

108 Emergency Response Services – India

Resuscitation Academy (Sept. 2016) Singapore

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Director Emergency Medicine Learning Centre & Research

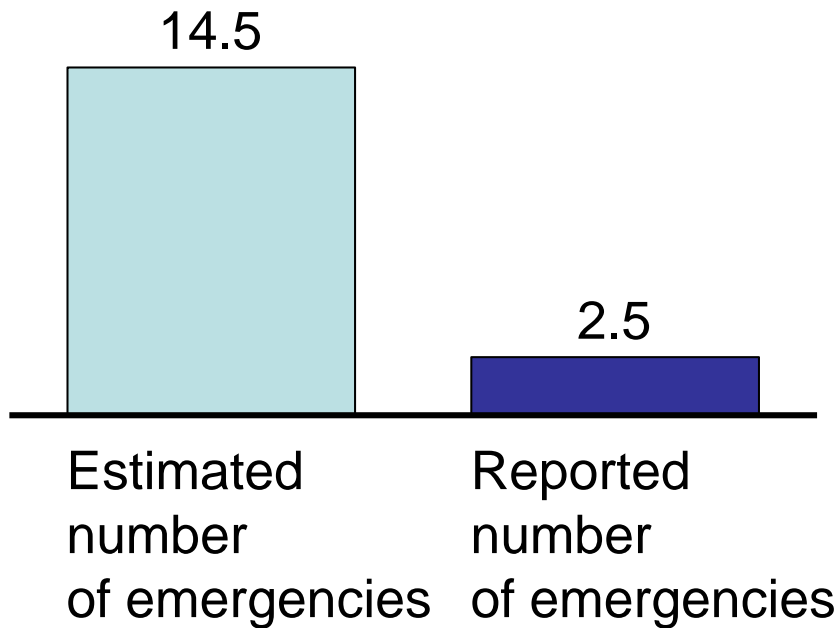
GVK Emergency Management and Research Institute

ONLY 20-25% EMERGENCIES GET TREATED IN INDIA - 2005

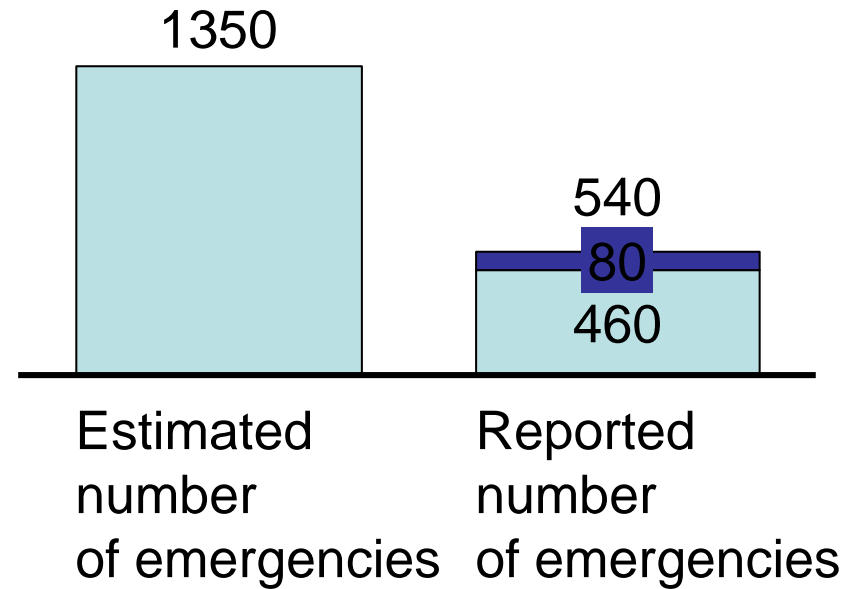
REPRESENTATIVE

Sample set

17% emergencies reported in rural areas



40% emergencies reported in leading metro



INDIA HAS AN ESTIMATED
MEDICAL, CRIME AND FIRE EMERGENCIES EVERY DAY...

