

Manipal Academy of Higher Education

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MELIORA 2023-THE STUDENT MEDICAL
CONFERENCE OF KMC MANIPAL

Day-2: Eureka-Healthcare Hackathon

Aug 2nd, 10:00 AM - 1:00 PM

CoordinEase - Coordinated Solutions for Emergency Services

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CoordinEase

Coordinated Solutions for Emergency Services

A presentation by
Vinutha J.B.
Nikshap Chandrashekhar
Mohit Singh Chauhan
Akanksha Singh

About Us

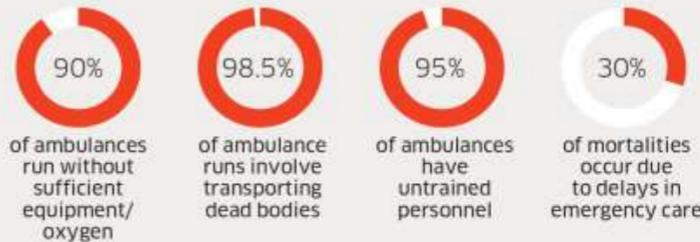


- The main focus of CoordinEase lies in enhancing patient care during the **“Golden Hour”**
- **Cloud based design** which is built to provide real time patient information.
- Ensure a smoother transfer of patients and helps to facilitate prompt medical intervention.
- Every minute of the Golden Hour is precious, and our goal is to ensure that no patient faces delayed access to emergency care.

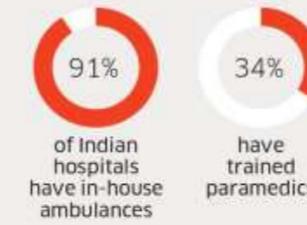
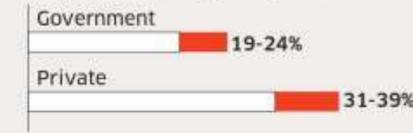


RED ALERT

More than 50% of deaths in lower middle-income countries could be averted with pre-hospital and emergency care



Nearly a quarter of all cases brought to government hospitals require emergency care



Increasing transit time increases the risk of mortality. Our data suggest that a 10-km increase in straight-line distance is associated with around a 1% absolute increase in mortality.

Government ambulance services
In 35 States/UTs, people can dial **108** or **102** to call an ambulance
Operational costs for 102 and 108 are covered under the **National Health Mission (NHM)**.

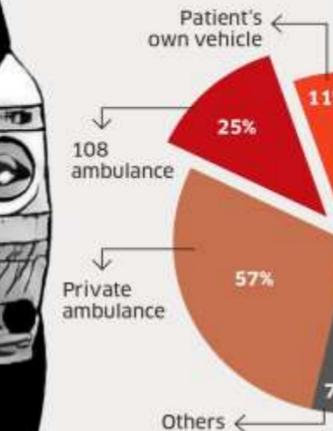
108	102
Dial 108 is primarily designed to attend to critical care patients, trauma and accident victims.	Dial 102 services consist of basic patient transport, including inter-facility transfers and free transfer from home to facility for pregnant women, new mothers and children.
10,993 ambulances are being supported under 108 emergency transport systems.	9,955 ambulances are operating as 102 patient transport.
5,126 empanelled vehicles are also being used to provide transport to pregnant women and children.	



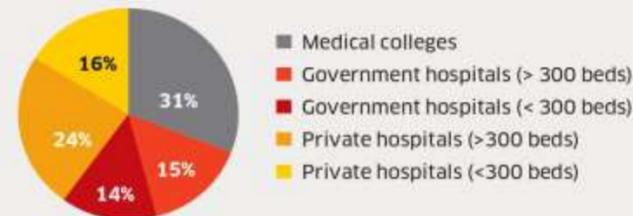
As per the Medical Council of India:

- For hospitals with > 300 beds, 1 ambulance should be present
- For hospitals with > 500 beds, 2 ambulances should be present

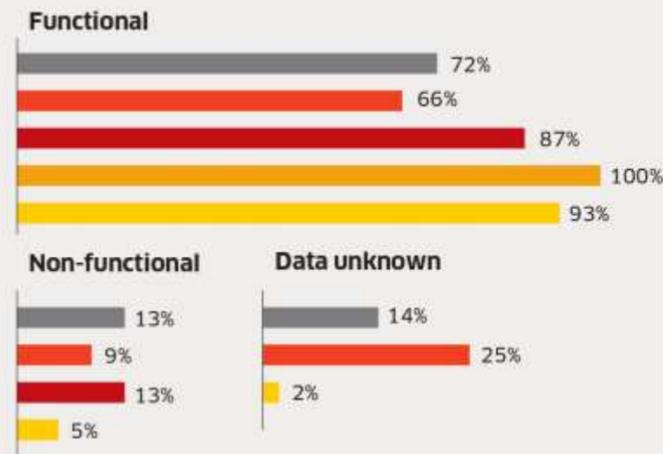
Patient transfer in the absence of a hospital ambulance



Availability of ambulances



13% of large government hospitals do not have a functional ambulance service



Ambulances Operational under NHM*

State	Dial 108	Dial 102/104	Other patient transport vehicles	Total ambulances under National Health Mission
Assam	380	316	235	931
Bihar	10	799	44	853
Chandigarh	6	9	0	15
Jharkhand	0	0	2,581	2,581
Karnataka	711	0	200	911
Kerala	43	0	0	43
Tamil Nadu	829	0	0	829
Uttar Pradesh	1,488	2,270	150	3,908
Uttarakhand	139	109	0	248
West Bengal	0	0	2,635	2,635

*as on Sept 2017



Our Aims



Streamlining communication between emergency services and hospitals as well as between hospitals.

