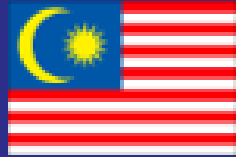


TXP Medical Co. Ltd.

DX Demonstration Project in Emergency Medicine at Tertiary Care Hospitals in Malaysia



Objective of the project

The aim is to advance digital transformation within Malaysia's emergency medical services, to alleviate operational burdens and enhance the efficiency of information sharing.

Despite advancement in overall healthcare in Malaysia, the digitalization of operations in emergency medical services has not progressed, which remains challenges in information sharing. Malaysia's emergency medical services vary and have different operational frameworks, which has caused difficulty in standardizing information sharing processes.

Cooperation with local companies/governments

- Universiti Sains Malaysia
- Universiti Kebangsaan Malaysia
- University Malaysia Medical Centre
- Sultan Ahmad Shah Medical Centre

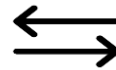
Pilot sites

IDS Medical System

Distributor

Higashi Medical Solutions

Market research



TXP Medical

Praxis Design

Project support

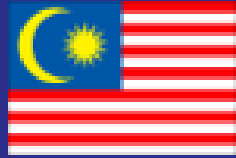
Targeted economic/social issues

Through discussions with emergency physicians and other healthcare workers at tertiary medical institutions, various local challenges regarding emergency medical care were identified. These include issues such as the low quality and busyness of pre-hospital care, the lack of efficient processes, and the difficulty in getting necessary patient information from emergency services. This often leads to healthcare providers' encountering patients with more severe conditions when transported than expected at first. Additionally, the absence of electronic medical records in emergency departments makes documentation tasks significantly burdensome. On the other hand, conversations with personnel who are responsible for pre-hospital care showed that swiftly transporting patients to emergency hospitals was to be prioritized over gathering and recording detailed information. They pointed out challenges such as limited time for assessments and documentation during transportation, as well as insufficient staff in ambulances.

In summary, despite advancement in overall healthcare in Malaysia, there remains a significant gap in establishing effective ways to transfer patient information smoothly from pre-hospital to hospital care settings, especially in the context of emergency medicine.

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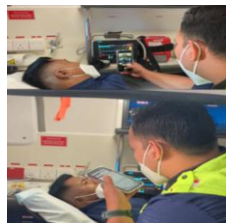
Demonstration Period

August 2022 – January 2024

Details of demonstration

In this project, in collaboration with four university hospitals and their affiliated Medical Emergency Coordinating Centers (MECC) (paramedics), we implemented our solutions, NSER mobile, NEXT Stage ER, and TXP Self-Assessment System, to promote the digitalization of operations in both emergency departments and ambulances.

NSER mobile is an AI-based smartphone application for emergency medical teams that allows patient information to be entered quickly via voice inputs and image. NEXT Stage ER is a patient information recording and management system specialized for emergency rooms. It simultaneously realizes efficient recording of patient information, information sharing among staff, and data collection for research in busy clinical settings. TXP-Self Assessment System is a system where patients can input their data on their smartphones.



Project outcome / Future Plans

NSER mobile has demonstrated high usage rates and satisfaction levels, successfully reducing operational time. Therefore, we have decided to focus on this solution, considering resource allocation in this operation in the future. However, we encountered challenges in budgeting for university hospitals, and we were unable to implement the paid version of the solution. This was due to inadequate pricing strategies and insufficient involvement of management level. Additionally, the vulnerability of the internet environment is also a challenge, and there is an increasing number of competing vendors offering similar services. These issues found in the project must be addressed as well.

The future strategy involves continuing negotiations with medical institutions and reaching out to private ambulance services. We plan to develop a program that takes into account the Internet environment and eliminate system delays. Additionally, we have decided to collaborate with local partner IDS Med and participate in the NSER mobile bidding project for Universiti Sultan Zainal Abidin. While maintaining proactive engagement with MECC, medical institutions, and private ambulance services, we plan to consider deploying ICU-specific department systems. Leveraging our network, we aim to drive forward the deployment of these systems.