300,000

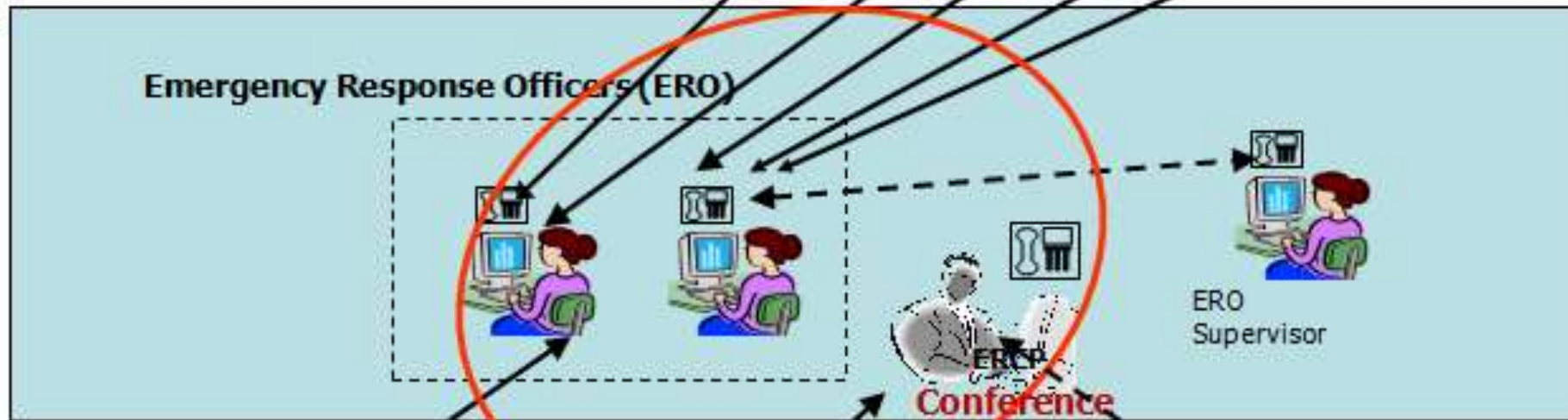
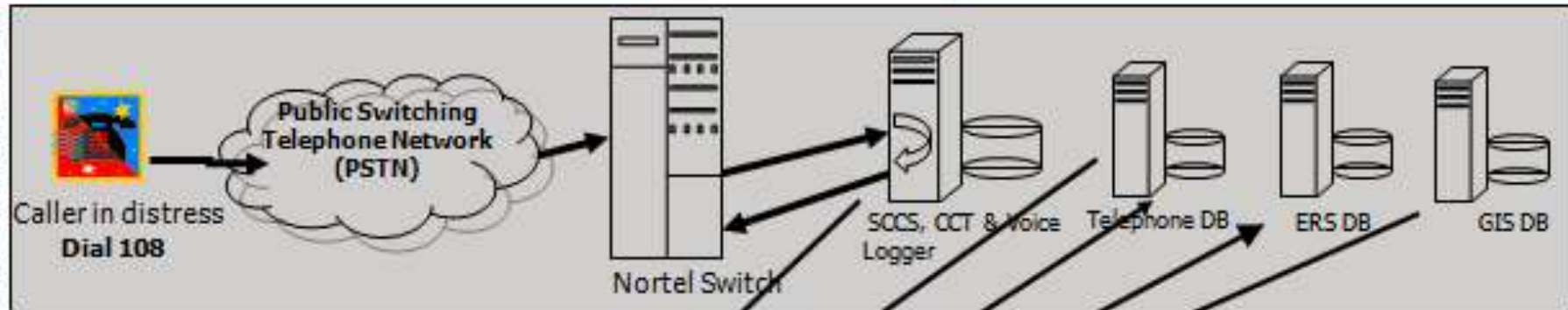
MANY LIVES ARE LOST BECAUSE OF
LACK OF IMMEDIATE MEDICAL
ATTENTION, TRANSPORT OR ACCESS
TO ANY FORM OF HELP.

108

Sacred and significant in
Hinduism, Islam, Buddhism, Sikhism and Jainism

Tech Mahindra

COMPUTER SERVER ROOM





Innovative Pre-Hospital Care

- Emergency Medical Technician (EMT) in the ambulance is trained not only to provide pre-hospital care but also to handle emergency situations
- EMT gets support over phone from qualified medical practitioner called ERCP (Emergency Response Centre Physician) located at the ERC
- ERCPs are in the ERC round the clock to provide support to EMT and to people at emergency scene until ambulance arrives



Innovative Process



- Developed detailed process understanding and well defined responsibilities through out the organization
- Maintained all information related to emergency in Patient Care Records (PCRs)
- Patient information is shared with the hospital on arrival
- 48 hour follow up with the patients admitted to hospital

Pre Hospital Protocols...

Essential Prehospital Emergency Protocols

Hyderabad/Ahmedabad, March 2011

Stanford
Emergency Medicine
International



STANFORD
SCHOOL OF MEDICINE

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We would like to extend our gratitude to the GVK EMRI staff (EMC physicians, EMT educators and EMTs) that provided their expertise and feedback during the development of this protocol manual.

Disclaimer: Every effort has been made to provide accurate and up-to-date information, which is in accord with accepted standards and practice at the time of publication of this protocol manual. Nevertheless, the contributors and editors can make no warranties that the information contained herein is totally free from error, not least because clinical standards are constantly changing through research and regulation. The contributors and editors therefore disclaim all liability for direct or consequential damages resulting from the use of material contained in this manual. Readers are strongly advised to pay careful attention to information provided by the manufacturer of any drugs or equipment that they plan to use.

Table of Contents

GENERAL ASSESSMENT	28	NEONATAL RESUSCITATION
1 ROUTINE MEDICAL/TRAUMA CARE	29	ORGANOPHOSPHATE POISONING
	30	POISONING
EMERGENCY PROCEDURES	31	POSTPARTUM HEMORRHAGE
2 AIRWAY MANAGEMENT	32	PREECLAMPSIA/ECLAMPSIA
3 AUTOMATED EXTERNAL DEFIBRILLATOR (AED)	33	RESPIRATORY DISTRESS
4 CARDIAC MONITORING	34	RETURN OF SPONTANEOUS CIRCULATION
5 ELECTROCARDIOGRAM (ECG)	35	RHYTHM IDENTIFICATION
6 GLUCOSE CHECK (GRBS)	36	SEIZURE/FITS/CONVULSIONS
7 INTRAVENOUS (IV) ACCESS	37	SHOCK NON-TRAUMATIC
8 OXYGEN ADMINISTRATION	38	SMOKE INHALATION
9 PULSE OXIMETRY	39	STROKE
10 TRANSCUTANEOUS PACING	40	SUBMERSION/ NEAR-DROWNING
11 VITAL SIGNS	41	SYNCOPE
	42	TACHYCARDIA
	43	VAGINAL BLEEDING
MEDICAL EMERGENCIES		TRAUMATIC EMERGENCIES
12 ABDOMINAL PAIN		44 ABDOMINAL TRAUMA
13 AIRWAY OBSTRUCTION		45 AMPUTATION
14 ALLERGIC REACTION/ANAPHYLAXIS		46 BURNS
15 ALTERED MENTAL STATUS		47 CHEST TRAUMA
16 BEHAVIORAL EMERGENCIES		48 CRUSH INJURY
17 BRADYCARDIA		49 EXTREMITY HEMORRHAGE
18 CARDIAC ARREST (PULSELESS)		50 EXTREMITY INJURY
19 CHEST PAIN		51 HEAD TRAUMA
20 CHILDBIRTH		52 HELMET REMOVAL
21 ENVENOMATION		53 PELVIC TRAUMA
22 GASTROINTESTINAL BLEED		54 SPINAL IMMOBILIZATION
23 HEAT ILLNESS		55 SPINAL TRAUMA
24 HYPERTENSIVE EMERGENCY		
25 HYPOGLYCEMIA		ABBREVIATIONS
26 HYPOTHERMIA		MEDICATIONS
27 NARCOTIC POISONING		

