

National Health Mission -- Tamil Nadu Accident and Emergency Care Policy -- Approved - Orders - Issued.

Health and Family Welfare (EAP II-2) Department

G.O(Ms) No.266

Dated :10.06.2019 Vigari, Vaigasi - 27 Thiruvalluvar Aandu 2050

Read:

From the Mission Director, State Health Society, Tamil Nadu, Ex-Officiao Commissioner of Trauma Care, Chennai Letter No. 2868/TAEI/NHM/2019, Dated: 15.02.2019.

ORDER:

In the letter read above, the Mission Director, National Health Mission has stated that, the predominant cause of mortality and morbidity is Non Communicable Diseases. Tamil Nadu is the seventh most populous and highly urbanized in the country with 14,257 km of National and State highways. In 2016, the State accounted for 17,311 deaths due to Road Traffic Injury (RTI) which is 12% higher when compared to 2015. In the country, the State constitutes to a share of 15.9% injuries and 10.7% deaths (MoRTH, 2015). As per the Global Disease Burden report 2017, the DALY's lost due to Injuries is 13.5% (Unintentional injuries, Self harm and Interpersonal Violence and Transport Injuries). Road Traffic Accident (RTA) has been an overwhelming Public health challenge of the era disproportionately killing and maiming many in the economically productive age group. It results in serious physical, mental and psycho-social impairment, bringing huge catastrophic expense to the family, crashing down its peace and security.

2. The Mission Director, National Health Mission has also stated that the incidence of Accidents, Infarctions, Cerebro Vascular Accidents (Stroke), Accidental and Deliberate (Self Harm) Poisoning and Burns are increasing along with increased prevalence of those with residual morbidity due to these conditions, it is imperative to pay more and focused attention to these conditions. Hence, there is need of a dedicated programme aimed at addressing these conditions at all levels of health care viz., Primordial, Primacy, Secondary, Tertiary and Quarternary. The Mission Director, National Health Mission has further stated that, the Tamil Nadu Accident and Emergency Care (TAEC) Policy has been conceptualized and created and this will be implemented through Tamil Nadu Accident and Emergency Care Initiative and requested to approve the Tamil Nadu Accident and Emergency Care Policy.

3. The Government after examination, have decided to approve the Tamil Nadu Accident and Emergency Care Policy as annexed to this Government Order.

(BY ORDER OF THE GOVERNOR)

BEELA RAJESH SECRETARY TO GOVERNMENT

To
The Mission Director, State Health Society, Chennai-600006.
Copy to

The Finance (Health-I) Department, Chennai – 600 009.

The Health and Family Welfare(Data Cell) Department, Chennai-9
Stock File / Spare Copy

//Forwarded by Order//

SECTION OFFICER

ANNEXURE

(G.O(Ms)No. 266 Health and Family Welfare (EAP II-2) Department, dated: 10.6.2019)

Tamil Nadu Accident and Emergency Care Policy

Tamil Nadu Accident and Emergency Care Policy

Need for TAEC Policy

Tamil Nadu has been the Role Model for Various states in implementing a robust and efficient health care setup. The State is also known for introducing various pro people scheme and implementing them successfully. Following the tremendous success in reducing mortality and morbidity, such schemes have been later adopted by other states as well the centre. Use of TNMSC in Drug Procurement, CEmONC Centres, Cadaver Organ Transplant Programme, SNCU for few such schemes.

Efficient and Effective Public Health System has reduced infectious diseases and now the predominant cause of mortality and morbidity is Non Communicable Diseases.

The Burden of RTA in Tamil Nadu:

The State of Tamil Nadu is the seventh most populous and highly urbanized in the country with 14,257 km of National and State highways. In 2016, the State accounted for 17,311 deaths due to Road Traffic Injury (RTI) which is 12% higher when compared to 2015. In the country the State constitutes to a share of 15.9% injuries and 10.7% deaths (MoRTH, 2015). As per the Global Disease Burden report 2017¹, the DALY's lost due to Injuries is 13.5 % (Unintentional injuries, Self harm and Interpersonal Violence and Transport Injuries). RTA has been an overwhelming Public health challenge of the era disproportionately killing and maiming many in the economically productive age group. It results in serious physical, mental and psycho-social impairment, bringing huge catastrophic expense to the family, crashing down its peace and security.

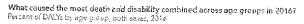
Paradigm Shift in Mortality and Morbidity Patterns

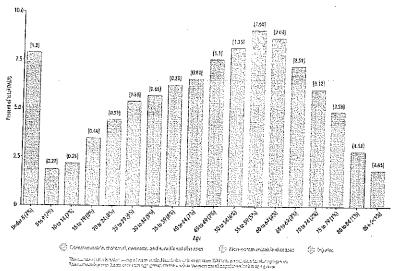
Other Non Communicable diseases are also increasing in incidence due effective management of communicable diseases as well as due to the changing socio economic profile of the state

Thirty years ago, the predominant care needed in a Hospital OP / Emergency Department was tackling Communicable Diseases. Today, there is a paradigm shift and the predominant demand is to tackle Non Communicable diseases.

Because of the increasing incidence of Accidents, Infarctions, Cerebro Vascular Accidents (Stroke), Accidental and Deliberate (Self Harm) Poisoning and Burns along with increased prevalence of those with residual morbidity due to these conditions, it is imperative to pay more and focused attention to these conditions. Hence there is need of a dedicated programme aimed at addressing these conditions at all (Primordial, Primay, Secondary, Tertiary and Quarternary) levels of health care.

Hence Tamil Nadu Accident and Emergency Care (TAEC) Policy has been conceptualised and created and this will be implemented through Tamil Nadu Accident and Emergency Care Initiative

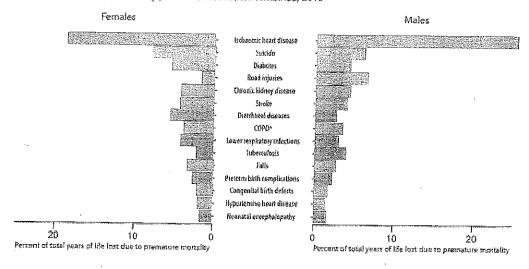


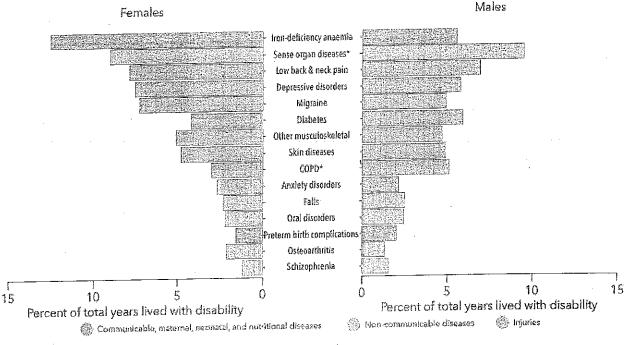


Proportion of total disease burden from:

Premature death: 62.0% | Disability or morbidity: 38.0%

What caused the most years of life lost, by sex, in 2016? Top 15 causes of YLLs, ranked by percent for both sexes combined, 2016



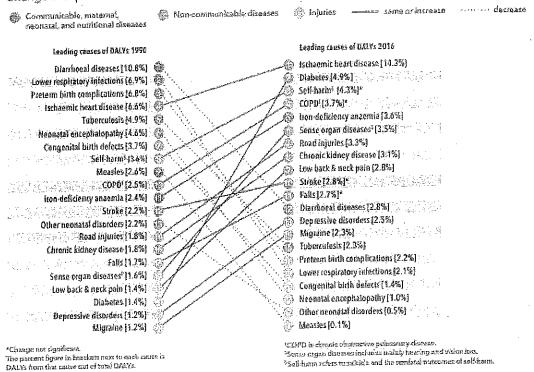


"COPD is dwente obstructive pedicionary disease.
"Sense organishaseses includes makely heading and althorologic.

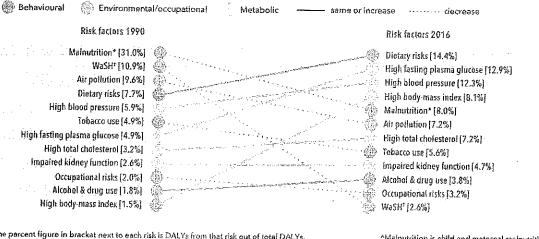
Proportion of total disease burden from:

CMNNDs: 20.4% | NCDs: 65.3% | Injuries: 14.3%

How have the leading causes of death and disability combined changed from 1990 to 2016? Change in top 15 causes of DALYs, both sexes, ranked by number of DALYs, 1990-2016



What risk factors are driving the most death and disability combined? Contribution of top 10 risks to DALYs number, both sexes, ranked by number of DALYs, 1990-2016

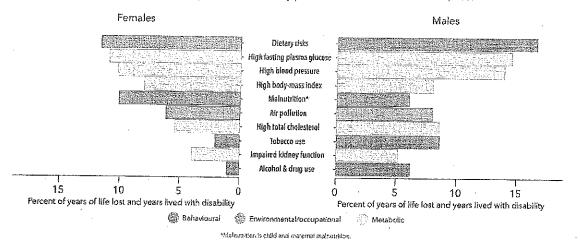


The parcent figure in bracket next to each risk is DALYs from that risk out of total DALYs.

