



BHISHM CUBE

Every Life Matters

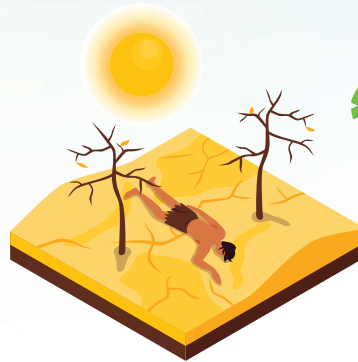




TYPES OF NATURAL DISASTERS



Earthquake



Drought



Volcano eruption



Cyclone



Flood



Tsunami



Forest Fire



Avalanche



Landslide



THE IMPACT OF NATURAL DISASTERS & MAN-MADE CRISES ON COMMUNITIES & ECOSYSTEMS

220 Million
people affected
by disasters in
2023-24

10x increase in
frequency
of global natural
disasters

45,000
fatalities caused
by natural
disasters
globally



28-Year High
in Deaths
resulting from
conflict-related
incidents

US\$223.80
Billion in
economic losses
from global natural
hazards & disasters
in 2024

387 Global
Natural Hazards
& Disasters
reported in
2022

Sources:

- 1. Centre for Research on the Epidemiology of Disasters
- 2. Our World in Data

- 3. Peace Research Institute Oslo
- 4. Institute of Economics and Peace
- 5. EM-DAT



AAROGYA MAITRI

STRENGTHENING THE SPINE OF PRIMARY HEALTH CARE (PHC)

“Health is the root of the village, the PHC its first gate of service.
Armed with Bhishm Device, it forever protects life.”

Core PHC Areas Covered & Strengthened by Aarogya Maitri Health Cube



1. Maternal and Child Health (RCH & MCH)

- Portable rapid diagnostics for anaemia, malnutrition, infections.
- Immediate maternal and newborn care even in disaster-struck or remote areas.
- Integrated with family planning & emergency obstetric care.



2. Nutrition Services (with ICDS)

- On-spot BMI & micronutrient deficiency detection (e.g., anaemia, Vitamin A).
- AI-enabled decision support to guide ICDS workers on nutrition advice.



3. School Health & Adolescent Health

- Mobile diagnosis for Vitamin A, IFA deficiency & chronic conditions.
- Enables weekly school health camps, reducing burden on teachers.



4. Safe Water & Sanitation, Endemic Disease Prevention

- On-ground triaging of vector-borne diseases (Malaria, JE, Dengue).
- Water-borne disease identification (e.g., fluorosis, iodine deficiency).



5. Non-Communicable Diseases (NCDs)

- In-built capacity for screening Diabetes, Hypertension, CVD, Cancer (NPCDCS).
- Continuous health tracking and early intervention via remote connectivity.



6. Mental Health & Tobacco Control

- AI-based mood/stress indicator screening (NMHP support).
- Counselling linkage & educational IEC materials for NTCP.



7. Basic Laboratory & Diagnostic Services

- Replaces lab dependency with point-of-care diagnostics for 24 parameters.
- Fully integrated with national programs like NNPCDCS, NPPCD, NTCP, and NVBDCP.



Introducing the BHISHM CUBE : A lifeline in times of Crisis

In the moments of unimaginable devastation – whether caused by earthquakes, floods, cyclones, tsunamis, volcanic eruptions, landslides, or even man-made disasters like wars – timely medical aid can make the difference between life and death.

The **BHISHM CUBE** is a revolutionary emergency medical kit designed to deliver immediate life-saving support to disaster-hit areas. Compact, portable and rapidly deployable, it serves as a critical lifeline when local healthcare infrastructure is overwhelmed or destroyed.

Engineered with care and foresight, the **BHISHM CUBE** is equipped to handle a wide range of emergency medical needs. It can be airlifted or transported by any means to reach even the most remote and inaccessible locations, ensuring that no life is left unsupported during a crisis.



A medical relief kit must be capable of providing comprehensive assistance, supporting up to 300 casualties in times of need.