Routine Medical/Trauma Care

- Scene size up**
- Personal protective equipment
 - Scene safety
 - Number of patients
 - Additional resources
 - Number of ill/injured and/or mechanism of injury

- Initial assessment and immediate interventions:**
- See following page

- High transport priority:**
- Immediate life threat (problems with CABs)
 - Unstable scene
 - Consider in the following patients (AEAC3)

- Rapid medical/trauma exam:**
- Head, neck and respirations
 - Color
 - Neck for tracheal deviation, distended neck veins and DCAP-ETLS
 - Look for breath sounds
 - Look for level wounds
 - Chest, abdomen and pelvis for DCAP-ETLS
 - Interventions for pulse, sensation, movement and DCAP-ETLS
 - Sign for rock, responsiveness

- Respiratory vital signs:**
- Pulse rate
 - Respiratory rate
 - SpO2 percent
 - Pulse oximetry

- AMPLE history:**
- Allergies
 - Medications
 - Past medical history
 - Last meal
 - Events leading up to illness or injury

- OPQRSTU:**
- Onset
 - Provocation
 - Quality
 - Region and Radiation
 - Severity
 - Timing
 - Unifying symptoms

- Reassessment:**
- Report vital signs
 - Every 2 minutes of critical patient
 - Every 15 minutes of stable patient
 - Report focused history
 - Report focused exam
 - Subtle interventions

Initial Assessment and Immediate Interventions

- General Impression/LOC**
- Awake, NPO
 - Alert
 - Responds to Voice
 - Responds to Pain
 - Unresponsive

- Immediate Interventions:**
- Position
 - Control bleeding
 - CPR
 - Defibrillate
 - Open Airway
 - RLV
 - Shift to ambulance
 - O₂
 - Cardiac monitor
 - IV
 - OBSS (obvious)

Position Patient

- Conscious, no trauma, gag reflex present:
 - Position of comfort
- Depressed LOC, no trauma, decreased gag reflex:
 - Left lateral decubitus position
- Trauma: spinal immobilization if appropriate
- Pregnancy > 20 weeks: Semi-sprigle or left lateral decubitus position
 - If patient requires spinal immobilization, assess to backboard (see #8 20-30 degrees to left and torso up)
- Respiratory distress: Sitting upright or position of comfort

Circulation

- Control active hemorrhage with direct pressure
- Initiate CPR if unresponsive and no pulse
- Defibrillate, if available and indicated

Airway

- Open airway – head tilt/chin lift, use jaw thrust if suspected cervical injury
- Adjustable airway device, as needed
 - Oropharyngeal airway – unresponsive, no gag reflex
 - Nasopharyngeal airway – responsive, gag reflex present
- Traction, as needed

Breathing

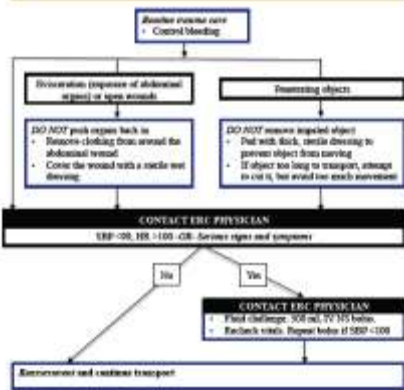
- Oxygen administration:
 - Administer O₂ appropriate to patient condition
 - Signs of respiratory distress, anoxic O₂ by 2 L/min cano rebreather (see #10)
 - If CPD history, do NOT withhold O₂, but observe closely for respiratory depression or decreasing LOC
 - Use SpO₂ in a pulse oxyl, the patient may require O₂ even if normal SpO₂
- Avoid ventilation as needed by bag mask respiration

Shift to Ambulance

- Immediately for high transport priority patients
- Collect patient medications and bring to hospital if possible

ABDOMINAL TRAUMA

- Definition:**
- Damage to abdomen from either blunt or penetrating injury
- Key points:**
- Abdominal injuries can lead to serious blood loss and death
 - Patients can have serious injury without abdominal pain
 - Assess all patients with penetrating trauma, external signs of trauma, or significant blunt force trauma have internal organ injury
- Signs, symptoms and symptoms:**
- Stech (hypotension, tachycardia) - Severe abdominal pain - Distention of abdomen
 - Penetrating trauma - Deformities/eggs exposed - Rigid abdomen
 - Contusion (bruising) of abdomen or flank - Altered mental status



- ERC PHYSICIAN**
- Key points:**
- Assess all penetrating injuries or trauma with significant flaccid lower internal organ injuries
 - Patients with unstable life-threats should be transported to a hospital with resuscitation facility
 - Patients with unstable injuries should be transported to a hospital with resuscitation facility
 - Patients with unstable injuries should be transported to a hospital with resuscitation facility
 - Patients with unstable injuries should be transported to a hospital with resuscitation facility
- Pharmacological management options:**
- Pain control
 - Pre-routed 100 mg IV/IM
 - Transcutaneous 25-50 mg IV as needed for severe pain
 - DO NOT give if SBP < 90 or RR < 12
 - May repeat every 15 min as needed for further pain control
- Proximal transport or in-hospital management options:**
- Abdominal 100 mL IV NS followed by continuous infusion
 - Monitor for hemorrhagic shock; repeat fluid bolus as needed to keep SBP > 90
 - Nothing by mouth
 - Consider repeated dosing of pain medication as needed

