



Establishment of a triage system through a Tele- Training program (TTP) at rural secondary care level hospital

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BACKGROUND

- Quality emergency care system (q-ECS) is in nascent stage in India.
- Lack of skilled human resources, processes, sub-optimal infrastructure, & distant referral centers are major bottle necks in delivery of quality emergency care service.
- Capacity building is important low-cost high impact solution but difficult to disseminate in remote areas.
- Triage is one of such intervention which proven to be economic and effective but less practiced in India.
- Tele-education offers a pragmatic and reasonably effective alternative to conventional
- Tele-Training Programs (TTP) may improve quality of patient care but limited data in rural areas.
- This study was conducted to assess the effectiveness of TTP in emergency department (ED) triage implementation in a rural secondary care hospital.

OBJECTIVE

- To know the current status, barriers and facilitators of emergency triage system
- To co-design and implement the triage system through tele-training program (TTP) at rural secondary care level hospital

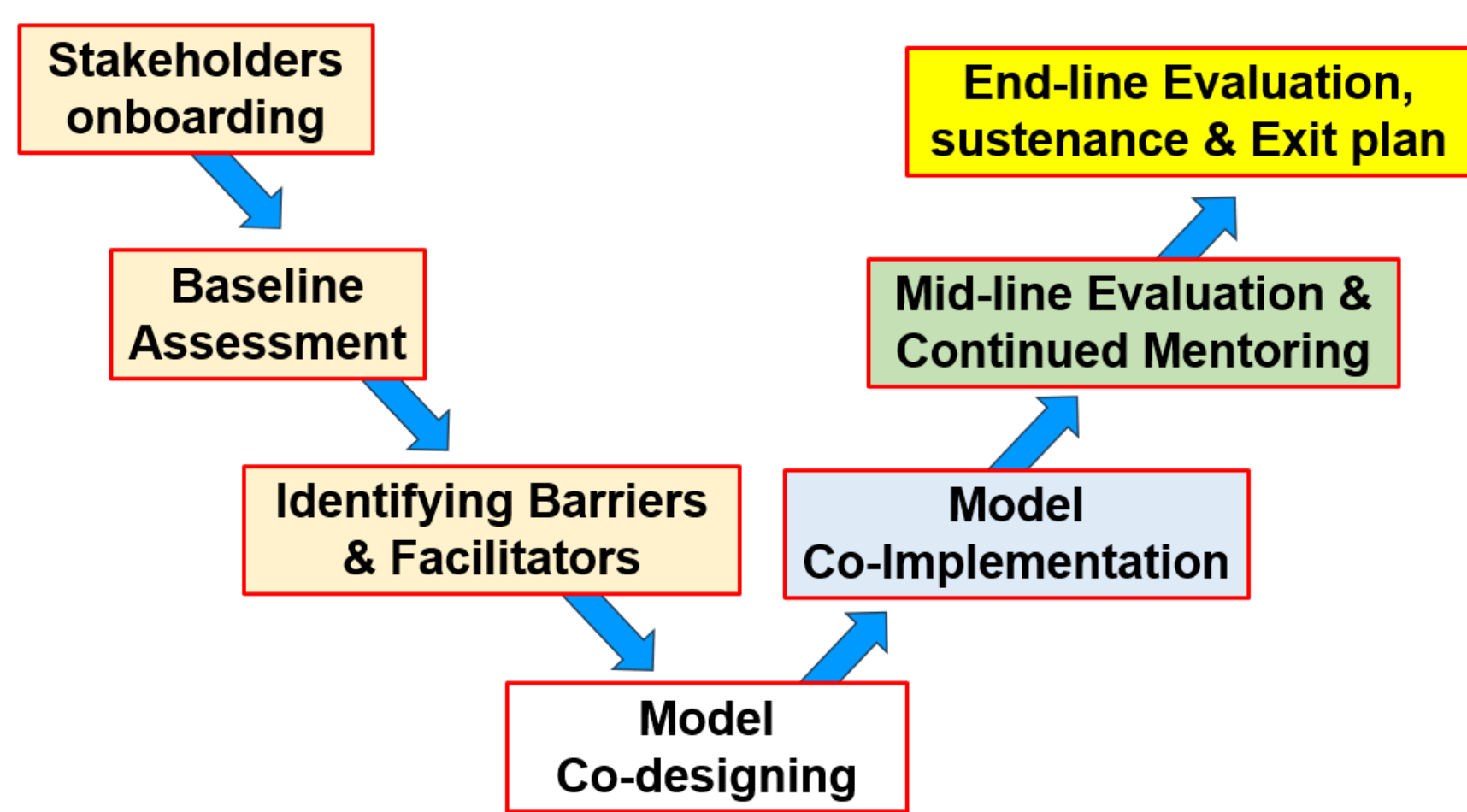
METHODOLOGY

Study Method : Mixed-method study

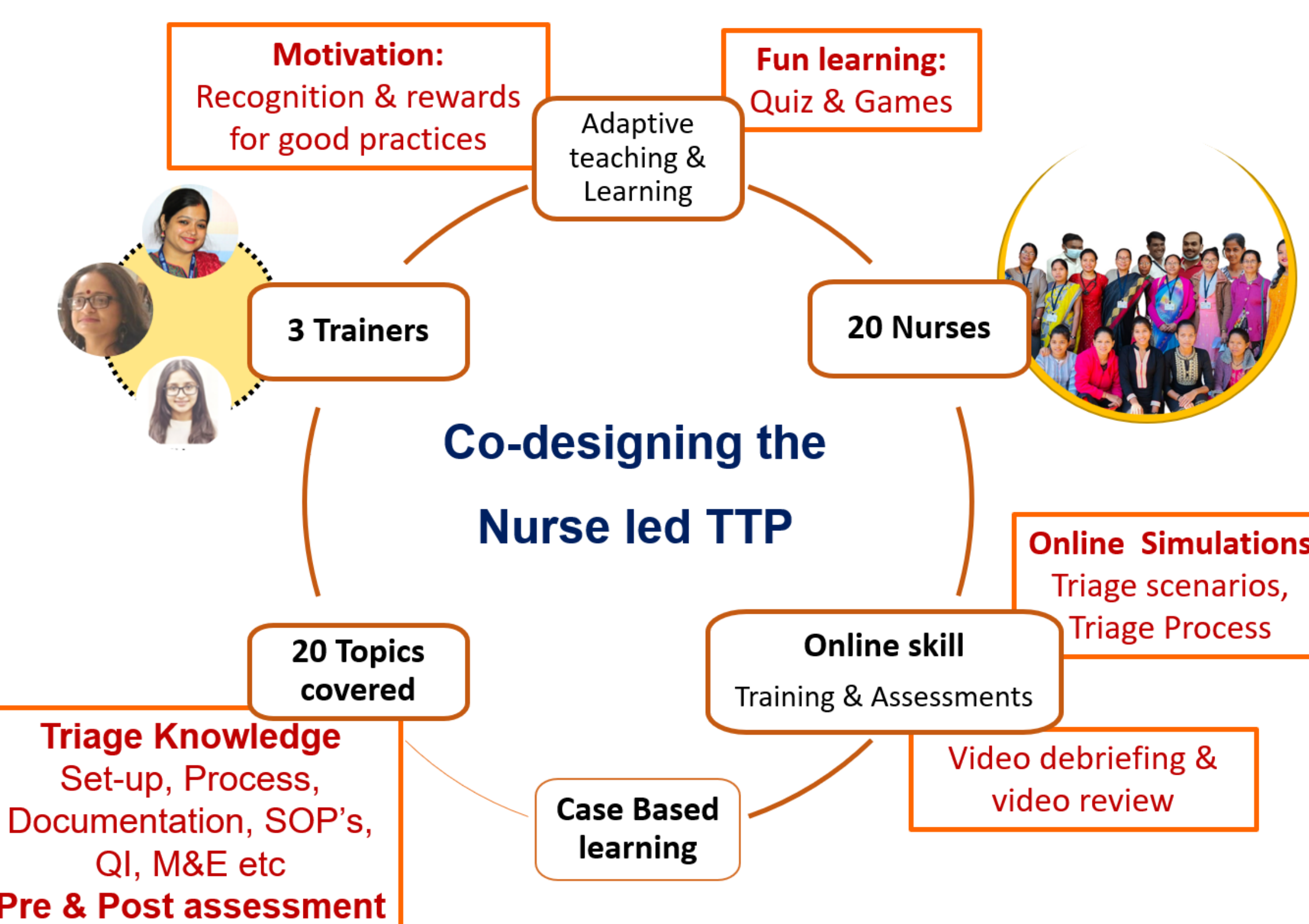
Study site – SEARCH (Society for Education, Action and Research in Community Health, Gadchiroli, Maharashtra, India)