*Mainutrition is child and maternal mainutrition.
*WaSH is unsale water, sanitation, and handwashing.

How did the risk factors differ by sex in 2016?

Percent of total DALYs attributable to top 10 risks, ranked by percent for both sexes combined, 2016



Aims and Objectives of Tamil Nadu Accident and Emergency Care (TAEC) Policy

The Various Aims of Tamil Nadu Accident and Emergency Care (TAEC) Policy are

- 1. To Initiate and Maintain and Health Care Setup to provide Comprehensive Service to All Medical and Surgical Emergencies aimed at Reducing the Mortality and Morbidity
- 2. To Develop and Implement Protocols for Uniform and High Quality Care in Emergency Departments across All Hospitals
- 3. To Develop and Implement Protocols for effective Management to Reduce Mortality and Morbidity associated with Non Communicable Diseases, especially (1) Accidents and Trauma (2) Myocardial Infarction (3) Cerebro Vascular Accidents (Strokes), (4) Burns (5) Poisoning (6) Paediatric Emergencies
- 4. To Provide the above services
 - a. based on Clinical Needs for all patients
 - b. with Compassion
 - c. with highest standards of excellence and professionalism

d. working across organisational boundaries and in partnership with other organisations in the interest of patients, local communities and the wider population

e. in the most effective, fair manner with sustainable use of finite resources.

f. being accountable to the public, communities and patients

The Various Objectives of Tamil Nadu Accident and Emergency Care (TAEC) are

1. To attain the SDG Goal: To halve the number of deaths and injuries from road traffic accidents by the year 2020 globally.

2. To attain the State Goal: To achieve halve the number of deaths (8500) and

injuries from road traffic accidents by year 2023 in Tamil Nadu State.

 To Standardize Managements of All Medical and Surgical Emergencies into predefined and distinct stages and to have specific and clear protocols for management in each stage

4. To Triage Patients into Red, yellow and Green Categories and to institute

appropriate management

5. To ensure definitive treatment for the injured within the Golden Hour and to

have "Time Norms" for procedures in the Emergency Department

6. To ensure that all patients who get Pre Arrival Intimation regarding Stroke / Head Injury be be shifted directly to the CT Room from Ambulance and only after the CT Brain has been taken, the patient should be shifted to ER. The Neurosurgeon / Neurologist / Surgeon / Other Doctors may look directly at the CT Monitor and begin prompt treatment as per TAEI and SCRIPT Protocols without waiting for the report. The CT Film may be handed over to the patient or Relative if they pay for it. If the Patient or Relatives do not pay, the Cost can be met from the Institutional Fund (as is being done for Unknown Patient)

7. To Start the Process of Rehabilitation as early as possible

8. To identify and designate TAEI Centres on the basis of need (caseload) and location (national highways, Connecting two capital cities, Connecting major cities other than capital city, Connecting ports to capital city, Connecting industrial townships with capital city etc) as Level-1, Level-2, Level-3 centres with Assured Care in Each Centre based on the level

9. To Augment the Hard (Civil Works, Equipments, Consumables, Drugs) and Soft (Human Resources- New Posts as well as Filling Vacancies, Training) Infrastructure in these centres as per need and implementation of Standard

Operating Procedures in these centres

10. To install the Basic Life Support Ambulances Level -IV on an evidence based approach along the Highways and Advanced Life Support Ambulance at Trauma Care Facilities for inter facility transfer and expand the ECC facilities provided already to all high accident density areas.

11. To initiate the development of a state-wide referral network with both public and private hospitals through empanelment of CMCHIS Insurance Scheme with

forward and backward linkages.

12. To establish "State Trauma Surveillance Centre" with real time reporting of accident & trauma cases for the Trauma Registry which will provide evidence based decision for policy formulation on road safety, injury preventive interventions with component for improving of quality care and better out comes and rational utilization of resources and Continuous physical & financial monitoring of the programme.

3. To converge and co-ordinate with engineering, road safety, law enforcement

and Transport departments.

14. To initiate IEC/ BCC activities for educating the public about the risk factors and to reduce the incidence of road traffic accidental injuries and spread awareness regarding injury prevention and road safety.

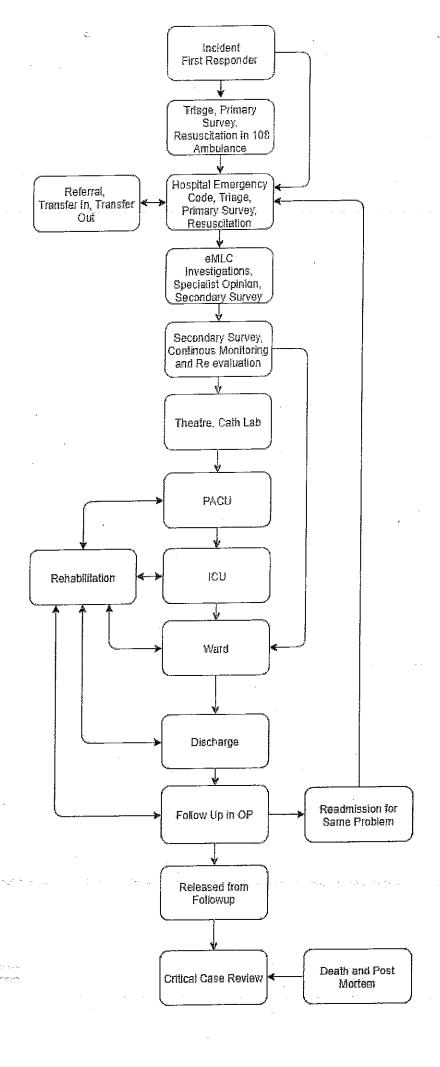
Innovations in Tamil Nadu Accident and Emergency Care Initiative (TAEI)

TAEI introduces few key concepts and paradigm shifts in patient care in Tamil Nadu Medical Services.

1. Stages in Patient Care

The Entire TimeLine From the moment of "Incident" (more about the Incident in a subsequent chapter) to Discharge of the patient from the Hospital after completion of treatment can be divided into various stages. These stages are for ease of understanding and are not discrete events. They overlap each other and happen simultaneously and the patient receives care in continuum. For Example, Triage and Primary Survey overlap. Primary Survey and Resuscitation happen together. It is again emphasised that the care the patient receives is in continuum.

	Code	Stage	Description
Onset	IN.1	Incident	The Onset of Emergency
	IN.2	First Responder Care	By Standers doing First Ald
Pre Hospital	PH.1	Call	Patient or Relative Calling 108
	PH.2	Reach	From Call to Picking Up the Patient by 108 Ambulance
	PH.3	Transit	Picking Up the Patient by 108 Ambulance to Reception in TAEI Care Centre
Transfer	RE.1	Referral	Referral Out from One Hospital to Referral In t Next Hospital
	RE.2	Intra Hospital Transfer	Transfer of Patients from One Ward to Another
Hospital	HE.1	Pre Intimation to Hospital	Hospital Being Ready to Immediately Start
Emergency Codes	(10) - Ole - Sandaria - Sandaria (10)	and Hospital Preparation	Treatment
ER Care	ER.1	Triage	Red, Yellow or Green
	ER.2	Primary Survey	Check ABCDE
	ER.3	Resuscitation	Manage ABCDE
Ambiguage of the control of	ER.4	AR Entry	AR Entry / eMLC
	ER.5	Secondary Survey	Detailed Examination
	ER.6	Investigations	Imaging and Blood Investigations
	ER.7	Specialist Opinion	Opinion and Management if needed
	ER.8	Monitoring and Re evaluation	Continuous post resuscitation monitoring and revaluation
lospital Care	HC.1	Emergency Intervention	Emergency Surgery / Thrombolysis / Angio/ to Shifting to MDCCU / ICCU / PICU / SNCU / IMCU / SICU Wards
	HC.2	Elective Intervention.	Elective Surgery
1946 St. 1950	HC.3	PACU Care	PACU
	HC.4	ICU Care	ICU
	HC.5	Post Op Care	Post Op Ward
Final Color	HC.6	Ward Care	Ward
	HC.7	Rehabilitation	Physiotherapy, Speech Therapy
	HC.8	Outcome	Discharge / Death
are Post		Follow Up	Following Discharge
ischarge = -	PD.1.5	Post Mortem	Following Death
	PD.2	Completion	Released to Primary Care
dministrative blow Up	AD.1	Critical Case Review	To Modify the Protocols and to Improve the Patient Care



2. Time Norms for Hospital Services

In addition to being Money elsewhere, Time is Muscle in heart and Neuron in Brain. The Outcome of a Thrombolysis does not depend only on the efficacy of the drug. It also depends on how quickly circulation is restored to the heart. The Outcome following Evacuation of an extradural hematoma does not only depend on the Skill of the neurosurgeon, but also on how quickly it has been done. In addition to "what to do", "who to do" and "how to do" we also need to know "when to do". It is in finding answers to this last question, we come across the concept of Time Norms.