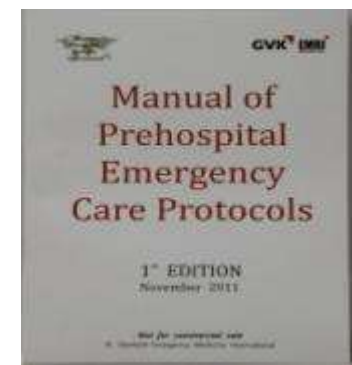
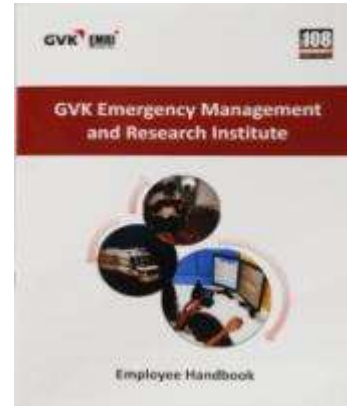
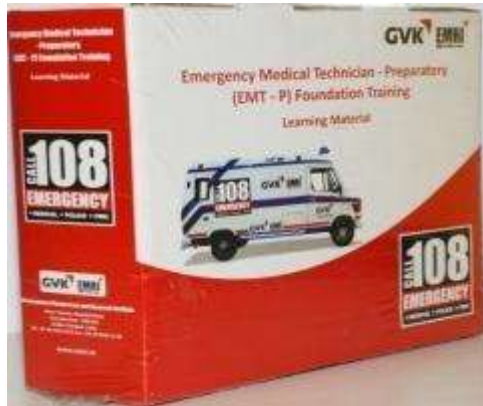
- Pediatrics**
- Key points:**
- Pre-routed 15 mg/kg IV to maximum of 1000 mg
 - 20 mL/kg IV NS up to 500 mL



References:

- Marr JA (ed). *Rosen's Emergency Medicine: Concepts and Clinical Practice*, 9th ed. Mosby, St. Louis, MO, 2016.
- A review of psychological assessment and management of blunt and penetrating abdominal trauma. *EMJ World* 2016.

Training Kit – Foundation EMT





Emergency Medical Technician - Refresher (EMT-R) Training Learning Material



CONTENTS OF THE KIT
 EMT (R) POCKET BOOK
 MEDICAL EQUIPMENTS MAINTENANCE MANUAL(PART II)
 SOFT SKILL MANUAL (PART II)
 COMPLETION CERTIFICATE
 Control Number: EMT_R_201_ / 0077



EMERGENCY MEDICAL TECHNICIAN (PREPARATORY)

POCKET BOOK
Pre Hospital Care ... at a glance



1st Edition: 2013
1st Print: 2013



EMERGENCY MEDICAL EQUIPMENT MAINTENANCE & REPAIR MANUAL

DEPARTMENT OF HUMAN RESOURCE MANAGEMENT
GVK EMERGENCY MANAGEMENT AND RESEARCH INSTITUTE, HYDERABAD
(500043)



For Medical Equipments Only



Soft Skills for Affectionate Life Saviours

Developing soft skills to accomplish the mission of
saving lives



With love,
From an affectionate Life Saviour



CERTIFICATE OF COMPLETION

Awarded to

EMT No./M: _____

_____ Date: _____

For successfully completing

Emergency Medical Technician - Refresher (EMT-R) Training

From _____ Date: _____

Deputy In-charge
Emergency Medicine Learning Centre

Control Number: EMT_R_201_ / 0077

Emergency Response Centers

State	Date of Launch	No of yrs Of Exp.	Seats in Call Center
Andhra Pradesh	15th Aug 2005	> 10 Years	100
Telangana	15th Aug 2005	> 10 Years	
Gujarat	29th Aug 2007	> 8 Years	62
Uttarakhand	15th May 2008	> 7 Years	32
Goa	5th Sep 2008	> 7 Years	15
Tamilnadu	15th Sep 2008	> 7 Years	85
Karnataka	1st Nov 2008	> 7 Years	74
Assam	6th Nov 2008	> 7 Years	80
Meghalaya	2nd Feb 2009	> 7 Years	28
Madhya Pradesh	16th July 2009	> 6 Years	50
Himachal Pradesh	25th Dec 2010	> 5 Years	24
Chhattisgarh	25th Jan 2011	> 5 Years	48
D&NH and Daman & Diu	10th April 2012	> 3 Years	6
Uttar Pradesh	14th Sep 2012	> 3 Years	300
Rajasthan	4th June 2013	> 2 Years	50
Arunachal P	16th Nov 2013	> 1 Year	12
National			966



➤ Overall, more than 100 years of experience of running Call Centers and Computer Aided Dispatch(CAD)

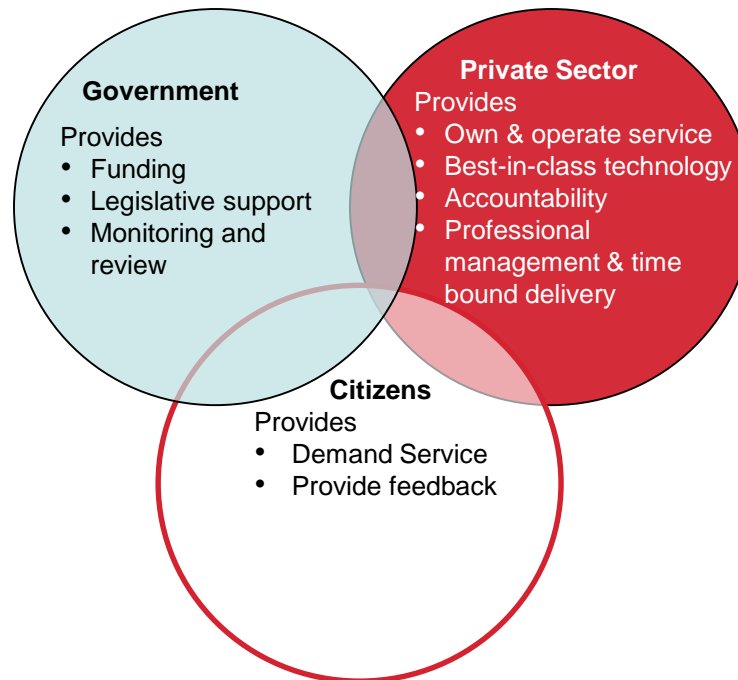
Launched on 15th Aug, '05 in Hyderabad and expanded to 2 Countries