Study Duration- April 2020 – August 2021

Methodology (Implementation Plan)



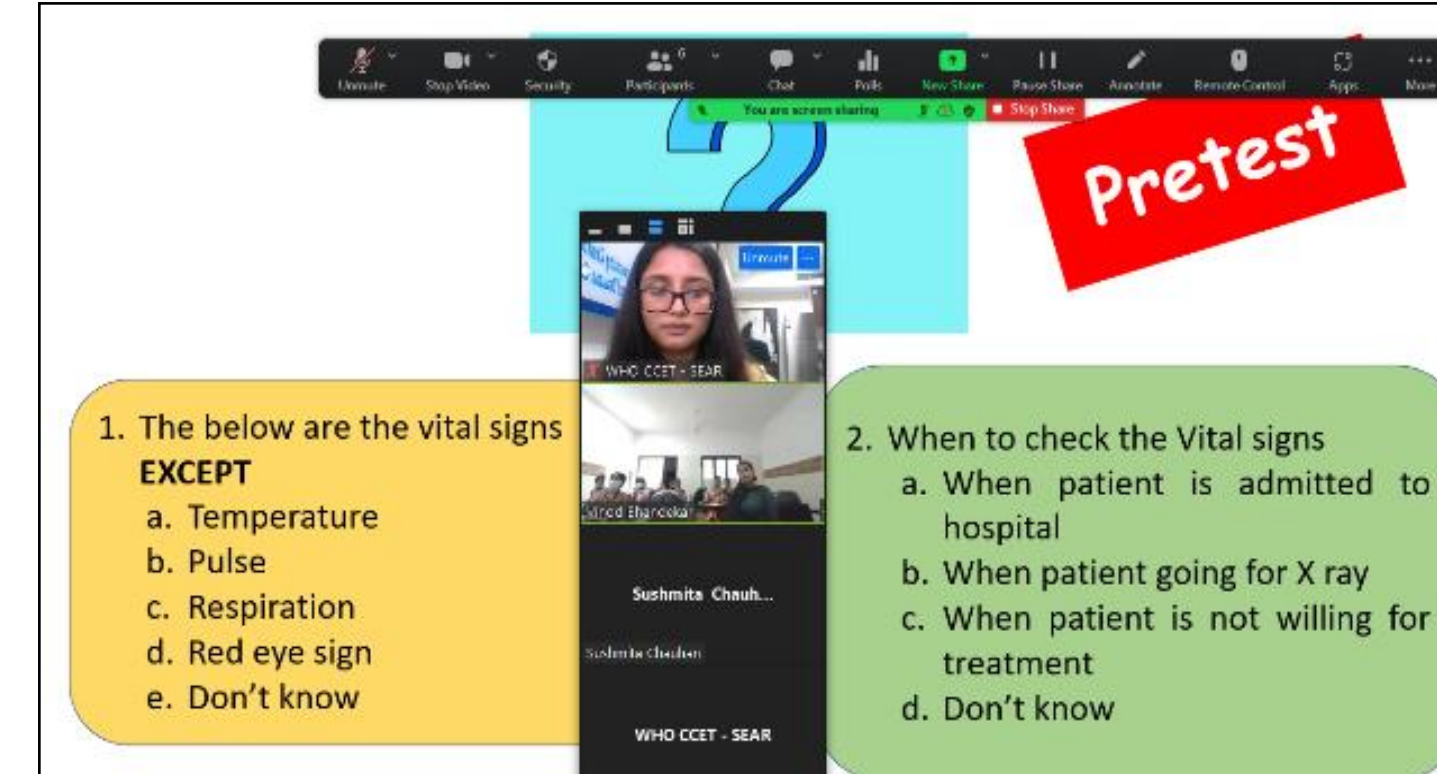
Challenges	Solutions
Language Barriers	Multilingual teaching with translation with the help of SEARCH coordinators
COVID-19 Pandemic	Adhering to social distancing guidelines in the classroom, sharing recorded sessions
Lack of medical education background	Using simplified content that includes fundamental scientific explanations
Timing issues	Keeping flexible session timings & sharing recorded session
Poor documentation	Implementing regular mentoring, coordination & communication with nurses
Less Technology-Friendly	Providing assistance & guidance on technology usage through SEARCH nurse coordinators



