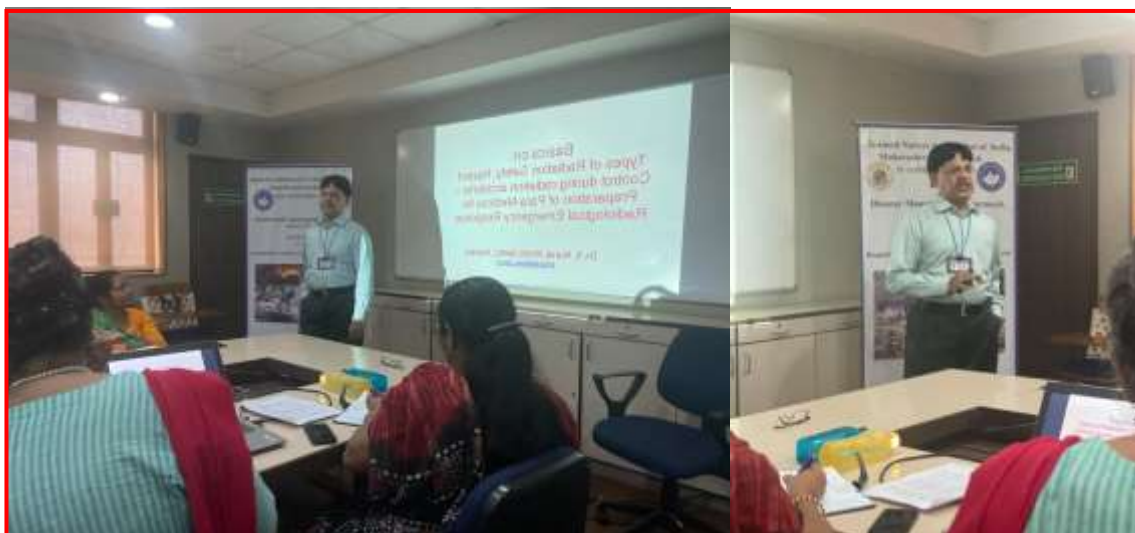
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Next session was taken by Dr Sarika Jambhore, Nodal officer, disaster management, B.Y.L.Nair Ch Hospital, Mumbai on “Hospital Disaster Management Plan”. Various important components of HDMP like committees and its roles and responsibilities, hazard identifications and safety assessment, resource inventories and action cards were discussed in details.



**Pic 9: session on “Hospital Disaster Management Plan” by Dr Sarika Jambhore.**

Post lunch session on “Introduction to CBRN disasters” was taken by Dr. S. Murli, Head, Radiation Safety, BARC. Sir discussed on types of radio-contaminants and radiation hazards and its radiation effects. In length, there was discussion on Acute radiation syndrome and how to manage radiation burns and radio contamination.



**Pic 10: Session by Dr S.Murli on “ Introduction to CBRN disasters”**



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## Day 4 : 11/10/2022

Visit to gallery at CIDM was arranged for delegates, where they were shown the various types of disasters in simulation form earthquake tectonic plates movement, cyclones, CBRNE disasters etc. finally what emergency kit to be kept ready at home was demonstrated.



**Pic 11: Emergency kit to be kept ready at home.**

Next session was taken on “Medicolegal aspects of disaster victims & Management of dead bodies” by Dr. Shailesh Mohite, Dean, Dr R.N.Cooper Hospital. He explained about various examples of mass casualties in Mumbai & how it was handled by forensic medicine dept & police. He discussed about identification, storage, retrieval & disposal of dead bodies. Delegates had so many questions at the end of sessions, which were clarified by Dr. Mohite.