In India 15 States and 2 Union Territories, In Sri Lanka 2 Provinces

GVK EMRI FOOT PRINT



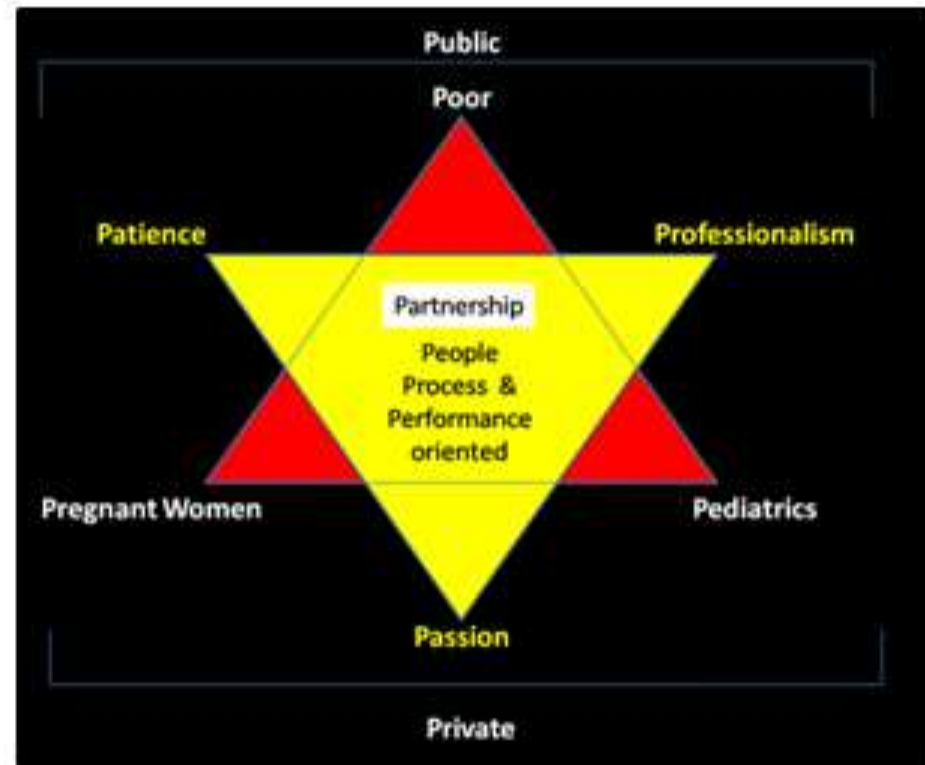
Population covered:	750 M
Emergencies attended:	47 M
Ambulances:	10,697



Public Private Partnership (PPP) in Emergency Management

Successfully Implemented by GVK EMRI in PPP Framework

- **P**olitical will, **P**ublic Servants' commitment and **P**ublic Support
- Direct Capital and Operational cost by Government (Public)
- GVK funds Leadership, Innovation (Infrastructure, Process), Collaborations, Research and Training, Knowledge transfer and Quality assurance
- Tech Mahindra provides free IT solutions as technology partner
- GVK EMRI manages and leverages government resources for better outcomes to serve poor



What worked for the EMS Model?

Strengths

- Not burdened by legacy technology processes or people
- Indigenously developed cost-effective technology including well designed and equipped ambulances
- KPIs Matching World Class Standards
- Public Private Partnership model of organization

Aspiration to save over 1.0 million lives a year by 2020*

Aspirations

- Provide emergency management services in all states
- Provision of critical value added services to plug deficiency in Government services
- Extend the 20% reduction in RTA, MMR and other life saving benefits to the most needy

* Defined as lives that would have been lost without EMRI intervention and stability in patient's condition beyond 48 hours of emergency; Assumes 25% of emergencies serviced by EMRI and 3 lives saved for 40 medical emergencies attended to by EMRI

Collaborations



Pre-Hospital Care Protocols
 District Hospital Physician Program (DHPT)
 Paramedic education
 Instructor Development / CME / OLMR



Provider - Basic and Advanced
 Instructor Courses
 Global Development Committee member
 Best trauma case for annual global meet
 Indian publication of Manual



BLS/ ACLS/ PALS – Provider and Instructor Programs
 Invitation to 2010 guideline dissemination, USA
 Regional faculty
 Quality conceptualization
 invitation to Bangladesh first AHA course



ALSO - Provider and Instructor course
 BLSO- Provider and Instructor Course
 Joint paper in International conference
 Invitation to Ethiopian ALSO



Student Exchange program
 Faculty exchange program
 Joint research



International internship spots
 AIIMS / GVK EMRI/ CU studies of EMS



**STEMI INDIA
 CHARITABLE TRUST
 SERVICE AGREEMENT FOR TAMIL
 NADU STEMI PROGRAM**



Overlap with Disaster Management

Emergency Response Center (ERC):

- 24 x 7 X 365 services
- 3 digit number for easy & quick alert
- Inbuilt call surge capacity (40 K - 200 K)
- ERC with Police/ Fire Dept. network
- PRA lines (dual)
- Multi-mode communication (Cellular/ RF)
- Geo-spatial information (digital maps – Road/landmarks)
- Service organization information (hospitals, fire/police)
- ERC –special seating for MCI & Disasters