FOUNDATIONAL PILLARS OF BHISHM (BHARAT HEALTH INITIATIVE FOR SAHYOG, HITA & MAITRI)

Treating within the Golden Hour



Delivering First Line of Treatment



Preserving & Safeguarding Lives



BHISHM Modular Trauma Kit





ADVANTAGES OF BHISHM CUBE & APP

EASY DEPLOYABILITY

(Air, Sea, Land, Para drop, Drone)



BHISHM APP ENABLES RAPID ASSISTANCE

Technology-based RFID tracking to prevent wastage



BHISHM



Bharat Health Initiative for Sahyog Hita & Maitri

EASY OPERATIONS AND DEPLOYMENT



Emergency Medicine

SUPPORTS SURVIVAL OF MEDICAL AND PARAMEDICAL TEAMS



Survivor Station



Power Station - Supports Survival



ADVANTAGES OF BHISHM CUBE DESIGN



Easily movable, ensuring quick set-up, wrap-up, and relocation



Self-sufficient to treat a broad spectrum of injuries



Low reliance on trained professionals to execute and provide basic first aid



Minimal or no waste



INTRODUCING BHISHM CUBE

WORLD-CLASS MANUFACTURING
TECHNOLOGY IN HEALTHCARE

project aarogya maitri



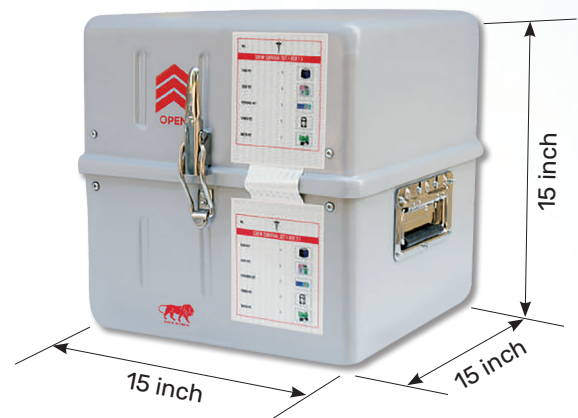
MOBILE MODULAR TRAUMA KIT





HUMANITARIAN ASSISTANCE & DISASTER RELIEF (HADR)

**EACH CUBE MEASURES
15 X 15 X 15 INCHES.
WEIGHT: UPTO 20KG**



**WEIGHT:
UPTO 850KG**





**In times of crisis, we ensure
comprehensive aid delivery
and inspire hope**



BHISHM



Bharat Health
Initiative for
Sahyog Hita
& Maitri

**MOBILE
MODULAR
TRAUMA KIT**

**Built on global
standards**

**Breakthrough design
for seamless mobility**

**Quality care through advanced
medical equipment**

**Optimized
functionality**

**Cutting-edge
technology**



THE LIFE-SAVING CUBES

The life-saving mini cubes are compact, sturdy, and easily transportable.