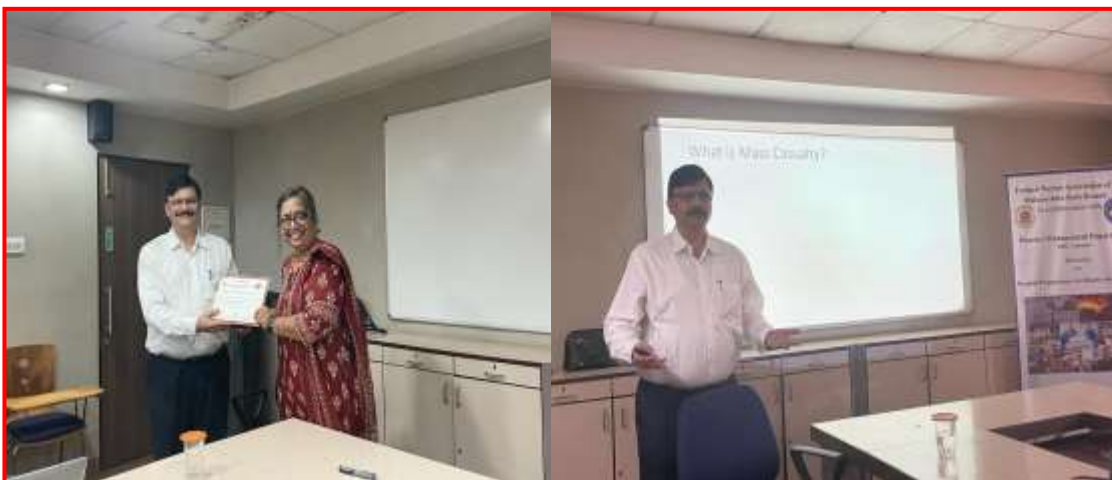
**Pic 12: session by Dr Shailesh Mohite on “Medico-legal issues during disasters & Management of dead bodies,”**

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Post lunch, session was taken by Dr Satish Dharap, Professor & Head, Department of Surgery, B.Y.L.Nair Ch Hospital, Mumabi. What is mass casualty, challenges faced during mass casualty, what is triage & how it is done, where to start, how to triage, tag the victims, immediate treatment & transportation to definite care centers as hospital were points discussed with delegates.

A Video on “SMART” ie Simple triage and Rapid treatment” was shown to delegates.



**Pic 13: session by Dr Satish Dharap om “Handling of mass casualty & Triage,”**

### **Day 5: 12/10/2022**

A session on “Crowd Management” was taken by Mr. R.Lokhande sir. Initially sir showed them pictorially disasters happened due to no crowd management. Sir discussed about types of crowds, difference between mob & crowd. How to handle it. The session was well appreciated by everyone.



**Pic 14: Session on “Crowd Management” BY Mr Rajendre Lokhande sir.**

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Next session was taken On “Disaster Nursing” by Mrs Surekha Sawant, former matron, B.Y.L.Nair Ch Hospital, delegates were told about nurses role in managing disasters. Preparations to be done before disasters like development of various competencies, resource inventory, nurses’ role at the time of disasters and post disaster.



**Pic 15: Session on Disaster Nursing by Mrs Surekha Sawant.**

Post Lunch, the session on CPR was taken by Dr. Deepak Dalvi, EMS Consultant. He discussed on the new guidelines: CAB-D, identification of patient and initiation of CPR. Made sure that all delegates understand the difference between heart attack & cardiac arrest.



**Pic 16: session on “Hands on CPR” by Dr Deepak Dalvi**



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## Day 6: 13/10/2022

Session on “post traumatic stress disorder” was taken by Dr. Alka Subramanyam, Associate professor, Department of Psychiatry, B.Y.L. Nair Hospital. She gave live examples of many disasters having universal trauma along with its management. Also discussed on identification of patients with PTSD and its management.



**Pic 17: Presentation by Dr Alka Subramanyam**

The second session was taken by Mr. V.N. Sangle, Assistant Divisional Fire Officer, Mumbai Fire Brigade on Sir presented on hospital evacuation during internal disasters. Sir discussed on stages of combustion, methods of extinction, types of evacuation, roles of different teams.