Ambulance

(Land/ Boat) with

- Life support medical equipment
- Patient transport equipment
- Rescue and extrication tools
- Base location –close to community
- Response – U/ R app. 20 Mts.
- Carry 1 critical and 4 mild injury patients
- Communication facility with patient, ERC, hospital.
- Automatic Vehicle Location Tracking
- Ability to mobilize additional fleet to scene

Pre-Hospital Care

- Trained Emergency Medical Technician
- Protocols to deal medical and trauma emergencies
- On-Line Medical Direction by qualified doctors 24 X7 at ERC
- Availability of Advanced Life Support Medication
- Protocols attested by Stanford School of Medicine
- Trained in Disasters and MCI
- Hospitals in Working Agreement (HWA) for Care Continuum
- Inter-facility Transfer Process
- Interception process
- Do Not Resuscitate Process
- PCR Document
- Patient Assets Documentation provision

Research and Training

Emergency Medicine Learning Center (EMLC) with Simulation labs

and qualified instructor teams for training community based First Responders,

Basic and Advanced EMTs, Doctors and Nurses on BLS/ ACLS/ PALS/ ITLS.

Disaster Preparedness exercises – Table Top, Mock Drills .

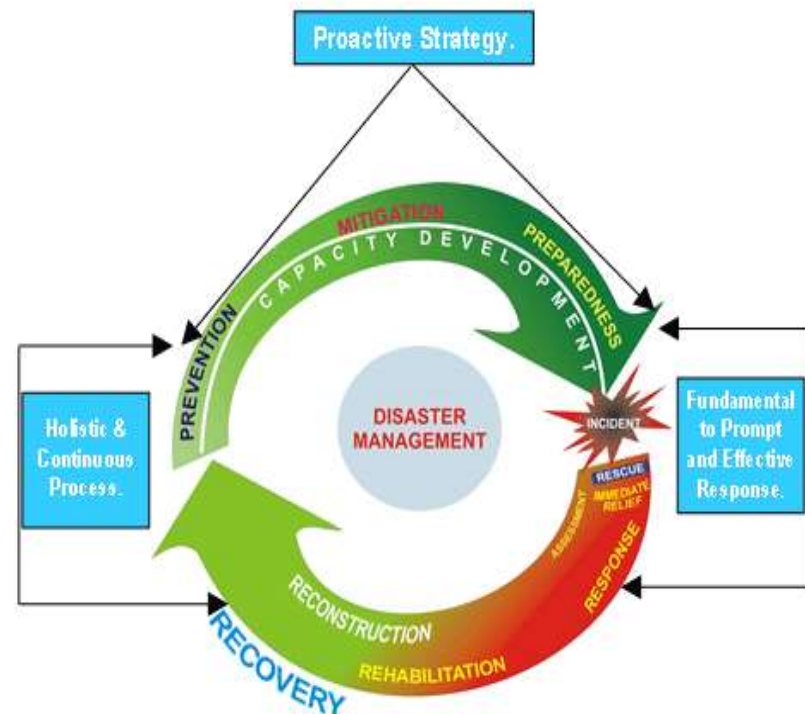
Emergency Rooms in PPP at Goa

Operations, Systems and Clinical Research Approach

Unique On-Line Medical Research Division

Indian Emergency Journal

DISASTER MANAGEMENT CONTINUUM



Delivery by the candle light (By EMT under Medical Direction)



EMERGENCY MANAGEMENT INFRASTRUCTURE CAN ALSO BE LEVERAGED IN DISASTER MANAGEMENT SITUATIONS

May 18 blasts, Hyderabad

- Bomb blasts at Mecca Masjid area in Hyderabad injuring 40 and killing 12
- EMRI deploys ambulances immediately after the first call
- Victims transported by EMRI to local private and government hospitals with treatment on the way



“EMRI took off a lot of the burden from our shoulders by arriving on time and taking up the responsibility of getting the injured persons to hospitals.”

- Government of Andhra Pradesh

“I reached the hospital on the 108 ambulance... the person on the ambulance removed a splinter from my arm”

- Victim

Trauma Vehicular 12.1% (Mean age- 33 Y)

May'16 - AP

Age (%)						
Age	Male			Female		
	U	R	T	U	R	T
0-4	0.17%	0.58%	0.65%	1.20%	1.10%	4.00%
5-9	0.56%	1.00%	0.65%	2.20%	1.79%	4.00%
10-14	1.76%	1.52%	1.95%	1.80%	3.44%	8.00%
15-19	6.27%	6.40%	11.04%	6.59%	5.10%	14.00%
20-24	12.75%	12.95%	20.13%	7.58%	8.95%	12.00%
25-29	15.92%	16.02%	22.08%	11.18%	10.33%	6.00%
30-34	12.83%	11.56%	15.58%	9.18%	10.47%	8.00%
35-39	13.05%	13.28%	11.69%	12.18%	12.12%	4.00%
40-44	10.26%	10.01%	5.19%	11.78%	10.33%	12.00%
45-49	7.98%	8.46%	5.19%	8.98%	9.92%	10.00%
50-54	7.55%	6.27%	3.90%	5.39%	6.61%	10.00%
55-60	6.01%	7.56%	1.30%	11.78%	11.29%	6.00%
>60	4.89%	4.39%	0.65%	10.18%	8.54%	2.00%

Social Status (%)			
Social Status	U	R	T
BC	23.3%	5.4%	23.6%
OC	46.2%	12.3%	45.6%
SC	25.7%	19.7%	25.6%
ST	4.8%	62.6%	5.2%

	Urban	Rural	Tribal
White	97	98	98
Pink	3	2	2

Survival Status (%)			
	U	R	T
Survived	100	100	100
Expired	0	0	0

Gender (%)			
	Urban	Rural	Tribal
Male	82	81	76
Female	18	19	24

Response Time (%)			
Time	Urban	Rural	Tribal
<15	65	47	45
15-20	16	15	14
20-25	10	14	11
25-30	5	9	9
30+	4	15	21

