

Emergency Care Delivery – In Pakistan

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Every minute....

120 people die due to emergency diseases globally(80 in low and low-middle income countries)



The wider picture.

Population of Pakistan. over 200 million.

Registered doctors... 184711

Per 10,000 population... 9.7 doctors.
 Australia has 35 per 10K
 China has 17 per 10K
 Cuba has 81 per 10K





How many emergency doctors?





Karachi on Emergency Care



Karachi is the 3rd largest city and economic hub. Population approx. 24 million Wide socio-economic gap within Karachi's population; most people living in slums Regular outbreaks e.g. Infectious Disease, gun violence, violent strikes

Lack of efficient transport system leads to higher road usage and accidents



Indus Health Network



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• Unique initiative in Pakistan

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• Provides quality, free-of-cost healthcare for all

The Indus Hospital (TIH), Korangi Campus - Karachi







ED Patient Volumes



ED data from August to October 2019

Category	No. of Patients
Triaged in Adult ED	39,551 (439)
Triaged in Pediatric ED	19,389 (215)
Estimated Triaged Per Day	654
Directly Referred to Filter Clinic (Adult)	3,492
Directly Referred to Filter Clinic (Pediatric)	1,650
Reviewed in Adult ED	32,578 (361)
Reviewed in Pediatric ED	15,377 (171)
Estimated Reviewed in ED Per Day	532

ED Patient Volumes



Patient Count as per Categorization from August to October 2019

Category	Adult	Pediatrics
P1	1,352 (15)	450 (5)
P2	9,122 (101)	6,406 (71)
P3	17,169 (190)	7,159 (80)
P4	4,935 (55)	1,362 (15)



Training and Capacity-building



Residency Program





5-year Residency Program initiated in 2018



Nationally accredited by College of Physicians & Surgeons Pakistan (CPSP)



Curriculum design based on international and CPSP standards



Divided into Intermediate (2 years) and Advanced (3 years) modules



7 competencies: Medical Expert, Communicator, Collaborator, Professional, Scholar, Healthcare, Advocate, Leader



To-date 12 residents enrolled









CPEM comprises of two cohorts:

- Didactics-only course (CPEM-D) for medical officers from Karachi's hospitals
- Clinical course (CPEM-C) for medical officers from
 The Indus Hospital

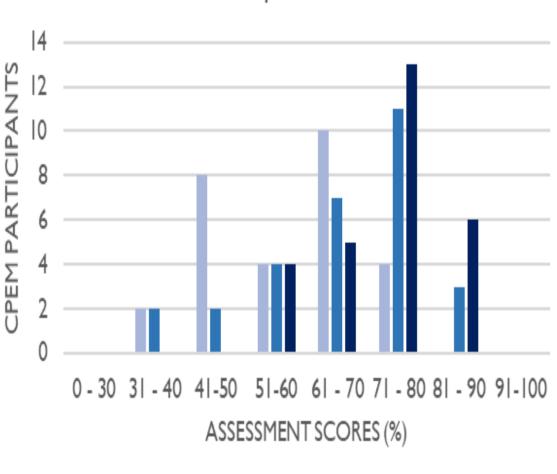
-In July 2019, 27 trainees (out of 32 originally enrolled) successfully graduated the program.

-For CPEM's second training cycle, 29 participants from 8 different hospitals have been enrolled





Distribution of Participant Assessment Scores



No. of Participants (Pre-Test)
 No. of Participants (Final)

■ No. of Participants (Mid-term)

INDUS

HEALTH





Collaborative Advanced Trauma Care (CATC) Course









Emergency Department Overcrowding

HEALTH





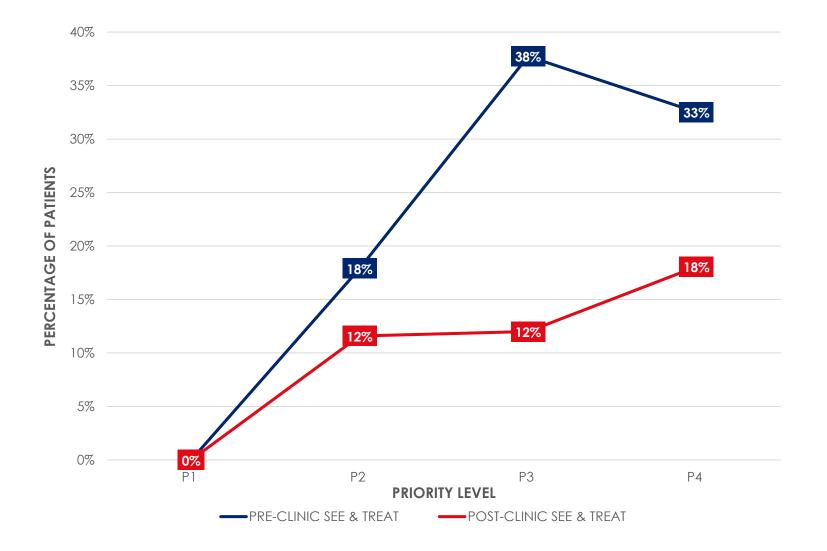


See-and-Treat Clinic





Comparison of Pre- and Post-Clinic Patient Volumes







Upcoming Projects

- CME workshops:
 - Ultrasound
 - Airway
 - Trauma
 - Procedural sedation
 - Ethical issues in the ED
- Antibiotic Stewardship project
- Formulation of an in-hospital Chest
 Pain Pathway



Research Projects



- Heat wave audit- Risk factors for deaths in the June 2015 Heatwave in Karachi
- HEAT (Heat Emergency Awareness and Treatment) inter-hospital collaborative project
- Pan-Asian Resuscitation on Out-of-Hospital Cardiac Arrest inter-hospital collaborative project
- One-year In-Hospital Trauma Audit in collaboration with Emory University
- 5-year TIH ED Mortality Audit
- 5-year Audit of Out-of-hospital Cardiac Arrest Outcomes
- Low-cost Phantom Models for Ultrasound-guided Procedures
- KAP Survey on Trauma Team Approach
- Social Emergency Medicine: A Pakistan Perspective



Thank you!