Time Norms are commonly used in almost all fields. They are used by many departments and individual doctors in an informal manner. Codification of few "Time Norms" in Emergency Department and making them part of a protocol is yet another initiative of TAEI, which is likely to be adopted by all departments in future. For those who find this odd or difficult to understand may please imagine the board like the one here which would be seen in all banks. Just like how a bank assures certain services in certain time span, we need to complete certain procedures within stipulated time. However, it is being stressed that hospital resources are finite and limited. In cases more than one patient is being received at the same time, it may not be able to follow these norms. These norms are for guiding the health care provider. If the time limit could not be adhered to due to various factors, it does not constitute negligence and these time norms cannot be used as a criteria to evaluate Negligence or Deficiency of Care. For Example the norms here state that Emergency Decompression has to be started within 45 minutes of receiving the patient. However, if the Surgeon is already operating on another patient or engaged in some other live saving work, it is obvious that surgery for this patient who has now come will be delayed. This does not constitute a medical negligence.

A patient is expected to be in the Emergency Department for 6 hours and hence the norms are fixed for few activities

Door Time in Hours	Door Time in Minutes	Steps to be completed
	2	1. Triage Sorting the Patient into Red, Yellow, Green Criteria should be completed within 2 minutes of Receiving the Patient. Red and Yellow Patients have to be taken to the Resuscitation Bay as per need. Green Patients Taken to Green Area and managed accordingly.
	4	Quick Primary Survey for Red and Yellow Patients (Quick Primary Survey is explained in Detail in subsequent chapters)
	8	 Resuscitation for Red and Yellow Patients Resuscitation involves Management to Maintain ABCDE, Primary Survey and Resuscitation are done simultaneously for Red and Yellow Patients for whom the following as to be done Within 8 minutes of Patient entering the Hospital Premises (2 minutes + 6 Minutes) Airway: Suction / ET / Tracheostomy Breathing: Ambu / Ventilator Circulation: Peripheral IV Line / Central Line + Draw Blood for Investigations

		 Disability: Cervical Collar / Spine Board Exposure: Remove Source of Poison / Maintain Temperature
	15	 Complete eFAST and Mobile X Ray for Red and Yellow Patients Dispatch to Lab all Samples Collected from Red and Yellow Patients Complete Catheterisation, ICD if Needed Start Thrombolysis if Indicated Shift to CT if Indicated
	30	1. Complete AR Entry. Please note that as per TAEI Protocol AR Entry follows Resuscitation 2. Closed Reductions to be completed 3. Complete CT If Indicated 4. Shift to MRI if Indicated
	45	Emergency Decompression Cath Lab Procedures Complete Secondary Survey
1	60	Complete Treatment for Green Patients Complete Spine MRI if Indicated
2	120	Complete Specialist Opinion
3	180	Spine Fixation in Case of Instability
6	360	Shift Patient from ER to Respective Departments, If Indicated

3. Easy to Implement Standardised Protocols and Guidelines for Common Conditions and Common Procedures in Emergency Department have been formulated

The next innovation under TAEI is the use of Standardised Protocols and Guidelines for Common Conditions and Procedures in Emergency Department for Patient Management. These will be updated every six months

4. Capacity Building & Training:

All Cadres of Staff (From Doctors to Stretcher Bearers) will be give continuous and structured training. Tamil Nadu Accident and Emergency Care (TAEC) Policy envisages has Four Levels of Capacity Building for Four Categories of Individuals

1. IEC Activity for General Public

2. **TAEI FRC** (TAEI First Responder Care) for Those who are more likely to deal with an Emergency. This will be a one Day Training with 9 Sessions. This would include all Components of **Heart Saver + BLS** (Basic Life Support) Course

3. **TAEI Protocols Training** for all Health Care Workers including Undergraduate Medical and Paramedical Students. This will be for 3 Days and will be equivalent to FRC + 2 Days. This would include all Components of **Heart Saver + BLS + ACLS** (Advanced Cardiac Life Support) Courses

4. TAEI Skills Grading for those who are posted in Emergency Departments and Postgraduate Medical Graduates for eight days. This would be for a duration of 3 (TPT) + 5 days and would include All Components of Heart Saver + BLS + ACLS + ATLS (Advanced Trauma Life Support) Courses

5. Check Lists to help Health Care Workers are being used

Check Lists at various stages along with innovative case sheets are aimed at reducing the work load of the health care workers. The check lists will be explained in corresponding chapters

6. Standardisation of Registers

The Registers and Reporting Formats will be standardised across all Emergency Departments

7. Deputy Superindent TAEI

An interested and Capable Medical Officer will be designated as Deputy Superindent TAEI in Each Hospital and he/she would be the Nodal Person for Carry Out the TAEI Programme in each Hospital along with the Head of the Institution

8. Duty Trauma Nurse Coordinator

The Senior Most Staff Nurse in Duty will be called as Duty Trauma Nurse Coordinator and he/she will be incharge of ER at the shif

9. Uniform for Workers

All Workers in TAEI Wards will be give an distinct Uniform and this will be common across all hospitals

10. TAEI Number & Trauma Case Sheet:

Each Admission will be given an unique TAEI Number and there will be an eight Page Case Sheet. This Case Sheet will follow the patient from institution to institution. Entries will be made in this case sheet with a carbon copy in the hospital case sheet. This will serve as referral form and hence the time delay in preparing discharge summary will be avoided

11. Cath Labs and Hub and Spoke Management of MI and Stroke

There will be a Hub and Spoke Management of Myocardial Infarction and Stroke involving both Pharmacological and Invasive Treatments

12. Emergency Department

Emergency Department will be started in all institutions. This will include Emergency Room (ER) and Hybrid High Dependency Unit (HHDU) / Multi Disciplinary Critical Care Units (MDCCU)

13. Concept of Emergency Rooms

Casualty, Zero Delay Ward, Zero Delay Casualty, Triage Wards, Trauma Ward, Accident Ward, Accident and Emergency Ward will all be merged into a Single ER. The ER will have Triage Area, Resuscitation Bay, Red, Green and Yellow Zone

The Emergency Room will be Color coded as RED, YELLOW, GREEN based on the nature of the emergency. Color codes will be the first step in triage.

14. Concept of Hybrid High Dependency Unit (HHDU) / Multi Disciplinary Critical Care (MDCCU)

This will be a Intensive Care Unit attached to ER and under the control of Emergency Department in which patients requiring intensive care would be treated before being taken over by a department

15. Pre Arrival Intimation

The Hospital to which a patient is being transferred will be informed in advance

16. Hospital Emergency Codes

The Various Hospital Emergency Codes as per NABH Norms (Code Blue, Code Pink, Code Red etc) will be introduced. This will be tied with Pre Arrival Intimation too

17. Code Blue Brain Protocol

This Ensures that all patients who get Pre Arrival Intimation regarding Stroke / Head Injury be be shifted directly to the CT Room from Ambulance and only after the CT Brain has been taken, the patient should be shifted to ER. The Neurosurgeon / Neurologist / Surgeon / Other Doctors may look directly at the CT Monitor and begin prompt treatment as per TAEI and SCRIPT Protocols without waiting for the report. The CT Film may be handed over to the patient or Relative if they pay for it. If the Patient or Relatives do not pay, the Cost can be met from the Institutional Fund (as is being done for Unknown Patient)

18. Concept of Triage

Concept of Triage will be introduced in TAEI to evaluate the patient based on Standard Criteria and to optimally use the resources to deliver quality of care. ERs will have Triage Area

19. Application of Philadelphia Collars and Pelvic Binders

Suspected Neck Injury and Pelvic Injury will be managed with Application of Philadelphia Collars and Pelvic Binders

20. Resuscitation Bay

Resuscitation bay will be setup in All Institutions. Patients who are sorted under Red and Yellow Criteria will be received in Resuscitation Bays and managed as per Protocols

21. Uniform Position of of Drugs and Consumables in Crash Carts in All Centres This will facilitate treatment and reduce time needed for a procedure

22. eFAST

eFAST will be performed on all patients with suspected Abdominal injuries who are admitted in ER

23. Mobile X Ray

Mobile X Ray instrument will be available in all ER

24. Point of Care Testing

POCT will be made available in all ER to have rapid investigations

25. Registration of Medico Legal Cases

AR Entry will be made ONLY AFTER RESUSCITATION. Web Based Interface will be provided for AR Entries and the Printed Forms can be signed and filed. It is proposed to develop software in coordination with NIC for registering medico legal cases

26. Rehabilitation to start from ER

Rehabilitation will be started as soon as possible and not after discharge

Is an integral part in trauma care as it is estimated that nearly 100% of the RTA casualties with severe injuries, 50% of those with moderate injuries and 10-20% of those with mild injuries carry disabilities of physical and psychological nature requiring long term rehabilitation (Gururaj,2000) Hence good rehabilitative services need to ensured at all levels of care.