Bring down patient mortality by making sure that precious time is not spent in paperwork or investigations which have already been performed.

Act as an effective bridge between emergency services and hospitals, making the referral process smooth and hassle free.



Electronic
medical records

Effective usage of telecommunication
and data transfer

Real time updates on vitals

Integration with GPS technology

What sets us
apart?



Designation and ranking
of trauma units



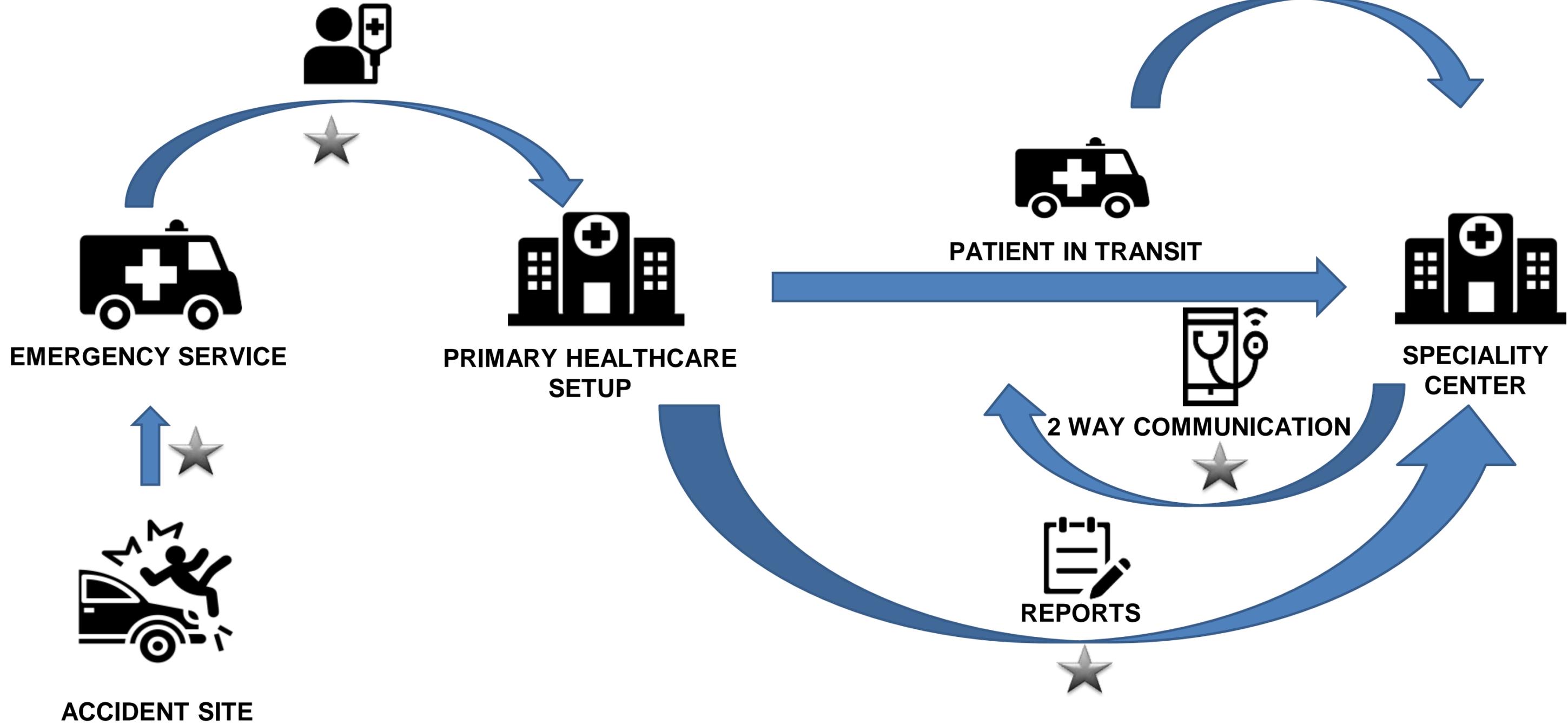
Advanced analytics and reporting

Intuitive multilingual interface

Workshops, simulations and
community outreach programmes

What sets us
apart?

Workflow





Although teleconsultation services related to emergencies do exist, our platform stands apart from them

Our unique interface and the following features differentiate us from competitors:

- Intelligent triaging
- Location tracking
- Usage of integrated EMRs and live vital tracking

Potential Competitors

Comprehensive care which focuses on evaluating and improving patient outcome

Associated Risks

- Lack of acceptance from healthcare services – resistance to change
- Need for training and integration into existing systems.
- Worries about data security
- Dynamic regulatory environment which may need constant maintenance
- Last three problems can be solved with careful risk management.



Investment Plan

- **Improvement of our platforms capabilities and technical infrastructure will be our main goal.**
- **Working on ensuring data privacy.**
- **Collaborations with more healthcare setups, from the grassroots level to specialized centers.**
- **Research and development to keep the platform up to date with the evolving industry standards and new protocols.**
- **Awareness campaigns for the public as well as for healthcare services.**



Bibliography



References:

- Nicholl J, West J, Goodacre S, Turner J. The relationship between distance to hospital and patient mortality in emergencies: an observational study. *Emerg Med J.* 2007 Sep;24(9):665-8. doi: 10.1136/emj.2007.047654. PMID: 17711952; PMCID:PMC2464671.
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Image sources:

- Pxfuel
- Shutterstock
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THANK YOU