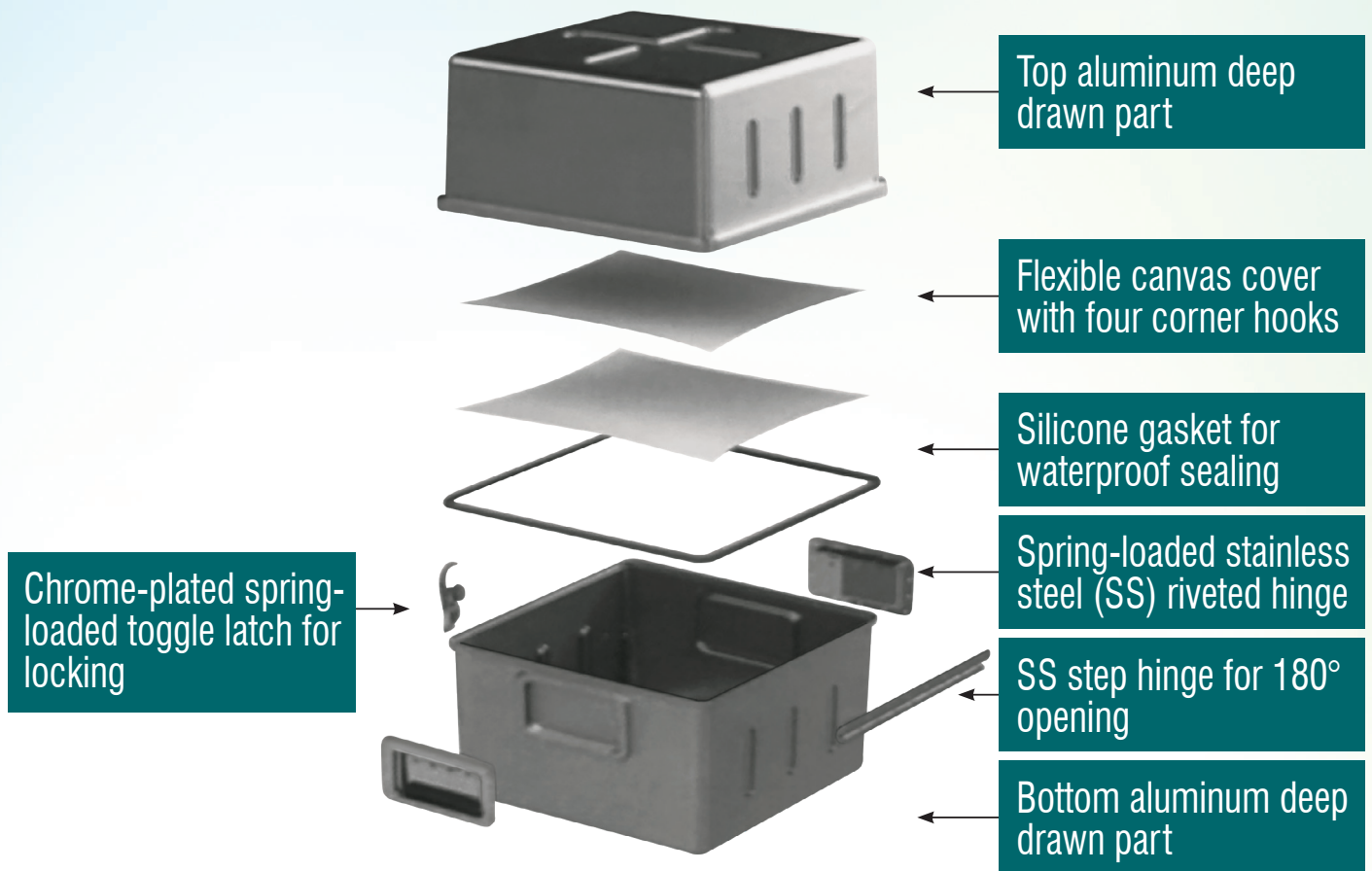
Each cube weighs less than 20 kg and can be carried manually for up to 1 km ideal for manual transport by individuals or via drones.

Each mini cube contains functional kits designed to address specific medical emergencies, especially in humanitarian assistance and disaster relief situations.

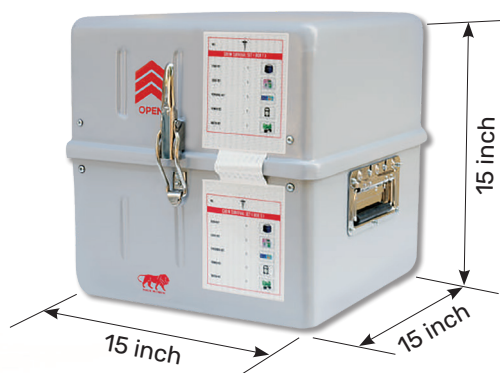




LIFE-SAVING mini CUBES - Exploded



THE LIFE-SAVING CUBES



Each cube measures 15 x 15 x 15 inches.
Weight: 20kg Maximum

The life-saving mini cubes are compact, sturdy, and easily transportable.