Under TAEI, comprehensive Medical and Psychological rehabilitation program will be developed

27. App Based Reporting and MIS

It is proposed to develop an Management and Information System (MIS) in Emergency Room. It is also proposed to install Display Boards (electronic / Hand Written) mentioning the status of the patient, treatment plan and the completion status of the recommended diagnostics and investigations to minimize apprehension among the patient relatives and thus enhance care and service delivery.

It is also proposed to generate unique ID by integrating the Emergency Room admission MIS with the CMCHIS software platform Remedinet.

28. TAE Registry

A comprehensive Accident and Emergency Registry will be setup

29. Critical Case Review

There will be multi layered Critical Case Review at

- 1. Ward Level
- 2. Department Level
- 3. Institution level
- 4. District Level
- 5. Speciality Level
- 6. State Level

30. Monitoring and Evaluation:

It is proposed to measure tangible outcomes of Trauma care services based on the data collected from all the centres.

31. Research studies

It is proposed to conduct regular Research Programmes to enable creating better protocols and guidelines.

32. Branding

This initiative aims to establish and strengthen the Hub and spoke model of Trauma care under the name— Tamil Nadu Accident and Emergency Care Initiative (TAEI). It is proposed to brand all the centres with a logo and tagline "Saving Lives is Our Mission"

33. Technical Support

The technical support and knowledge exchange is proposed between Our Hospitals and

- 1. AIIMS
- 2. IIT Madras, Chennai
- 3. Alfred Hospitals, Ausltralia

Pillars of TAEI

As discussed earlier, Tamil Nadu Accident and Emergency Care Initiative rests on the following 6 pillars, namely

- 1. Trauma Care
- 2. Management of Acute Myocardial Infarction (STEMI and NSTEMI)
- 3. Management of Stroke with SCRIPT
- 4. Management of Burns
- 5. Management of Poisoning
- 6. Management of Paediatric Emergencies with PREM

Building Blocks of TAEI

- 1. Protocols
- 2. Human Resources
- 3. Capacity Building (Training)
- 4. Electronic and Paper Record Maintenance
- 5. Rehabilitation
- 6. Quality of Care, Monitoring & Evaluation
- 7. Research
- 8. Administrative & Institutional Framework
- 9. Building
- 10. Equipments
- 11. Consumables
- 12. Drugs
- 13. Linkage to Safe Systems
- 14. Health Care Financing
- 15. Interdepartmental, National and International Collaboration

Policy for Protocols in TAEI

- 1. The Protocols for Management of Patients in TAEI Centres will be released by the Commissioner of Trauma Care. This will include
 - a. Protocols for Recruitment of for Human Resources
 - b. Protocols for Use of Electronic and Paper Record Maintenance
 - c. Protocols for Rehabilitation
 - d. Protocols for Quality of Care, Monitoring & Evaluation
 - e. Protocols for Research
 - f. Protocols for Administrative & Institutional Framework
 - g. Protocols for Building
 - h. Protocols for Equipments
 - i. Protocols for Consumables
 - i. Protocols for Drugs
 - k. Protocols for Linkage to Safe Systems
 - I. Protocols for Health Care Financing
 - m. Protocols for Interdepartmental, National and International Collaboration
 - n. Protocols for Management of Trauma
 - o. Protocols for Management of STEMI / NSTEMI Heart Attacks
 - p. Protocols for SCRIPT
 - q. Protocols for Management of Burns
 - r. Protocols for Management of Poisoning
 - s. Protocols for PREM
- 2. Suggestions / Modifications may be suggested by Users Online at http://www.taeionline.com/book
- 3. The Technical Division of SPMU will collate these protocols at the Protocol Review Meeting to be held twice a year
- 4. Protocol Review Meetings

Will be Conducted twice a year at First Tuesday of January and First Tuesday of July or the next working day if the above days fall on Government Holidays

- a. There will be a meeting of Sub Committees for (1) Trauma (2) MI (3) Stroke (4) Poison (5) Burns (6) PREM in the morning to go into detail of each suggestion and offer their remarks as to the whether the suggestions can be Accepted, Accepted with Modifications, Kept in Abeyance to be discussed later, More Clarifications needed from the Proposer or Rejected
- b. The Expert Technical Committee for Protocols will meet in the afternoon and decide about adopting recommendations of the sub Committees
- c. The Commissioner of Trauma Care will amend Protocols based on the Recommendations of the Expert Technical Committee and the same will Published Online within a week.
- d. The Protocols published Online will be considered as the Latest version and has to be followed by the Hospitals
- e. The Commissioner of Trauma Care will have the power to call for Protocol Review Meeting any time, in addition to the stipulated biannual meetings

Policy for Capacity Building (Training) in TAEI

Policy for Capacity Building (Training & Certification)

TAEI has Four Levels of Capacity Building for Four Categories of Individuals

- 1. IEC Activity for General Public
- 2. TAEI FRC (TAEI First Responder Care) for Those who are more likely to deal with an Emergency
- 3. **TAEI Protocols** for all Health Care Workers including Undergraduate Medical and Paramedical Students
- 4. **TAEI Skills** for those who are posted in Emergency Departments and Postgraduate Medical Graduates

Level I: IEC Activity for General Public

Aim & Objectives

- 1. To Sensitise All Citizens of Tamil Nadu about Emergency Care
- 2. To Make them Call 108 Ambulance Immediately after an Incident
- 3. To Avoid Delays in Treatment

Recipients

1. All Citizens of Tamil Nadu

Mode

- 1. Books
- 2. Brochures
- 3. Print and Visual Media
- 4. Social Media

Duration

1. Continuous Activity

Examination Certificate

1. Not Needed

Level II: TAEI FRC (TAEI First Responder Care)

Aim & Objectives

- 1. To Prepare the First Responders Deal with any potential Emergency
- 2. To Prevent or At least Reduce the Secondary Injuries (Injuries happening due to acts of commission or Omission after the Incident)
- 3. To Maximise Management within the Golden Hours

Recipients

- 1. School and College Teachers
- 2. Industrial Workers
- 3. Employees of Transport Department
- 4. Shopkeepers, Fuel Station Workers and other common public along the highway.
- 5. Workers of Unorganised Sectors
- 6. Any Other category of personnel who are more likely to deal with an Emergency

Mode

- 1. Class Room Teaching
- 2. Demonstration with Models and Mannequins

Duration

1. One Day (8 Hours)

Course Contents

- 1. Structure and function of the human body
 - 2. Dressing & Bandages
 - 3. Respiration & Asphyxia
- 4. Wounds & Bleeding
- 5. Shock
- 6. Injuries to Bones
- 7. Injuries to muscles and joints

- 8. Nervous system and unconsciousness
- 9. Burns & Scalds
- 10. Poisoning
- 11. Miscellaneous condition
- 12. Blood donation
- 13. Handling & Transport of injured persons
- 14. Contents of First Aid Box
- 15. HEART ATTACK
- 16. CPR Cardio Pulmonary Resuscitation
- 17. ABC & Recovery position

Examination

1. MCQ Examination

Certification

1. TAEl FRC Certificate and Badge will be issued. In addition to this, Digital Certificate will be issued to the candidates Aadhar Linked Digilocker

Level III: TAEI Protocols

Aim & Objectives

- 1. To train all healthcare workers to work in Unison and as a Team
- 2. To Standardize the Care, Skills, Protocols across all government Hospitals

Recipients

- 1. All Health Care Workers
- 2. All Undergraduate Medical Students
- 3. All Paramedical Students

Prerequisite

1. None. However, those who have undergone TAEI FRC in the past 6 months can skip Day one

Mode

- 1. Class Room Training
- 2. Lectures
- 3. Demonstration with Models & Mannequins
- 4. Hands on Training