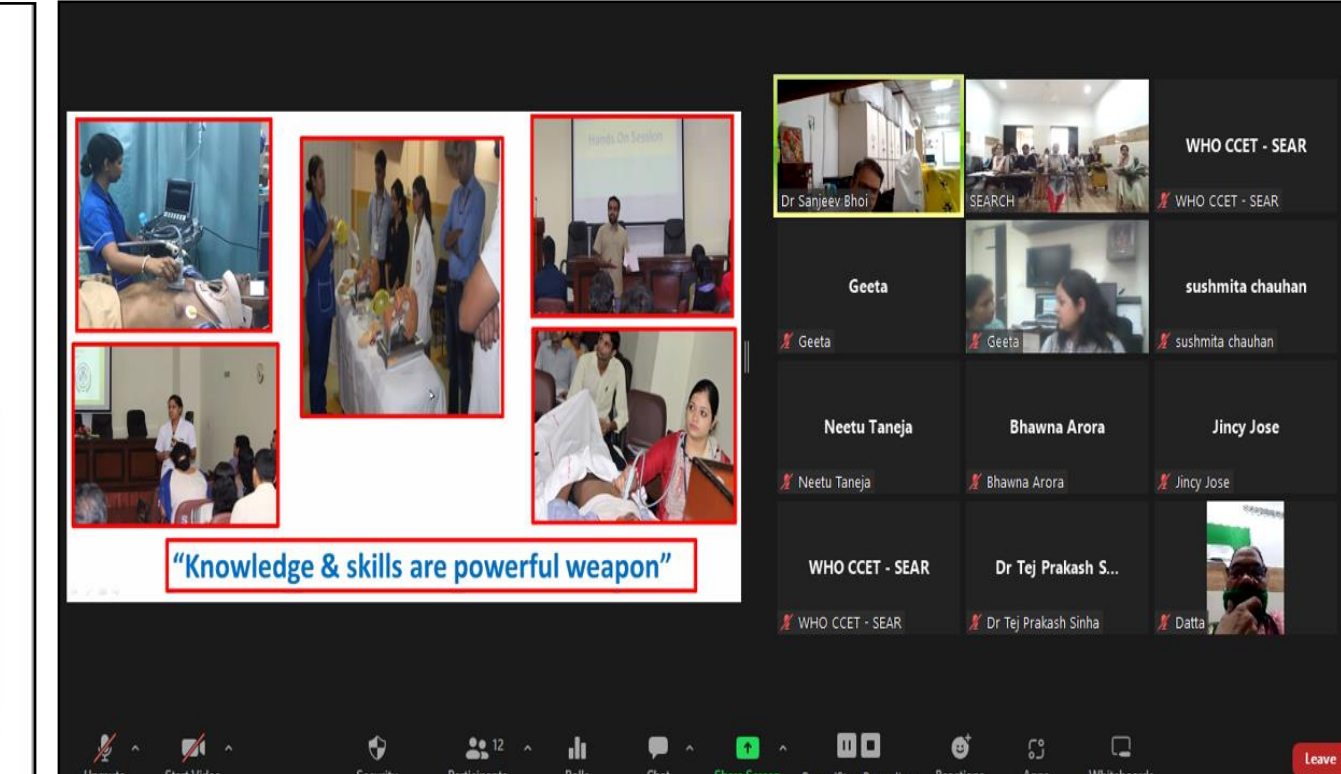
CO - IMPLEMENTATION



Developing local functional team



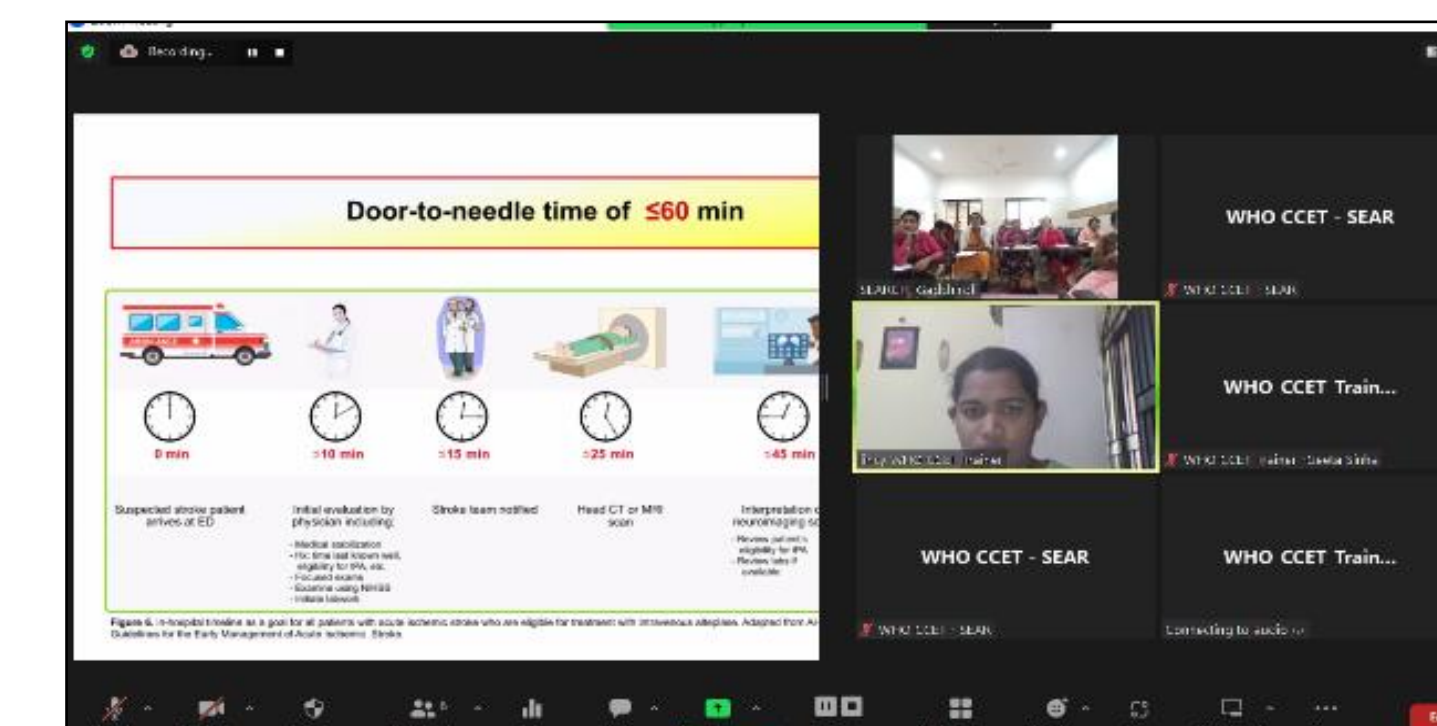
Assessments



Online mentoring and motivation



Training Of Trainers



Online Knowledge Sessions



Online Skill Sessions