Each cube weighs below 20 kg and can be easily carried manually up to 1 km, perfect for individuals or drones. They are waterproof, lightweight, and can open in different configurations for versatile usage in various conditions. Each mini cube contains functional kits designed to address specific medical emergencies, particularly relevant in humanitarian assistance and disaster relief scenarios.



Built to global standards using approved trauma protocols:

Tactical Combat Casualty Care (TCCC)

MARCH Protocol:

M – Massive Hemorrhage

A – Airway

R – Respiratory

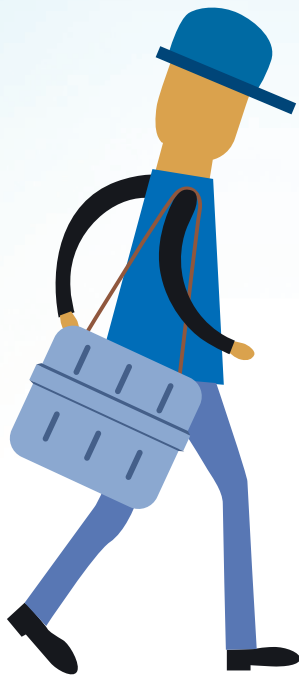
C – Circulation

H – Hypothermia

Advanced Trauma Life Support (ATLS)



CUBE DIMENSIONS OPTIMIZED FOR SIZE AND CARRYING CAPACITY



Messenger



Briefcase



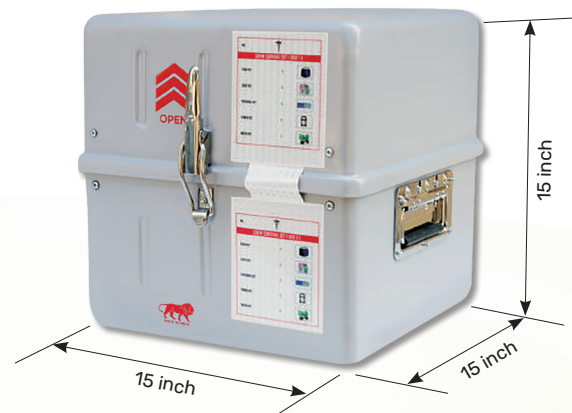
Stroller

These ergonomically designed cubes strike a balance between volume and ease of human transport.

They are nimble enough to be carried by quadcopters, motor vehicles, pack animals, boats, and more.



Tag Team



Each cube measures 15 x 15 x 15 inches.



TRANSPORTATION OF CUBE



Helicopter Winching



Airdrop



Drone



Truck



Bike



Car

ADVANCED MEDICAL EQUIPMENTS



Infusion Pump



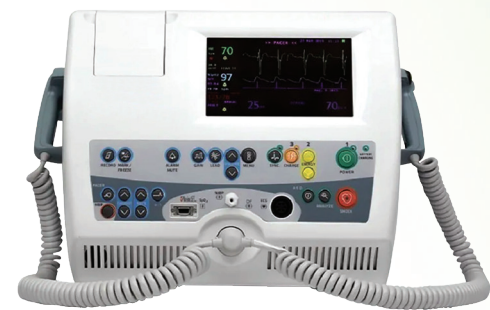
Pneumatic Tourniquet



ECG Machine



Portable Ultrasound



Defibrillator



Portable X-Ray Machine



Blood & Fluid Warmer



BHISHM CUBE 1 MINI CUBE SETS

- Crew Survival kit
- Crew Tent Set
- Survivor Food set
- Survivor Water Set
- Generator Set
- Survivor Tent and Blanket Set
- Emergency camp light Set
- Patient Examination & Documentation Set
- Mass Casualty Triage Set
- Major Bleeding Control Set
- Airways Management Set
- Chest, Spinal, Head and Abdominal injury Set
- Wound Dressing Set
- Burn Dressing Set
- Fracture Management Set
- Hypovolemic Shock Set
- Snake Bite Set
- Suction Set, Ac Poisoning Set
- Oxygen Support Set
- Antibiotic & Pain Management Set
- Imaging Set
- AED Set
- Chest Tube Insertion Set
- Oral Medication, Seizure Malaria & OPD patient Set
- Normal Saline Set
- Ringer Lactate (RL) Set