**Pic 18: Session on “Patient Evacuation” by Mr V N Sangle, Assistant DFO, MFB**

Following this lecture on patient evacuation, Mrs. Surekha Sawant also discussed on nurses role in patient evacuation during disasters. Madam also discussed on types of evacuation ie Horizontal, Vertical and stand in. the care to be taken during patient transportation.

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Post lunch session began on “Patient transportation during mass casualties” by Mr. Pravin Brahmhadande, Bhandup Water Complex, BMC. Sir demonstrated various method of lifting and transporting casualties using locally available things like bamboo, blankets and with the help of people around. All delegates were made to practice these methods.



**Pic 19: Mr Bhrahmdande taking patient transport**

### **Day 7: 14/10/2022**

Delegates were given hands on experience of handling Fire Extinguishers by Me Bharatkumar Phunage, who is CRO at DMD, MCGM. First sir discussed about types of Fire extinguishers, where it can be used, thus types of fire. Description of fire extinguishers as what is written on it, expiry date, its gauge reading etc. After that all delegates were taken down in open space & every delegate was made to use ABC type & Co2 type of fire extinguisher. It was very useful session.



**Pic 20 : Mr Bharatkumar taking hands on for use of fire extinguisher from each delegate**

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Next session was on “conducting Mock Drill” by Mr. D.M. Patil, Sr fire officer” Sir discussed about identification teams required for mock drill, their roles and responsibilities. What all things to be observed first, what care to be taken during mockdrill. Also insisted on importance of assembly point and head count.



**Pic 21: Mr D.M.Patil, Sr Station Officer, MFB taking session on Mock Drill.**

Post this session, all delegates were assembled in the auditorium for valedictory session. Madam Rashmee Lokhande, Ch officer,DMD,BMC was the chief guest for the programme. Madam Anita Deodhar, former National President, TNAI and Madam Jyotsna Pandit, Former state President, TNAI along with Mr Rajendra Lokhande, shift incharge,DMD,BMC graced the occasions.Executive committee members Mrs Akasna Pande, Vice president, Mrs Bharati Veer, Treasurer along with Mrs Akansha Pande, Chairperson, Nurses welfare committee, were also present for the programme.

Report presentation of the 7 days programme was done by Dr. Bharti Veer. All dignitaries were welcomed by floral tribute. It was followed by response from delegates. Certificates were distributed to all participants by dignitaries. Brief speech was given by Lokhande sir, Pandit Madam, Deodhar madam and finally followed by speech by Mrs Rashmee Lokhande, chief guest of the programme. Vote of thanks was given by Mrs Akansha Pande, Vice president, TNAI, Maharashtra state branch. Programme was over by National Anthem.



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**Pic 23: Glimpses of Valedictory session.**

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## Workshop on Hospital Preparedness for Disaster Management” From : 7<sup>th</sup> October 2022 to 14<sup>th</sup> October 2022 Venue: City Institute of Disaster Management, Parel