Duration & Course Contents

- 1. 3 days For those who have not undergone:
 - a. Day 1 will be the TAEI FRC Training and exam will be conducted at the end of the day and Certificate and Badge will be issued
 - b. Day 2 will have lectures and Demonstration and Hands on Training about Primary Survey, Resuscitation, and Other Stages of Patient Care in ER
 - i. RE.1 Referral
 Referral Out from
 One Hospital to Referral In
 to Next Hospital

- ii. RE.2 Intra Hospital Transfer Transfer of Patients from One Ward to Another
- iii. HE.1 Pre Intimation to
 Hospital and Hospital
 Preparation Hospital
 Being Ready to
 Immediately Start
 Treatment
- iv. ER.1 Triage Red, Yellow or Green
- v. ER.2 Primary Survey Check ABCDE
- vi. ER.3 Resuscitation Manage ABCDE
- vii. ER.4 AR Entry AR Entry / eMLC
- viii. ER.5 Secondary Survey Detailed

Examination

- ix. ER.6 Investigations
 Imaging and Blood
 Investigations
- x. ER.7 Specialist Opinion Opinion and Management if needed
- xi. ER.8 Monitoring and Re
 evaluation Continuous
 post resuscitation
 monitoring and re
 evaluation
- c. and 3 will have lectures about TAEI Protocols in the morning and Exam in the Afternoon Session
- 2. 2 Days for those who have undergone TAEI FRC in the past 6 months
 - a. Day 1 will have lectures and Demonstration and Hands on Training about Primary Survey, Resuscitation, and Other Stages of Patient Care in ER
 - b. and 2 will have lectures about TAEI Protocols in the morning and Exam in the Afternoon Session

Examination

- 1. TAEI FRC Exam at the End of Day One
 - a. MCQ Exams
- 2. TAEI Protocols Exam at the End of Day Three
 - a. MCQ Exams
 - b. Clinical Demonstration

Certificate

1. "TAEI FRC" Certificate and Badge will be issued. In addition to this, Digital

Certificate will be issued to the candidates Aadhar Linked Digilocker

2. "TAEI Protocols" Certificate and Badge will be issued. In addition to this, Digital Certificate will be issued to the candidates Aadhar Linked Digilocker

Level IV : TAEI Skills Certification *Aim & Objectives*

1. To Impart Specialised and Advanced Training to Health Care Workers posted in Emergency Departments

Recipients

- 1. Those posted in Emergency Departments
- 2. Postgraduate Medical Graduates

Prerequisite

1. TAEI Protocol Training

Duration

1. 5 days

Mode

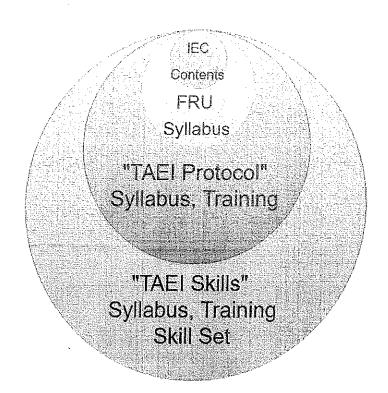
- 1. Class Room Training
- 2. Lectures
- 3. Demonstration with Models & Mannequins
- 4. Hands on Training
- 5. Clinical Posting in an ED in a Medical College / Training Institute

Examination

1. OSCE

Certificate

1. "TAEI Skills" Certificate and Badge will be issued. In addition to this, Digital Certificate will be issued to the candidates Aadhar Linked Digilocker



ED Workers All Health Care Workers

First Responders

General Public

candidates Aadhar and Badge will be issued. In addition Certificate will be Linked Digilocker "FRC" Certificate to this, Digital issued to the Certification Demonstration Examination MCQ Exam + Heart Saver + Equivalent TAEI Training Strength Duration | Batch 30 1 Day All Health Care of of of 0ther who and All Medical and Station common public along the College Teachers Shopkeepers, Target Audience Jnorganised Department All Citizen of TN Paramedical Employees Transport Industrial Workers personnel Workers Students Workers highway. Workers category Sectors School other Any Fuel 'n. ∞ $^{\circ}$ 6 4 Respondent Programme FRC (First Building Capacity TAEI IEC S.No 2

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							Grading)	Skill	moo om a na		:.				Training	Protocol	TPT (TAEI		
				Nursing Students	2. All Medical and	Medical Services	Tamil Nadu	Workers in ER in			Students	Paramedical	2. All Medical and	Medical Serv	. Na	Workers	1. All Health Care	Emergency	to deal with an
					-		,	TPT+5							ţ		FRC + 2		
	·		Same Institution	Doctors from	Nurses and 2	Preferably 3	Nurses)	15 (6 Doctors + 9		Institution	Same	Doctors from	Nurses and 2	Preferably 3	Nurses)	Doctors + 18	30 (12		
			Courses	Support)	Trauma Life	(Advanced	ATLS	Heart Saver + BLS + ACLS +	, m, par				Support)	Cardiac Life	(Advanced	BLS + ACLS	Heart Saver +		,
								MCQ Exam + Demonstration								Demonstration	MCO Exam +		
		 Digilocker	And Digital	and Badge	"TSG" Certificate	and Badge	"TPT" Certificate	"FRC" Certificate	Digilocker	Aadhar Linked	the candidates	will be issued to	Digital Certificate	and Badge	"TPT" Certificate	and Radge	"FRC" Certificate		

TAEI Training:

FRC Training: 1 Day Training with 9 Sessions: Includes All Components of Heart Saver + BLS (Basic Life Support)

TPT: TAEI Protocols Training: 3 Days: FRC + 2 Days: Includes All Components of Heart Saver + BLS + ACLS (Advanced Cardiac Life Support) Courses

TSG: TAEI Skills Grading: TPT + 5 days: Includes All Components of Heart Saver + BLS + ACLS + ATLS (Advanced Trauma Life Support) Courses

TSG Detailed Schedule

Days Course Day I FRC and Day 1 of TPT and Tec	Days 2,3 : Days 2,3 of TPT and TSG	Days 4,5,6,7,8 Days 4,5,6,7,8 of TSG	Illitati in antiti naturi na tanta na	Days	Day 1	Days $1,2,3$	Days 1,2,3,4,5,6,7,8
Bays Day 1:	Days 2,3;	Days 4,5,6,7,8 :		Course	First Responder Care (FRC):	TAEL Protocol Training (TPT): Days 1,2,3,	TAEI Skill Grading (TSG): Days 1,2,3,4,5,6,7,8

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																	Basics	First Aid	ABCDE &		Break	lea		У	Physiolog	Human	
impact on survival g. High-quality CPR skills	quality CPR and its	f. Importance of high-	e. AMBU,	with a barrier device	d. Effective ventilations	Barrier Device	c. Mouth to Mouth and	 b. Artificial Respiration, 	needing CPR	a. Signs of someone	2. Breathing		for adults, children and	obstruction (choking)	foreign-body airway	b. Techniques for relief of	Recovery Position	a. Importance of	1. Airway				4. Brain Function	3. Respiration,		 Basic Physiology 	
																		EMRI	Faculty from							Faculty from	
									-			Demonstration of CPR	Demonstration of AED					Videos and Demonstration	Didactic Lecture with Slide Shows.						Videos	Didactic Lecture with Slide Shows and	

K. E. M. S. L. S.											是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个			Socratic Discussions with Demonstrations encouraging the	than the conditions mentioned
7.E3.00 till.									Faculty from. EMRI	·				Faculty from EMRI or	Professor of
Beschollog		3. Circulation a. Cardiac Massage	c. AED skill	demonstration d.	4. Disability	a. AVPU b. Blood Sugart	5. Environment	a. Dressing	 Scene Safety and Assessment Application of the steps of the Chain of Survival 	 Multi rescuer resuscitation and skill acquisition 			How to React in Various Con-	1. Injury Hand and Feet a. Bleeding	p.
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15:00 Scenarios LL Neck injuries Surgery or Den De	:15 Common How to React in Various Scenarios Professor of						e. Hemoptysis	d. Epistaxis	c. Choking		10. Foreign Body Nose and	9. Eye Injuries			/DVT / Gangrene	6. Sudden Musculoskeletal Pain		5. Spine Injuries including nominated		4. Fracture Dislocation Lower ENT or	Limb	3. Fracture Dislocation Upper s or	Toes, Extremities, Orthopaedic	Crush Injuries of Fingers, Professor of	,
Demonstrations encouraging the trainees to ask more scenarios other	Socratic Discussions with		6. ICD, Needle Thoracocentesis	/ Scoop Board /	5. Philadelphia Collar / Spine Board	FND	4. Thomas Splint, Check for Pulse,	3. Cuff and Collar, Check for Pulse	part	2. How to preserve the amputated	ii.	for kids) Inj	Rectal Suppository	Stat (Paracetamol	i. Inj Diclo 1amp IM	e. Analgesics	Inj GM 80 mg iv stat	i. Ampicillin 1 gm +	d. Anti biotics	i. Inj TT ½ cc IM stat	c. TT	b. Bandage	a. Dressing	Site (Head, UL, LL)	T. Direct compression of preeming