BHISHM CUBE 2 MINI CUBE SETS

- Patient Examination & Documentation Set
- Intubation Set and Cardiac Emergency Set
- Nebulization Set
- Foley's Catheterization Set
- Surgical Tracheotomy Set
- Surgical Wound Debridement Set
- Surgical Bleeding Control Set
- Surgical Suprapubic Cystostomy Set
- Burn Dressing, Traumatic injury, Pelvic Injury & Head Injury Set
- Wound Dressing, Pelvic Injury & Misc Injury Set
- Antibiotic, GI emergency, Life threatening Inf, Resp Emergency, Pain Management Set
- Hypovolemic Shock Set & Bullet injury Set
- Anesthesia Medication and Caesarean Section Set
- Suction Set
- Ventilator Set
- Oxygen Support Set
- Defibrillator Set
- Portable Lab Set
- Lab Card Test Set
- Imaging Set
- Surgical OT Light Set
- Surgical Operating Headlights Set
- Surgical Gown and Drape Set
- Surgical Instrument Set
- Surgical Autoclave Set
- Biomedical Waste management Set
- Oral Medication Set
- Normal Saline (NS) Set
- Ringer Lactate Set





QUALITY CARE THROUGH ADVANCED MEDICAL EQUIPMENT AND QUICK & EASY KITS

BHISHM Cube 1 includes advanced medical equipment such as a portable ventilator, multi-parameter monitor, blood warmer, high-rate infusion device, and ultrasound for focused trauma assessment.



Quick and Easy to use Kits provided



O2-Matic Oxygen Plant with Refill



Multi-Parameter Monitor

WHAT DOES BHISHM CUBE 1 INCLUDE?

Cube 1 is a self-sufficient unit equipped with survival, TCCC, and basic ATLS tools. It can accommodate a crew of 6 for approximately 48 hours, providing essential supplies – including food, water, shelter, and power.



TCCC

ATLS



SURVIVOR AID STATION

WHAT DOES BHISHM CUBE 2 INCLUDE?

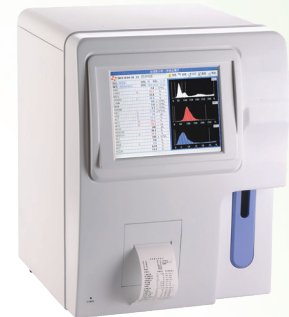
Cube 2 contains advanced surgical tools, including an on-field operating theatre (OT) for emergency surgeries. It includes an operating table, ventilator, anesthesia, and other essential infrastructure, enabling the surgical team to perform 10-15 surgeries per day during crises.



**O2-MATIC PORTIA:
INSTANT OXYGEN
GENERATOR**



**EMERGENCY
MEDICINES**



**PORTABLE
LAB**

**SURGICAL
OT TABLE**





CUTTING-EDGE TECHNOLOGY



APP IN MULTIPLE LANGUAGES

The BHISHM App is a user-friendly application developed for medical and paramedical professionals. It serves as a comprehensive resource, offering crucial information on the inventory of medicines, surgical supplies, and emergency medical equipment. The application is accompanied by a digital tablet featuring instructional videos on the treatment protocols and installation procedures for the kit.

Key Modules Include:



Surgical Supplies



Equipment



Fluids



Pharmaceuticals



Miscellaneous Items



Instructional Videos



Multi-Language





RFID TECHNOLOGY



BHISHM Modular Trauma Kit is integrated with **RFID technology**, enabling efficient product tracking, inventory management, and waste reduction.

OPTIMIZED FUNCTIONALITY: TRIAGE SYSTEMS

The BHISHM CUBE employs a triage-based system to prioritize treatment according to the patient's condition and urgency:



**PRIORITY I STATION
(RED):**

Patients with life-threatening injuries or conditions requiring immediate medical attention are stabilized and transported first.