Urban - 41 %	Rural- 56%	Tribal - 3 %
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Trauma Vehicular/ lakh population in Top 5 districts

Top 5 districts	
CHITTOOR	29.29
GUNTUR	27.39
KRISHNA	27.00
EAST GODAVARI	23.10
WEST GODAVARI	20.48

Trauma Vehicular/ lakh population in Bottom 5 districts

NELLORE	16.55
ANANTAPUR	15.77
KURNOOL	12.84
SRIKAKULAM	9.48
VIZIANAGARAM	9.13

S. No.	Description	National Daily Report 30 th August 2016
1	Demographic Particulars	
a	No of districts covered/ Total districts	372/372
b	No of sub-districts covered/Total Sub-districts	3270/3277
c	No of Cities > 1 lakh Popu. covered/Total cities	292/292
d	Number of Villages covered/Total villages	377571/378536
f	Population covered by GVKEMRI	750,853,165
g	Area (in Sq.KM) Covered	2036211
2	Call Details	
a	Total Calls Answered	158,425
d	Total Calls Answered (Since Inception)	465,450,090
3	Emergency Details	
a	Emergencies (Med + Pol + Fire)	26,788
d	Emergencies (Med + Pol + Fire) (Since Inception)	47,395,856
4	Ambulance Details	
a	No. of ambulances	7,118
b	Emergencies/ Ambulance/ Day	3.8
c	Population Covered by a Ambulance	97,900
d	Area (in Sq.km) covered by a Ambulance	286
e	Emergencies/ Lakh Population/ Day	3.8
5	Top Emergencies	
a	Pregnancy related	8,880
b	Pregnancy Related (Inception till Date)	15,986,091
c	Trauma (Vehicular)	2,936
d	Trauma (Vehicular) (Inception till Date)	6,151,694

Impact

Type of Emergencies and Lives saved	<ul style="list-style-type: none"> • Pregnancy related - 35%, Vehicular Trauma – 12%, Acute Abdomen – 13% Cardiac – 4%, Respiratory – 4%, Suicidal – 4%, Animal Bites 2% • 907 lives were saved per day (18.55 lakhs) and 26,710 victims per day received timely, high-quality pre-hospital care • 142 deliveries assisted by EMTs everyday (4.38 lakhs)
Costs	<ul style="list-style-type: none"> • Cost effective services provided in 15 States and 2 Union Territories
Qualitative Outcomes	<ul style="list-style-type: none"> • Angel of Mercy – 108 Ambulance • Successful PPP • Well documented systems, impressive EMT training, high order management competence • A historic landmark in health care delivery system • Built more trust in the health system as a whole • Increased institutional deliveries and reduced maternal mortalities by 20 – 25% • A model for replication across the Country in any state

Reaching the unreachable







Neo Natal Ambulances are launched in order to ensure emergency transfers for very sick babies who require more specialist treatment at another hospital and also for elective or 'back' transfers to transport recovering babies back to the hospital nearest to their homes. It is primarily launched to reduce the Infant Mortality Rate as a part of Millennium Development Goals. This specialised service is operated in Tamil Nadu and Goa as part 108 Emergency Response.

Inter Facility Transfer (IFT)



The objective of these ambulances are to provide timely transportation to patients who require next level of medical treatment in higher healthcare facility This facilitates an integrated and comprehensive health care management providing high-end ambulatory transportation for appropriate care.

While 437 dedicated inter facility transfer ambulances as operated in Assam, special initiative in some other states some ambulances have been dedicated for this purpose as part of 108 Emergency Response Service.