### Programme Schedule

<b>Date &amp; Day: 7/10/2022, Friday Day 1</b>		
<b>Timings</b>	<b>Topics</b>	<b>Resource Person</b>
9.00 to 10.00am	Registration & Tea	State branch Executives
10.00 to 10.30am	INAUGURATION	
10.30 to 12.30pm	Disasters: Global, Indian & Mumbai's Scenario Overview of Mumbai's DM plan	Mr Mahesh Narvekar, Director, DMD, MCGM
12.30 to 1.30pm	Introduction to Disaster Management	Mr Rajendra Lokhande Shift Incharge, DMD.MCGM
1.30 to 2.30pm	LUNCH	
2.30 to 4.30pm	Disaster Management Cycle	Mrs Rashmee R. Lokhande, Chief Officer, DMD,MCGM.
<b>Date &amp; Day: 8/10/2022, Saturday Day 2</b>		
<b>Timings</b>	<b>Topics</b>	<b>Resource Person</b>
9.00 to 11.00am	fire safety at Hospitals: Preventive and corrective measures	Mr Rajesh Shirke, Chief Safety Soldier, Milestone, safety consultancy services.
11.00 to 1.00pm	Smoke Inhalation	Mr D.M.Patil, Sr Station Officer,MFB
1.00 to 1.30pm	LUNCH	
1.30 to 2.30pm	Visit to Control & Command centre,MFB	MFB officer
3.00 to 4.00pm	Visit to Disaster Management Department, MCGM.	Mrs Rashmee Lokhande Chief Officer, DMD,BMC
<b>Date &amp; Day: 10/10/2022, Monday Day 3</b>		
<b>Timings</b>	<b>Topics</b>	<b>Resource Person</b>
9.00 to 11.00am	Disaster Epidemiology and pattern of Injuries	Mrs Surekha Sawant Former Matron, B.Y.L.Nair Ch Hospital
11.00 to 1.00pm	Hospital Disaster Management plan	Dr Sarika Jambhore, Nodal officer, Disaster Management, B.Y.L.Nair Ch Hospital.
1.00 to 1.30pm	LUNCH	
1.30 to 4.30pm	Introduction to CBRNE disasters	Dr S.Murli, Head, Radiation safety,BARC

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<b>Date &amp; Day: 11/10/2022, Tuesday Day 4</b>		
<b>Timings</b>	<b>Topics</b>	<b>Resource Person</b>
9.00 to 10.30am	Visit to Art Gallery, CIDM	Ms Akshita Tambe, Curator, Art gallery, CIDM
10.30am to 12.30pm	Medicolegal issues during disaster & Management of dead bodies.	Dr Shailesh Mohite, Dean, Dr R.N. Cooper Hospital
12.30 to 1.00pm	Visit to art gallery....Continued	Ms Akshita Tambe
1.00 to 2.00pm	LUNCH	
2.00 to 4.00pm	Handling of mass casualties and triage	Dr Satish Dharap Professor & Head, Dept of surgery, B.Y.L.Nair Ch Hospital.
<b>Date &amp; Day: 12/10/2022, Wednesday Day 5</b>		
<b>Timings</b>	<b>Topics</b>	<b>Resource Person</b>
9.00 to 11.00am	Crowd Management	Mr Rajendra Lokhande, Shift Incharge, DMD, CIDM
11.0 to 1.00pm	Nursing Management during disasters	Mrs Surekha Sawant Former matron, B.Y.L.Nair Ch Hospital
1.00 to 2.00pm	LUNCH	
2.00 to 4.00pm	Hands on CPR	Dr Deepak Dalvi EMS Consultant
<b>Date: 13/10/2022, Thursday Day 6</b>		
<b>Timings</b>	<b>Topics</b>	<b>Resource Person</b>
9.00 to 11.00am	Post Traumatic Stress Disorders	Dr Alka Subramanyan Professor, Dept of Psychiatry, B.Y.L.Nair Ch Hospital
11.00 to 1.00pm	Patient evacuation during disasters affecting hospitals	Mr V.N.Sangle, Assistant DFO, MFB
1.00 to 2.00pm	LUNCH	
2.00 to 4.00pm	Patient transportation during mass casualties	Mr Brahmhadande/Mr Lokhande
<b>Date: 14/10/2022, Friday. Day 7</b>		
<b>Timings</b>	<b>Topics</b>	<b>Resource Person</b>
9.00 to 11.00am	Hands on "Fire Extinguisher"	Mr Bharatkumar Phunge, CRO, DMD, MCGM.
11.00 to 1.00pm	How to conduct mock drill	Mr D.M.Patil, Sr Station officer, MFB.
12.00 to 1.00pm	Crowd management	Mr Lokhande Rajendra
1.00 to 2.00pm	LUNCH	
2.00 to 3.00pm	Group activity: table top exercise	Mrs Bharati Veer, ANS Tata Hospital
3.00 to 4.00pm	Valedictory session	State Executives.