The image shows five black triage kits laid out on a red surface. Each kit is labeled with a specific medical condition: PAIN & ANTIBIOTIC KIT, SHOCK KIT, CHEST INJURY KIT, AIRWAY KIT, and BLEEDING KIT. Above the kits, various medical supplies like syringes, vials, and tubes are visible.



**PRIORITY II STATION
(YELLOW):**

Individuals with serious but non-life-threatening injuries receive prompt treatment, as they are likely to recover faster than Priority I patients.

The image shows four black triage kits laid out on a yellow surface. Each kit is labeled with a specific medical condition: NEBULISATION KIT, SNAKE BITE KIT, MAJOR BURNS KIT, and MAJOR BURNS KIT. Above the kits, various medical supplies like syringes and vials are visible.



**PRIORITY III STATION
(GREEN):**

Patients with minor, non-critical injuries that do not pose immediate danger are treated subsequently.

The image shows three black triage kits laid out on a green surface. Each kit is labeled with a specific medical condition: FRACTURE KIT, WOUND & BURNS KIT, and EYE INJURY KIT. Above the kits, various medical supplies like syringes and vials are visible.



RESCUE OPERATIONS & EMERGENCY SUPPORT O2-MATIC Rescue Device



Potential Robotics' innovative rescue attachment is a remote-controlled water rescue device, built for challenging environments.

- Speed: Up to 15 km/h.
- Load Capacity: 200 kg.
- Features: Operates in stormy conditions, enhances rescue efficiency

O2-MATIC PORTIA: Instant Oxygen Generator



- The world's first emergency oxygen generator delivering 99.7% pure oxygen within 40 seconds.
- Portable and power-free
- Ideal for field conditions
- Supports continuous oxygen administration in critical scenarios.