Rental State of the state of th	than th	,	9. ICD, Needle Thoracocentesis 10. Vomiting	11. How to Manage Acute Abdomen in ER	a. Ask for	i. LMP (in case of	remales)	b. Look for	i. Anemia (Ectopic)	ii. Jaundice	(Pancreatitis due to	<u> </u>		IV. FR	c. Do	. <u></u>	ii. ECG. All Loods		Leads. ECG to Rule	out Inferior Wall	Ischemia iii.
Description :	g. Hanging 12. Drowning / Submersion by him/her	h. Fracture Rib	j. Hemothorax Ir Dorigandial	Tamponande	I. Bull Gore	15. Blunt Injury Abdomen	16. Pelvic and Perineal Injuries	including Bladder Injuries	Polytrauma	18. Vomiting	m. Hematemesis	19. Acute Abdomen	n. AGE	o. APD	p. Acute Pancreatitis	q. Kenal Colic	t. Urine Retention	s. Ectopic Fregnancy 20. Labour and Obstetric	Emergencies	(ئ	
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		Common Scenarios	Tea Break			
w. Dos and Don'ts 26. Burns 27. Anaphylaxis / Allergic Reactions / Fever 28. Poison / Drug Overdose 29. Snake Bite / Scorpion Sting Dog Bite / Animal Bites 30. Unconscious Patient	v. Importance of AED and CPR 23. Head ache 24. Stroke 25. Fits	21. Breathlessness u. Asthma 22. Heart Attack / Chest Pain				
	nominated by him/her	Professor of Medicine or doctor				Farefully,
13. Unconsious Patient a. FBS, Urea, Creatinine, Electrolytes b. Ketone Bodies c. Jaundice d. CT e. USG indicated in i.	than the conditions mentioned Apply Cuff and Collar #Stabilisation of UL and LL	Socratic Discussions with Demonstrations encouraging the trainees to ask more scenarios other		iAbdomen iii. : CT Abdomen e. 12.	d. Investigation i. USG ii. Plain X Ray	Remarks

Republic States of the states		MCQ based Test of 30 Questions		
HIII 1928	Faculty from	Course Coordinator		
x. Munchasen Syndrome 31. Alcohol Intoxication / Agitated Patients	1. Disaster inside Hospitals 2. Legal Aspects in Emergency 3. How to Get Help a. Whom to call b. What all to tell i. Where are you ii. How many need help iii. What is the emergency iv. What help you need c.	Disasters		
	Legal Aspects and Mass Casualty	Post Test	Valedicto Ly	Registrati On
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	'n	 Critical Care Transport 	10. Universal Precautions	situation.	priorities in a trauma	Ċ,	Triage				emergencies	of acute life-threatening	our"	necessary within the "golden	secondary management	•	Hospital Codes	Referral	Pre Arrival Intimation and	How is TAEI Different	Management Flow Chart	Pillars of TAEI	TAEI Introduction			en. En	7. A.		
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1.1:45 Evaluation of Triage 1.1:45 Evaluation of Triage 1.2:30 Lunch Lunch Lunch 1.3:30 Lunch Lunch Lunch 1.4:15 Lunch Lunch Lunch 1.4:15 Lunch Lunch Lunch 1.5:30 Lunch Lunch Lunch 1.5:30 Lunch Lunch Lunch 1.5:30 Lunch Lunch 1.4:15 Lunch Lunch 1.5:00 Lunch Lunch 1.5:00 Lunch Lunch 1.5:00 Lunch 1.5:0	Faculty from SPMU or District TAEI Trainer or DS TAEI or HTNC		Faculty from Team Dynamics SPMU or District TAEI		HTNC				Professor of Manual – Head Tilt and Chin Lift Anaesthesiol Accessory Airway - Advanced Airway - Advanced Airway
1 11:45 2 to 12:30 12:30 12:30 12:30 13:30 3 to 14:15 4 to 15:00 5 to 5 to 5 to			12. Team Work 13. Primary Survey 14.	15. Resuscitation 16. a. Demonstrate concepts	\neg \vee \vee	 Primary and secondary assessment of a patient with simulated. 		Evaluation of Primary Survey and Resuscitation	18. Airway including Intubation 19. f. Established a patent airway and initiating one- and
1 11:45 2 to 2 to 12:30 12:30 13:30 3 to 14:15 4 to 15:00 5 to 5 to 5 to	e III.	Luttch Break							
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18:15	to	17:30				•		17:30	to	16:45				16:45	to	16:00	To Break	15.45 Tea				_			_	A STATE OF THE STA
	Ventilators	Evaluation of Breathing and	thoracic injuries	est t	via needle thoracentesis and	25.1. Pleural decompression	entil	24. Breathing : Ambu and	Management	23. Respiratory Arrest						Evaluation of Airway and Intubation			22. i. Cricothyroidotomy	carbon dioxide monitoring	21. h. Pulse oximetry and	adult and infant manikins	nasotracheal intubation on	20. g. Orotracheal and	two-person ventilation	
ogy or	Anaesthesiol	Professor of		-	by him/her	nominated	doctor	ogy or	Anaesthesiol	Professor of	by him/her	nominated	doctor	ogy or	Anaesthesiol	Professor of							by him/her	nominated	doctor	Faculty :
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3 09:00 2.7. Circulation: iv Lines and Central Lines 2.8. Post Cardiac Arrest Professor of Cardiac Arrest Management Professor of Cardiac Arrest Management Professor of Cardiac Arrest Management 2.9. Brady Cardia, Tachycardia Professor of Cardiac Arrest Management 2.9. Brady Cardia, Tachycardia Professor of Cardiac Arrest Management Profes				
27. Circulation: iv Lines and Central Lines 29 to Central Lines 28. Post Cardiac Arrest management 29. Brady Cardia, Tachycardia Algorhythms 30. j. Assessment and management of the patient in shock, including initiation of percutaneous venous access and recognition of life- threatening hemorrhage 31. k. Venous cutdown (optional) 32. m. Pericardiocentesis 33. m. Pericardiocentesis 33. n. Pericardion of the abdomen of the abdomen 36. CPR and BLS	Rennamiks	ECG REcoginition Cardiac Arrest Management Algorhythms Hypovolemic Shock Fluid Calculation		
2 09:30 0 to 0 to 0 to 10:00 1 to	doctor nominated	Professor of Cardiology or Medicine or doctor nominated by him/her	Professor of Radiology or Surgery or doctor nominated	by him/her EMRI Faculty or
3 10 17 17 17 17		27. Circulation: iv Lines and Central Lines 28. Post Cardiac Arrest management 29. Brady Cardia, Tachycardia Algorhythms 30. j. Assessment and management of the patient in shock, including initiation of percutaneous venous access and recognition of life- threatening hemorrhage 31. k. Venous cutdown (optional) 32. m. Pericardiocentesis	34. eFast 35. o. Peritoneal lavage, ultrasound, and CT evaluation of the abdomen	
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	Faculty or	34. p. Head and neck trauma		4 to	
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fraculty. Professor of Neurology or Neurosurger y or Medicine or doctor nominated	by him/her EMRI Faculty or Professor of Orthopaedic is doctor nominated	Py mm/ ner Faculty from SPMU or District TAEI Trainer or DS TAEI or HTNC	Course Co Ordinator
assessment and management with GCS scoring 35.q. Identification of intracranial lesion by CT scan 36.r. X-ray identification of spine injuries 37.s. Neurotrauma evaluation	39, t. Musculoskeletal trauma assessment and management 40. Environment	41. Legal Aspects in Emergency Care 42. Team Work	
		Tea Break	Post Test
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Intubation			including ECG learning	Brady Cardia Management	including ECG learning (Syncronized Cardio Version)	Tachyarrhythmia Management Skills				management	Cardiac Arrest and Team	TPT just the previous day	This is not needed if they had taken	This is same as the Post Test of TPT.									。 1911年,1911年,1911年,1911年,1911年,1911年,1911年,1911年,1911年,1911年,1911年,1911年,1911年,1911年,1911年,1911年,1911年,1911年,1
Airway Mannequin- Adult / Peadiatric/ Infant			method racing method	with Software Histalien Liderer	Defibrillator Machine, Moinitor, Lap top	Defibrillator Mannequin with			with Software Historical Factor)	Defibrillator Machine, Monitor, Lap top	Defibrillator Mannequin and	A.									A STATE OF THE PROPERTY OF THE	Tagniky Remaliks	WE - DESCRIPTION OF THE PROPERTY IN THE PROPERTY OF THE PROPER