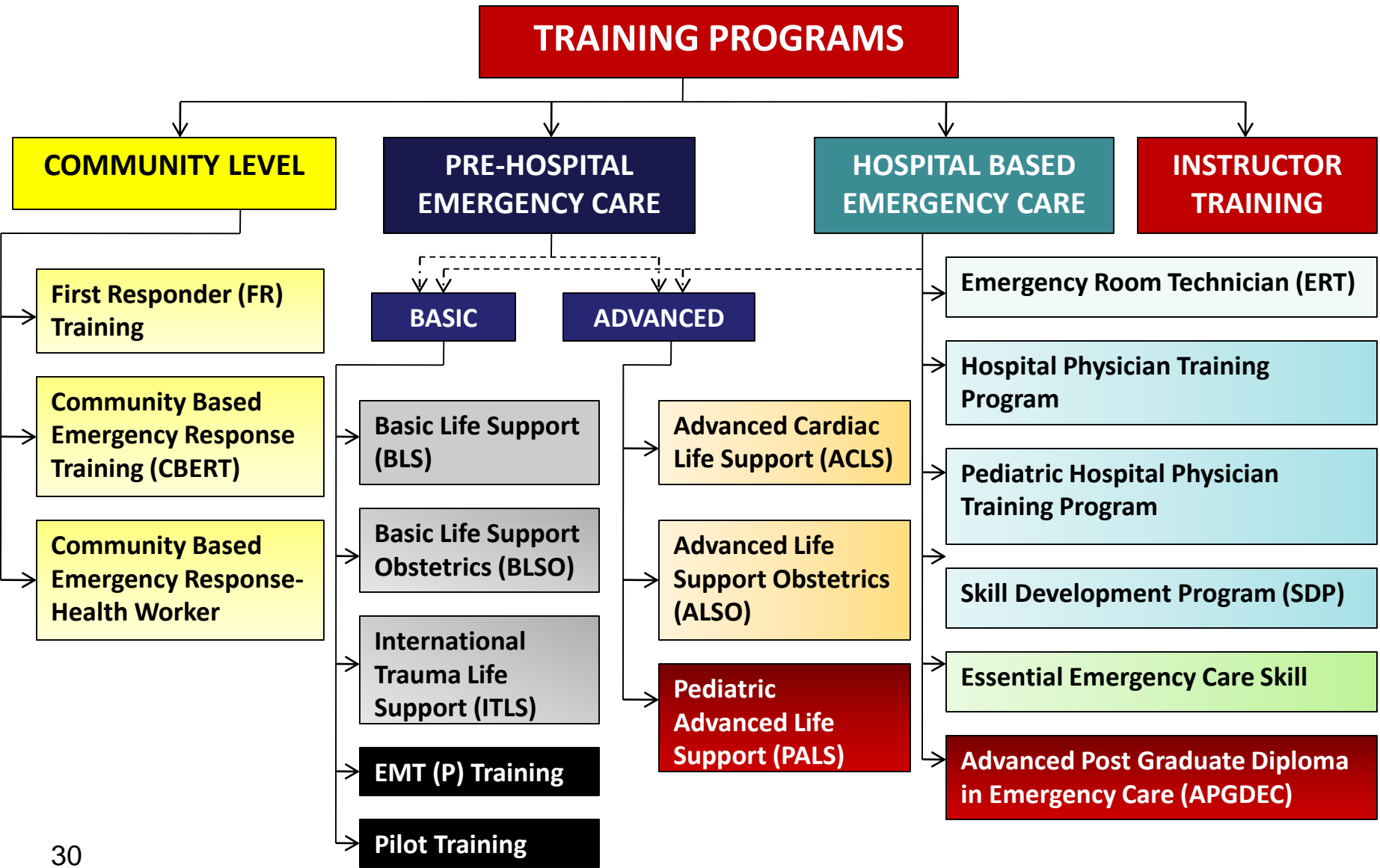
Emergency Stabilization Centres



The role and mission of ESC is to provide stabilization to patients/victims in the Golden hour and ensure safe transport to the nearby tertiary hospital for definitive care. These ESCs will ideally be located closer to accident hotspots and also in geographies where facilities to treat medical emergencies are poor or don't exist. The choice of location is supported by authentic data, culled out from the databases of GVK EMRI and Road Accident Data Management Systems (RADMS).

GVK EMRI Operates Emergency Stabilisation Centres in the states of Goa and Tamil Nadu.

Capacity Building – for entire chain of Survival



Focused Training Programs



AAFP
American Academy of Family Physicians

American Academy of Family Physicians



ADVANCED LIFE SUPPORT OBSTETRICS (ALSO)

GVK EMRI is a not-for-profit organization established in 2005. GVK EMRI provides integrated '108' emergency response services in Public Private Partnership (PPP) model to over 750 Million people in India. GVK EMRI envisions to respond 30 Million emergencies and save 1 Million lives annually.

To bolster the quality of emergency care, GVK EMRI is resolutely taking forward initiative to extend and spread education and training in emergency care for spectrum of health care professionals and community level response personnel involved in emergency response and care. GVK EMRI ensures best education environment that fosters and stimulates learning of skills, knowledge and attitude to respond to an emergency situation and patient, effectively and efficiently. Contemporary learning methodologies, such as simulation with manikins and hands on practice are the foundation of GVK EMRI training & provide unique experiential learning opportunity to every single participant of training program. GVK EMRI strives to impart training at par with global standards of education and learning by partnering with best Institutes in the world.

The AAFP is authorised owner of ALSO Program and its copyright from the University of Wisconsin. GVK EMRI is the first and the only International Training Centre in India for ALSO. Currently ALSO is held in 62 countries. ALSO course is two day training detailing about management of potential obstetric emergencies during perinatal and post natal period. ALSO program helps the physicians and other health care providers to develop and maintain the skills and knowledge to effectively manage obstetric emergencies. This program additionally serves as an aid for training residents in obstetrics, family medicine as well as General Practitioners.

The course content is as follows:

- Safety in maternity Care
- Labor Dystocia
- Shoulder Dystocia
- First trimester complications
- Vaginal Bleeding in late pregnancy
- Preterm Labor / Premature Rupture of Membranes
- Maternal Resuscitation/Postpartum hemorrhage
- Assisted Vaginal Delivery
- Instrumental deliveries (Forceps, Vacuum)
- Mail-presentation
- Medical Complications in pregnancy
- Intra-partum Fetal Surveillance
- Mega-delivery Practice
- Obstetric Case Discussions
- Neonatal Resuscitation

Methodology:

- Audio-visual classes
- Skill Stations
- 1 : 1 student manikin ratio
- Written test and practical skill assessment
- Team Dynamics

Benefits

To the Participant

- Gains skills and knowledge related to obstetric emergencies
- Deals with complications related to antenatal, natal and postnatal stages
- Learns step-wise assessment based management in neonatal as well as maternal resuscitation
- Learns universal techniques to manage obstructive labor
- Valid certification and ALSO provider card

To the Organization

- Various levels of health care providers will be able to provide advance obstetric care
- Reduced maternal and neonatal mortality and morbidity
- Staff will be oriented to current obstetric care practices

To the Community

- Effective reduction in MMR, IMR
- Builds trust in the community with regards to health care facility
- With reduced IMR, communities adopt small family norms





**100K FIRST
RESPONSE**

What is Unique in this Innovation ?

- Integrated Emergency Response Services for Medical, Police and Fire emergencies with single universal toll-free number '108'
- Free services (no cost to citizen)
- PPP framework
- Private Partner brings leadership, innovation, execution and technological capabilities
- Conducting Research and building capability in Emergency Medicine and Management



A Gandhian Innovation that Synthesized Technologies



 **Harvard
Business
Review**

www.hbr.org

July-Aug 2010

A few Indian pioneers have figured out how to do more with fewer resources—for more people.

Innovation's Holy Grail

by C.K. Prahalad and R.A. Mashelkar

“ Combined cutting edge technologies (telecom, computing, medical and transportation) to create new capabilities for the first time in the World Scaled rapidly keeping costs low with Public Private Partnership (PPP) Drawn on the knowledge base of specialized institutions overseas and set the standards in India and developed unique research capabilities”

THANK YOU

www.emri.in