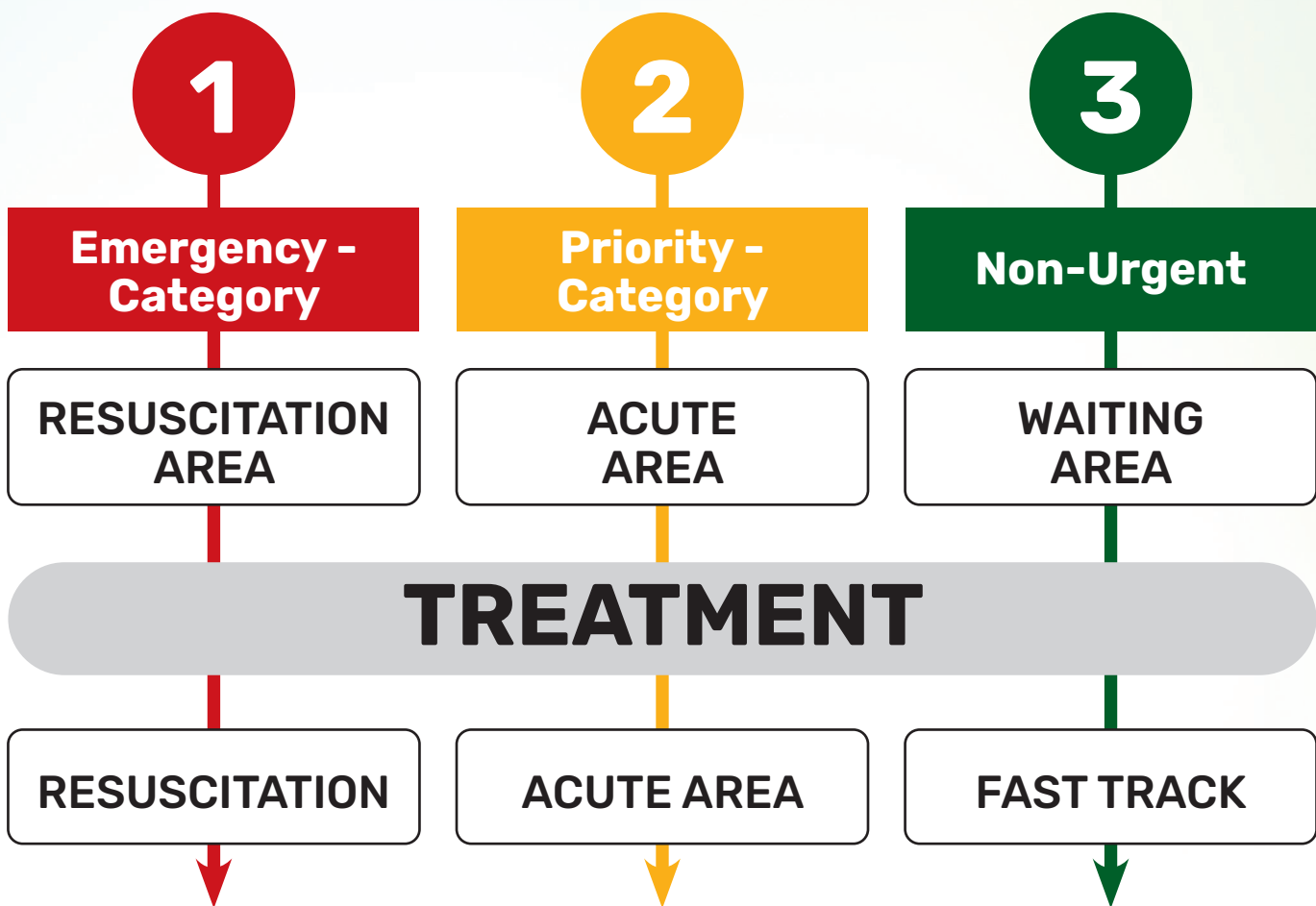
OPTIMIZED FUNCTIONALITY: PATIENT FLOW

A well-defined patient flow system ensures efficient handling and triage of casualties:

ZONES OF CARE:

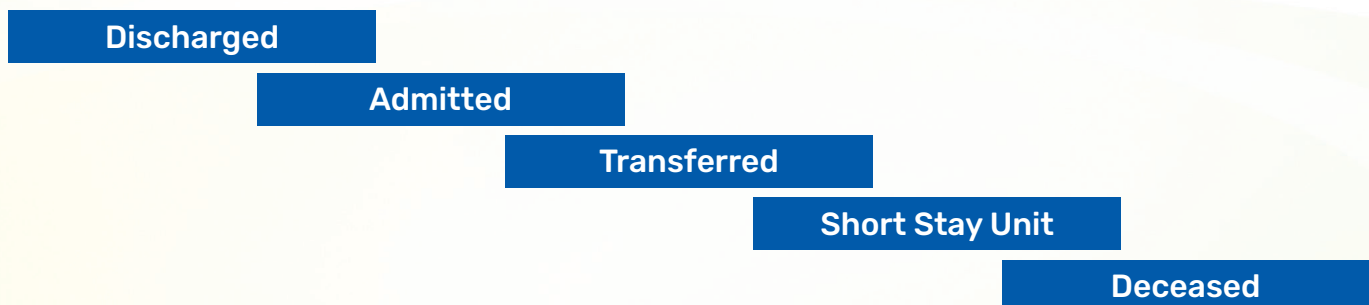
Resuscitation Area - Acute Care Area - Waiting Area

CATEGORIES



TREATMENT

DISPOSITION OUTCOMES:





CAPABILITIES FOR 300 PATIENTS

180 X GENERAL/MEDICAL

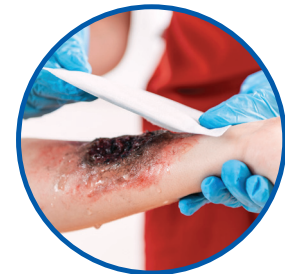
- 50 X OPD Patients
- 20 X Acute Poisoning Cases
- 25 X GI Emergencies
- 25 X Life-Threatening Infections
- 20 X Respiratory Emergencies
- 20 X Malaria Cases
- 10 X Cardiac Emergencies