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Reinzenker	Airway Devices , (basic, Advance and Definite) AMBU bag and Mask, face mask, NRBM, OPA (All size), Venture Mask, NPA (All size), Largoscope with all size Blades, Battery set, ET tube all size, LMA all size,	Central Line Mannequin with accessories		Needle Decompression Mannequin with Large bore venflan ICD Mannequin with ICD Tray and Tube accessories	Adhesive dressing	Philadopheal Collar and Spine Board with Straps and Belts	Traction Splints , Pads, Cuff and Collar, etc
Desculorence of the second of		Central Line Training (IJV, Subclavian, Femoral Venous puncture)		Needle Decompression Intercostals Drainage Open Pneumothorax Management	Rib Fracture management	Cervical Collar Application , Pelvic Binder application and Spine Immobilization & Log roll Techniques	Fracture stabilization technique both Upper Limb and Lower Limb
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Dufredie	CT.T.	14:15 to 15:00	15:00 to 15:15	15:15 to 16:00	16:00 to 16:30	16:30 to 17:00	09:00 to
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	Dieser joeton	Reading of CT scan (Baisc)		Reading of Xray in case of Spine Ijuries.	Compartmental Syndrome:	Assessment and Management	Decontamination techniques: Gastric Lavage, Antidots and Dosage		Management of Amputated Limb &	l ransport techniques	Multi-Casualty Incidents and Triage				Drowning, Barotrauma, and		Team Management in Poly transma	Victim
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Karnofsky Performance Status Scale, Japanese Orthopedic Association Score (10AS)	TAEI – Scoring system which Including GCS, AIS, ISS , MHIPS	kespiratory Emergencies (ARDS ,Anaphylaxis, Asthma , COPD etc)	STEMI and NSTEMI)	3			Stroke Management		Broselow tape			
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Remarks MEO hased Test of 20.	Questions Brief Lectures with Hands on Demonstrations in Mannekins Demonstration of AED Demonstration of CPR ECG REcoginition Cardiac Arrest Management Algorhythms		Brief Lecture with Clinical Scenarios and asking the Trainees to Tell the Management Code Blue Heart	Brief Lecture with Clinical Scenarios and asking the Trainees to Tell the Management Code Blue Brain	10 be Fractised Clinical Scenarios and Asking the Trainees to give the
S OTH DEFITIORISE FREUIGNE	Coordinator Dr.Dhavapalani Dr.Prathima (Apollo)		Cardiologist RGGGH	Neurologist RGGGH	Dr.Bruno, NHM
PALE SKill H. Christiffing PHOTE BRICOKES DIGERATION Selve (Miles) Constituted of Desirion Strength of Performance Per	1. Cardiac Arrest and Team Management 2. BLS 3. ACLS 4. Tachy Arrhythmia 5. Brady Arrhythmia 6. ECG Reading 7. Pericadiocentesis	CHILLIA I	STEIMIFFOOCOIS BASICS	SCRIPT Protocols Basics	Head & Neck Injury Basics
Minis Pilor B	Cardiac Emergencies other than Infarction	CTEMI Protection	Basics	SCRIPT Protocols Basics	Head Injury Basics
3411. Gree Buren on 09:30 to 09:30 to	10:00 to 13:00	14:00 to	14:45	14:45 to	15:30 to
TANEL Day	4 4	4		4	4

TO THE REPORT OF THE PERSON OF		e concersion	ALAMASISIII Graidhinga Phoi Baiches Adamhlet Soigithes ioidhands Adhreithe Baist Anns 1967 S	on Demonsu	ation and Clinical
				ERITATION CONTRACTOR AND	Correct GCS, AVPU, Further Management
					Management
· vı	09:00 to 11:00	Skeletal Injuries	Spine Injury Pelvic Injury Injury of Extremities	Orthopaedician, RGGGH	Philadelphia Collar, Pelvic Binder, Cuff and Collar, Thomas Splint, Spine Board, Scoon Roard Cor Boll
	11:00 to 13:00	Soft Tissue Injuries	Abdominal Injury Degloving Injury Amputation	General Surgery, RGGGH	Transport of Amputated Part Direct Compression of Bleeding Site Needle Decompression ICD
The state of the s					Open Pneumothorax Management Rib Fracture Management eFast
0	14:00 04:00	Funch			
; (л	14:00 to 17:00	Toxicology	SnakeBite Scorpion Sting All Poisons and Drug Overdose	Physician, RGGGH	
	09:00 to 13:00	Airway	Airway (Airway Mannequin- Adult / Peadiatric/ Infant Airway Devices, (basic, Advance and Definite) AMBU bag and Mask, face mask, NRBM, OPA (All size), Venture Mask, NPA (All size), Largoscope with all size Blades, Battery set, ET tube all size, LMA all size, Combitube, I-Gel.)	Anaesthiologist RGGGH	Manual – Head Tilt and Chin Lift Intubation Ventilator Cricothyrodectomuy
o	13:00 to	Lunch			
6	14:00 to 17:00	Breathing and Circulation	Pneumothorax , ICD, Burns, Ambu Breathing Ventilator	Anaesthiologist RGGGH	Hypovolemic Shock Fluid Calculation

	Each Trainee will Present for 5 Minutes about what they have learned in the training and scope for improvement	Presentation Lunch	1000	Φ Φ ο
		Post Test	09:00 to 10:00	ω
	Royapettah Team + Tambaram Team	ER Observership	07:00 07:00	
	Kilpauk Team + Kancheepuram Team	ER Observership	13:00 to 19:00	7
	Stanley Team + Thiruvallur Team	ER Observership	07:00 to 13: 00	
Central and Peripheral Cannulation	Fluid Management Dehydration, Hypovolemic Shock, ARDS Fluid Management		. - .	
ration and Clinical	arches - Defailled Solredfules for tands or rDenonstration and Clinical Volsservership - Days 4.5.6,7,8,	Pallors	B SKIII Grading	2012@V

List of Topics to be covered in TAEI Protocol Training

The Following are the List of Topics Proposed to be included in the TAEI Protocol Training for Health Care Personnel working in Emergency Rooms. Please give in your suggestion at www.taeionline.com/book