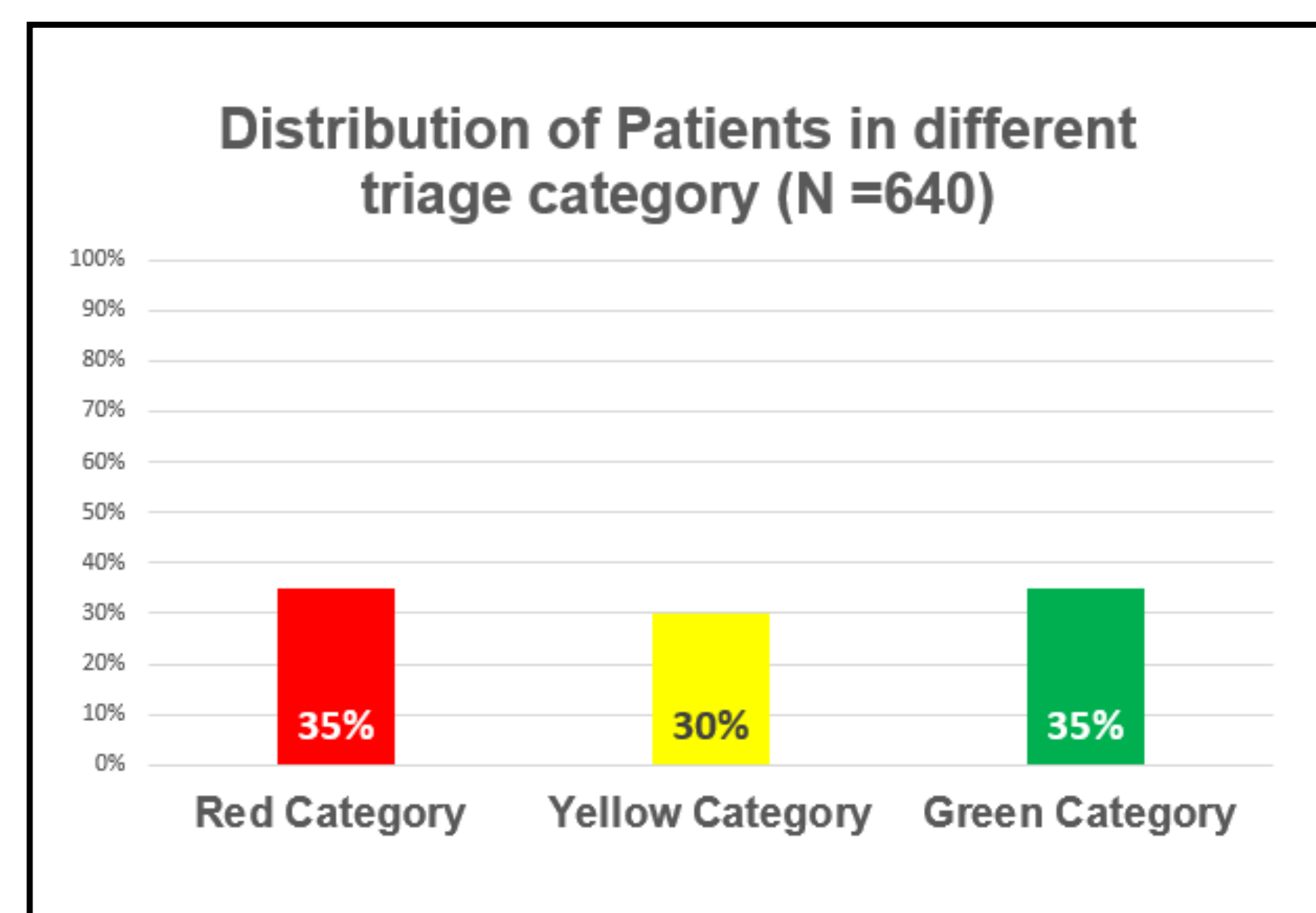
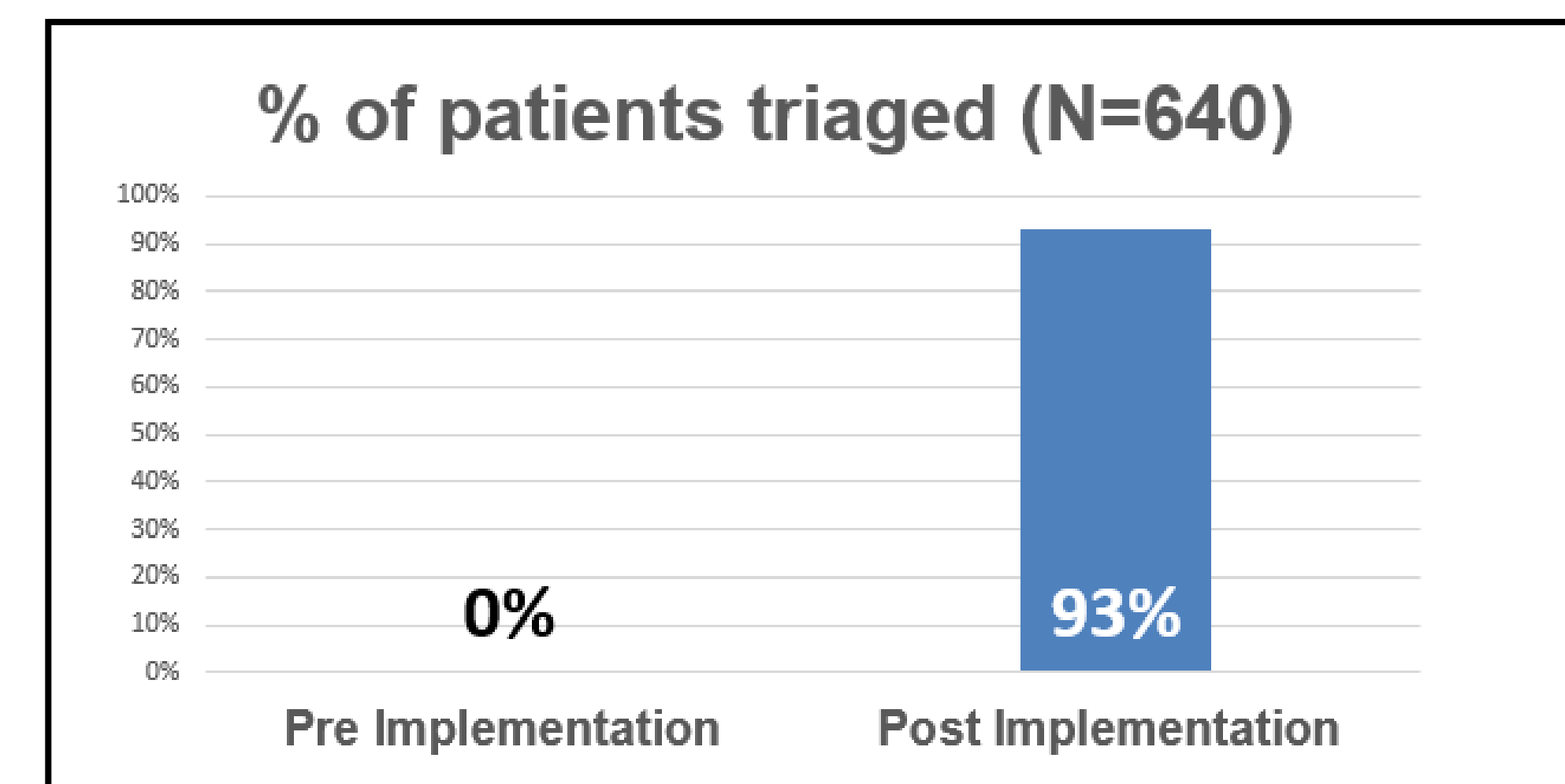
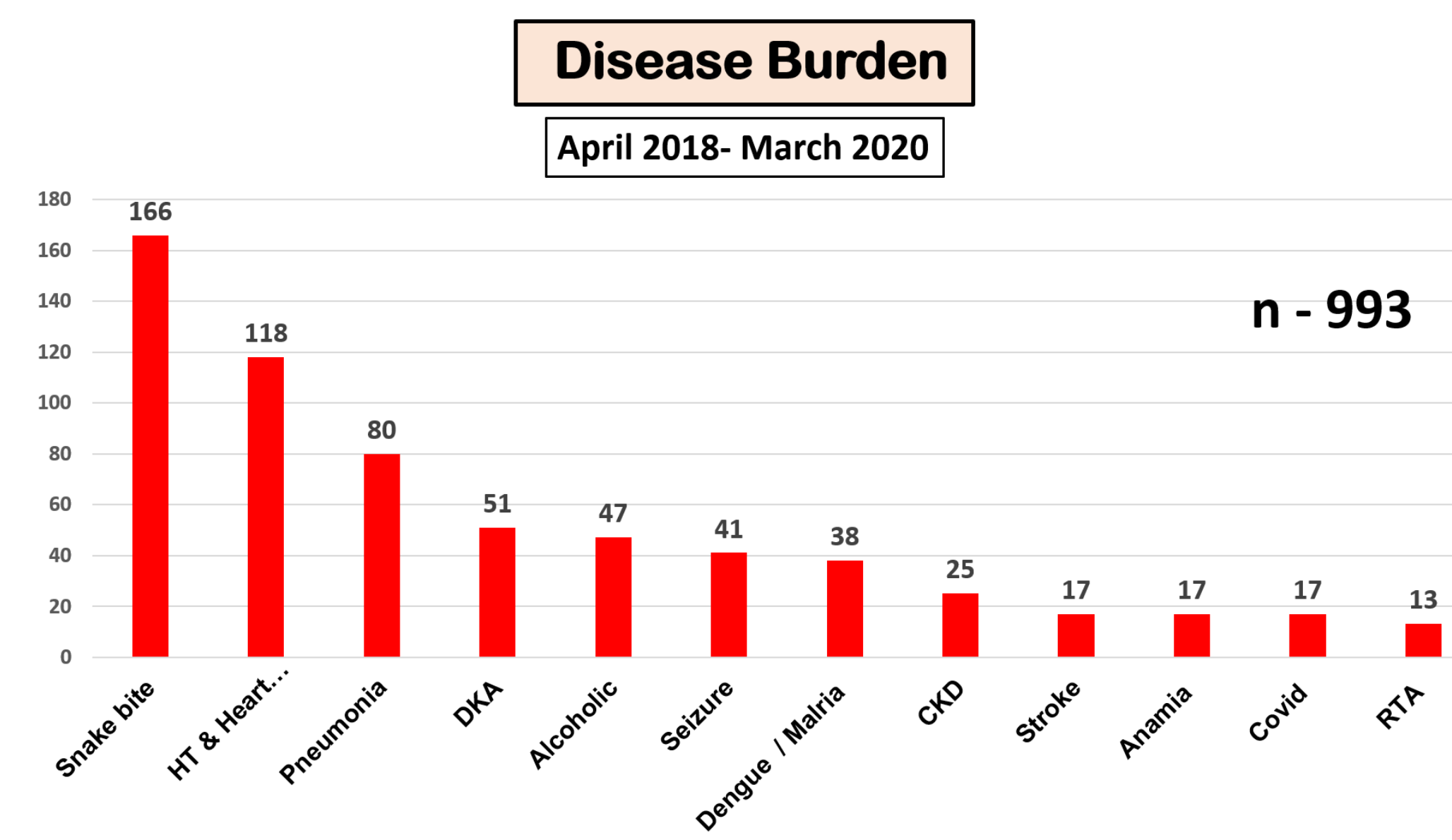


Case-based discussions



Creating local trainers

RESULTS



- 85% improvement in overall knowledge
- The referral system and indoor admissions has improved.



DISCUSSION

- Mostafa B et.al found; lack of clinical competency and psychological capabilities as major barriers affecting triage quality. our study where lack of basic medical knowledge and language of communication were the major barriers
- The training provided an initial improvement in knowledge, but no significant improvement in triage.
- Shimma M et.al. found jump from 0% to 64.40 % in knowledge of triage after implementing triage training⁴, whereas our study has shown jump to 85%.
- CPR training by tele-education was not inferior to conventional classroom training.
- Keri et al. is also having similar finding that telemedicine at individual centers are beneficial and scalable to country level.

CONCLUSION

Tele-Training- program facilitated to improve the triage knowledge and implement triage system to improve the quality of emergency patient.