**45 X
PAEDIATRIC BRICK
CHILDREN KIT**



**15 X
MAJOR
BLEEDS**



**10 X
MAJOR
BURNS**



**10 X
LONG LIMB
FRACTURES**



**15 X
TRAUMATIC
SURGERIES**



**10 X
SPINAL
INJURIES**



CAPABILITIES FOR 300 PATIENTS



**3 X
CHEST
INJURIES**



**3 X
HEAD
INJURIES**



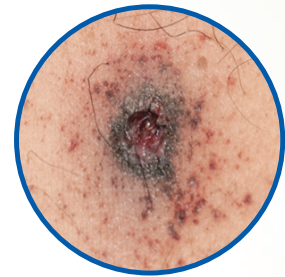
**3 X
ABDOMINAL
INJURIES**



**3 X
PELVIC
FRACTURES**



**3 X
MISC. INJURIES URETHRA,
NOSE, EYE, HAND ETC.**



**2 X
BULLET
INJURIES**



3 LARGE TENTS WITH 6 BEDS



Hon'ble Prime Minister Shri Narendra Modi gifts 4 BHISHM Cubes to Ukraine President Mr. Zelensky - August 2024





DEMO TO DEFENSE MINISTER AND HEALTH MINISTER





DEMONSTRATION AT INDO US HADR EXERCISE



DEMO TO DEFENSE SECRETARY AND DG NATIONAL DISASTER RELIEF FORCE



Members of the Aarogya Maitri team displaying to Defense Secretary & DG National Disaster Relief Force



DEMO TO CHIEF OF DEFENCE STAFF



Members of the Aarogya Maitri team displaying to Chief of Defence Staff





DEMONSTRATION DURING G20



During G20 Event, Tedros Adhanom Ghebreyesus, Director - General, WHO accompanied by Hon'ble Minister of Health from India, Shri Mansukh L. Mandaviya at the BHISHM Cube Exhibits.

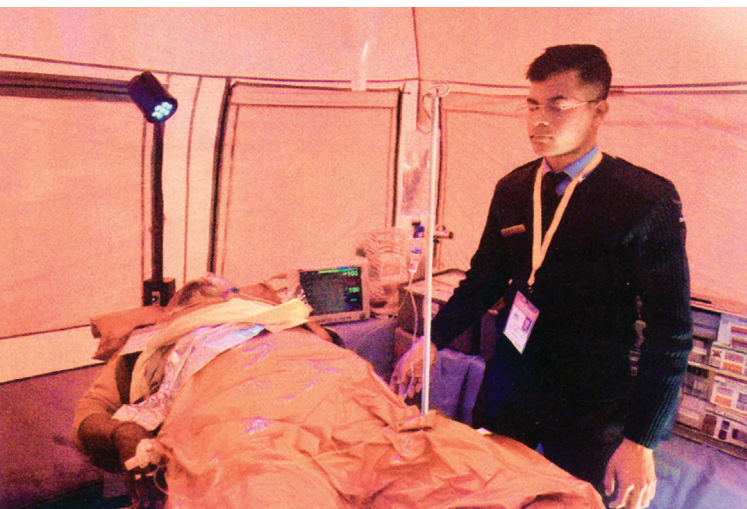


During G20 Event, Hon'ble Minister of Health from Japan, Katsunobu Kato visiting the BHISHM Cube Exhibits



BHISHM CUBES AT AYODHYA

BHISHM Cubes were deployed for the 'Pran-Pratishtha' ceremony, in Ayodhya, "providing on-site treatment, capitalising on the critical golden hour."



In a timely medical intervention, BHISHM Cube - Project Aarogya Maitri Team saved a devotee who suffered a heart attack while attending the Pran-Pratishtha event at the Ram temple. Ayodhya



EVERY LIFE MATTERS





READY TO SAVE LIVES ANYTIME! EVERYTIME!

A MADE IN INDIA
PRODUCT FOR THE
WORLD





BHISHM



Bharat Health
Initiative for
Sahyog Hita
& Maitri



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