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Fracture Dislocation Lower Limb	Fracture Dislocation Upper Limb	Traumatic Amputations and Crush Injuries of Fingers, Toes, Extremities,	Injury Hand, Feet	Scenario
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Hip Femur Knee Tibia Tibula Fibula Ankle	Clavicle, Shoulder, Humerus, Elbow, Radius, Ulna, Ulna, Wrist		Abrasions (Bruises), Cuts, Lacerations Contusions Deformities	
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		Ampu Parts		Ask for
		Amputated Parts	,	
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1. Ca R. 2. Pr Pr				Look for
Capillary Refill Time Peripheral Pulse	Capillary Refill Time Peripheral Pulse	Pulse All Four Limbs	Other Injuries	
me cal	ne al	Four	uries	
44 64	'nн	2 1	3.	Do [
Thor Urge Call on the Pelvi Don'	Cuff; Urge feebl	Safegua a. b. c. c. d. d. f. linjectio needed	Wash wit Dressing	Do [Doses are for a 60 kg Adi Dose as needed]
Thomas Splint Urgent Vascular Surgeon and Call Over if there is no or feeh on the affected Limb Pelvic Binder for Hip Injuries Don't Catheterise in case of D Urological injuries	Cuff and Collar Urgent Ortho Call Over if there is feeble pulse on the affected Limb	Safeguard the Ampurated Part a. Wash the Part in No Saline. b. Wrap it is Sterile Ga soaked in Ampi, GM c. Wrap it in Sterile M Towel d. Place in Plastic Bag e. Keep in Crushed Ice f. Avoid Freezing Isot Solution Injection Tetanus Immunoglol needed	Wash with NS Dressing	are for
lint cular : there cted L ler for ler for eterise	illar ho Call e on th	the Amputated Part Wash the Part in Normal Saline. Wrap it is Sterile Gauze soaked in Ampi, GM Wrap it in Sterile Moist Towel Place in Plastic Bag Keep in Crushed Ice Avoid Freezing Isotonic Solution Tetanus Immunoglobulin	NS	a 60 J
Surgec is no c imb Hip In Hip In	Over ne affer	putate he Par t is Ste in Am t in Ste t in Ste c in Crust reezin n Immu	ĺ	
on and or feeb or feeb of D	if ther	t in Narile Garile Garile Garile Garile Marile Mari		ılt Modify
Thomas Splint Urgent Vascular Surgeon and Ortho Call Over if there is no or feeble pulse on the affected Limb Pelvic Binder for Hip Injuries Don't Catheterise in case of Doubtful Urological injuries	Cuff and Collar Urgent Ortho Call Over if there is no or feeble pulse on the affected Limb	Safeguard the Amputated Part a. Wash the Part in Normal Saline. b. Wrap it is Sterile Gauze soaked in Ampi, GM c. Wrap it in Sterile Moist Towel d. Place in Plastic Bag e. Keep in Crushed Ice f. Avoid Freezing Isotonic Solution Injection Tetanus Immunoglobulin if needed		dify
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Ortho Surgeon Vascular Surgeon	Ortho Surgeon Vascular Surgeon	Plastic Surgeon Ortho Surgeon General Surgeon	Plastic Surgeon Ortho Surgeon General Surgeon	pinio
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Specialist Opinion	1. Neurosurgeon 2. Orthosurgeon 3.	Vascular Surgeon General Surgeon Ortho Surgeon	1. Neurosurgeon Opinion 2.	ENT Surgeon Neurosurgeon Ortho Surgeon Plastic Surgeon Pental Surgeon	1. Ophthal Surgeon
Investigate	1. MRI Spine 2. CT Spine	1. Doppler 2.	1. CT Scan Brain 2. CT Scan Orbit if there is Sub Conjunctival Hemorrhage or Facial Injuries		1. CT Scan
Do (Doses are for a 60 kg Adult. Modify Dose as needed)	Philadelphia Collar Pelvic Binder for Hip Injuries Spine Board Log Roll for Pain / Stepping Deformity		1. Philadelphia Collar for All Unconscious Patients 2. Intubation and Elective Ventilation for a. All patients with GCS 9 or Less than 9 b. Patients with Diffuse Injuries c. Patients with Diffuse Injuries c. Patients with Clinical or Radiological signs of increased ICT Radiological signs of increased ICT Radiological signs of increased ICT Radiological signs of Syp KCI in Panitidine 150 mg iv tds 5. Inj Phenytoin 100 mg iv tds 6. Syp KCI 7. Syp Antacid 8. Head Shave 9. Ryles Tube 10. Cathererisation 11. Head End at 15° to 20° Elevation 12. Spine Board a. Log Roll for Pain / Stepping	If there are any bleeding or if there is suspicion of bleeding, Intubation or Tracheostomy irrespective of GCS to prevent Aspiration Nasal Packing or Throat Packing ONLY AFTER Intubation / Tracheostomy	1. Eye Irrigation with Normal Saline for 15 to 20 minutes
CONTROL	Motor Deficit Sensory Deficit Bladder Involvement Bowel	Involvement 1. Capillary Refill Time 2. Peripheral Pulse	1. AVPU 2. Vision 3. Pupils 4. Eye Movements Movements 5. Weakness 6. Neck Injuries 7. Face Injuries 8. Signs of Increased ICP ie Bradycardia and Hypertension 9.	1. Vision 2. Eye Movements 3. Neck Injuries 4. Head Injuries 5. Loose Tooth	1. Vision 2. Pupils
			1. Exact Time of Loss of Consciousne ss 2. Headache 3. Vomiting 4. ENT Bleed 5. Fits	-	
	Attas to Sacrum Attas to Sacrum	1. Gangrene 2. DVT 3. Compartmental Syndrome 4. Neuropathy		1. 1MG Dyslocation 2. Dental Injuries	1. Eye Injuries 2. Loss of Vision
Spine Injuries	opine rijuries including Cervical Spine	Pain / Loss of Movement in Extremities	Head injury		Ocular Emergencies
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Carego majora	Chest Injuries				Asphyxias	Neck Injuries &	•									3	ENT Blood	, .					•					Throat	Nose and	Foreign Body						Scenario
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JVP	Arrhythmua	Cardiac	Muscular	Venous,	Bony, Arterial,	1 - 1-6-						•	Injuries	Abdomen	Chest Injuries	Hypertension																		Extra Ocular Movement		book for
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Needle Thoracostomy				f	Philadephia Collar Hypothermia Management	ı	is source	Anti HT in case of Elevated BP	Epistaxis	Nasal Pack in case of Confirmed	Transexemic Acid	Streptovit	Vitamin K	Trevent Asniration	Tracheostomy impropries of CC to	If there are any bleeding or if there is		a. Back Slaps b. Chest Thrusts 3. Heimlich's Maneuver	2. Infants	1. Ask Patient to Cough	Inadequate Oxygen Saturation	and then refer	are not available in the	2. If Above Specialists or Facilities	Over for Bronchoscopy	Surgeon / Chest Physician Call	1. [Treent Angesthesiologist / FNT		Unconscious		and Inj Metro 500 mg iv tds	iv Antibiotics : Inj Cipro 200 mg iv hd		Cover the Eye with Sterile Gauze	Dose as needed)	Do (Doses are for a 60 kg Adult Modific
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	s., 7	2, 2	Pneumothorax			7.	Oxygen	2.	Se as needed)					- 1
	484 - 48,	ა. 4. r.	Hemothorax Pericardial Tamponade All Other Blunt Injuries				Saturation Hypotension	ന. 4. സ	 Pericardiocentesis Occlusive Dressing taped on three sides 3 Way Valve Dressing 		· · · · · · · · · · · · · · · · · · ·	~i κi	General Surgeon General Physician	
	A L J	<u>ن</u> ف	All Other Penetrating Injuries		,									
	Abdomen and Pelvic Injuries	.	Penetrating Injuries of Abdomen and	72 N	Mode	4.2	Anemia Bleeding	r i	Don't touch the Objects if they are in contact with the body or partially	i,	X Ray Chest to Rule out		General Surgeon SGE	-,
	· ;	2.	Pelvis Bull Gore		,	ю.	oremera Bladder Injuries	2.	Shift to Theatre as soon as possible		Diaphragmat ic Heria	4 .	Urologist	
	- X 573	33	Injuries Evisceration			4. ry	PR / PV	. 4	Cover une Open Areas With Sterile Towels soaked in Normal Saline Apply Polytic Bindows	2.	X Ray Abdomen		٠	
		4.0.0	Emasculation Perineal Injuries Blunt Injuries			;		i ii	Apply Fevic bingers Don't Catheterise in case of Doubtful Urological injuries	₆ . 4	Erect USG CT Abdomen			
	Multiple Injuries / Polytrauma	. i				4 2	Rapid Trauma Survey	17.	Helmet Removal Philadelphia Collar	2.	Electrolytes	2. 1	General Surgeon Ortho Surgeon	
						i m	sear ben Injuries Helmet	ų 4. п	Pelvic Binder Thomas Splint				Neurosurgeon	
1.		,		ŀ		4	Injuries	ာ်	EFASL					
	vonnung and Diarrhoea	7.	AGE Food Poisoning	1. 2. H	Food Intake Headache	1.	Dehydration Electrolyte	2:1	iv Fluids iv Antibiotics	r, 0	USG CT Abdomen			
,	wi i					33	Impalance Intra Cranial Pressure			7.	CT Brain			
~	Acute Abdomen	2.	APD Acute	LMP (in females)	LMP (in case of females)	⊢ i	Anemia	1.	eFAST	1;	DSO			
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Fits	Stroke	Treat action	Head ache	Chest Pain	Rreathlessness	Poison / Drug Overdose	Bites and Sting	Anaphylaxis / Allergic Reactions	Fever and Temperature Disturbances	Burns	Emergencies
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Ciona a filon		Bradycardia Hypertension			Discoloration Pupils	Smell				Lung Damage due to Inhalation Entry and Exit Wound for Electrical Burns Rule of Nine	BP
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TOTOLOGICAL TOTOLOGICA TOTOLOGIC	SCSRIPT Protocole	Fundus Examination	STEMI and NSTEMI Protocols	Rule out Cardiac Causes Deriphylline Aminophylline	Specific Antidote Skin Decontamination Dialysis	Stomach Wash	Snake Bite Protocols Scorpion Sting Protocol Dog Bite Protocols		1. Dengue Protocol	Burns Protocol	Do (Doses are for a 60 kg Adult Modify Dose as needed)
	+	2. 1.			4 37	, i-,					lnve
		CT Brain Plain		·	Electrolyte Renal Functions Liver Functions	Drug Levels					.Investigate
		 Neurosurgeon Neurologist 			Opinion	1. Nephrologist					Specialist Opmon

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SECTION OFFICER

BEELA RAJESH SECRETARY TO GOVERNMENT

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