



**HEALTH DEPARTMENT
GOVERNMENT OF SINDH**



SINDH
INTEGRATED EMERGENCY
& HEALTH SERVICES

ANNUAL HIGHLIGHTS

2023

Department of Research, Development
& Education



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EMT Induction Trainings

The Department of Research, Development & Education (DRDE) conducted 15 batches of induction training, through which it trained over 395 candidates across Sindh in 15 batches.

Total Batches	Total Candidates
15	395

Ventilator Training in all Zones

DRDE dedicated trainers to conduct training sessions on the O-Two e700 ventilator for the staff in response to an audit finding. These sessions covered Zones I, II, and III, with trainers visiting different stations to facilitate training. The goal was to ensure that staff members became proficient in operating the O-Two e700 ventilator, thereby enhancing patient care and safety. A dedicated schedule was followed, during which DRDE trained over 204 candidates across 20 batches.

Total Batches	Total Candidates
20	204

Tele-Physician Trainings

One newly hired medical officer underwent training for clinical protocols and virtual clinical assistance to the ambulance crew. This training equips them with knowledge of basic ambulance emergencies and how to address them. It ensures that our EMS system is better prepared to handle day-to-day emergencies and any disasters that may arise. DRDE trained 9 candidates across 5 batches.

Total Batches	Total Candidates
5	9

Collapsed in Ambulance Cases

DRDE conducted thorough investigations into sixty-two cases of patients collapsing in ambulances. This comprehensive activity involved detailed case reviews for all patients who experienced collapse while on our ambulance stretchers. DRDE compiles a comprehensive report after analyzing tracker reports, preparedness, patient handling, and care. Subsequently, we assign each CIA an average weighted score.

Total CIA Cases	62
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Teaching Assistant Session

DRDE, with the assistance of teaching assistants, conducts weekly sessions at various stations where EMTs are provided training on different topics related to emergencies, as part of continued medical education.

Total Sessions	Total Candidates
365	2,740

Enhancement of DRDE Media Collection & SIEHS Brand Identity

DRDE has undertaken a comprehensive two-day initiative. During this endeavor, we engaged the services of a dedicated freelance photographer who voluntarily contributed her expertise.

Our primary objective was to enhance the quality and authenticity of our lecture slides utilized in different Training programs. Additionally, we incorporated video recordings, scripted for each scenario, covering both adult and child cases.

This concerted effort not only breathes life into our lecture materials but also aligns them seamlessly with the distinguished branding of our esteemed organization.

Ambulance Guide Book

A comprehensive exercise was undertaken to create an ambulance guidebook specially focused on emergencies. This guidebook will encompass almost all pre-hospital medical, surgical, and traumatic emergencies. Serving as a quick reference for revising basic knowledge, this publication will be invaluable for ambulance crews in effectively managing diverse emergency situations. This book will be published for wider distribution and accessibility in every ambulance and station.

Change of Departmental scope

The Clinical Training Department (CTD) underwent a transformation, evolving into the Department of Research, Development & Education (DRDE). With this transition, our department's scope was expanded, prompting DRDE to explore various avenues to enhance capacity and capability.



FEAMER Project

DRDE is playing a pivotal role in the FEAMER (Feasibility and Efficacy of Ambulance-Based m-Health for Pediatric Emergencies) Trial, ensuring that ambulance staff are adequately trained and equipped to provide the best possible care to pediatric patients while involved in the research trial. As the project advances, the collaboration of SIEHS is highly valued and appreciated by all partner institutions which include Weill Cornell Medicine in New York, Aga Khan University in Karachi, Pakistan, Johns Hopkins University in Baltimore and Child Life Foundation, Pakistan.

BLS and First Aid Training at Lyari General Hospital

Basic Life Support (BLS) and first aid training sessions were held for nursing students at Lyari Male College of Nursing on the 16th and 23rd of October 2023 to a group of 62 candidates.

Total Sessions	Total Candidates
2	62

PAF Base Masroor Basic Skills Training

At PAF Base Masroor, a group of aspiring nurses underwent a comprehensive three-day training program from the 17th to the 19th of November 2023, equipping them with essential skills in the medical field. Throughout these sessions, our trainers actively engaged with the 66 candidates, providing them with vital knowledge and hands-on experience. The training event was graced by the distinguished presence of Base Commander, Air Commodore Muhammad Asim Rana, and Wing Commander, Dr. Khalid Rafi.

Total Sessions	Total Candidates
1	66

Direct Observational Training (DOT)

The department successfully initiated the DOT (Direct Observational Training) program from September 2023, inspired by WHO's DOTS therapy

which is highly successful in the treatment of Tuberculosis. This initiative involved the observation of ambulance operations at different stations and corrections to be made on site.

Continuous Medical Education Sessions

Several internal capacity building sessions are conducted throughout the month, aligning with our key performance indicators (KPIs) for continuous improvement. We have organized and conducted a total of 10 sessions to enhance our internal capabilities further.

Clinical Simulator Education Program, AKU

Dr. Kamran Idris and Dr. Shaheryar Hasan, both part of our RD&E team, joined forces with Fida Muhammad from the Biomedical team to attend a 5-day workshop at CIME, AKU, focusing on the Clinical Simulators Educators Program. This intensive, in-person program, spanning five days, was designed to enhance their teaching techniques by incorporating clinical simulation effectively.

Virtual Session with International EMS Expert

Virtual session moderated by RDE Team Member, Dr Laraib to discuss Mental health issues that arises in EMS worldwide. ER24 CEO Ben Johnson along with CMO Robyn Holgate combining there 20+ years of experience in the field of EMS provided some helpful insights into mental health solutions. ER24 operate from 59 bases throughout South Africa and provide quality emergency response and pre-hospital care services.

Future collaboration was also a point under discussion and both parties agreed to have such sessions.

Turn Over of DRDE Team

In January 2023, DRDE began with a team of 7 members. By July 2023, the department expanded to 10 members. However, by the year's end in December 2023, DRDE had a total of 8 members across all zones in Sindh.



Visit to Hunar Foundation- A meeting to explore possibilities of collaboration

The visit was done by Dr. Kamran Idris & Dr. Tehmina Warsi on 16th November'2023. During the visit, they met Dr. Para Butt - Consultant Health Care Programs, with whom we explored the possibilities to utilize their training spaces, formulate improvised EMT program to be approved by STB, and provide trainings to their students enrolled in medical and allied health programs.

First Aid & BLS Training session in Iqra University North Campus

DRDE conducted a BLS & First Aid session for the students of Iqra University on the 21st of November 2023. Dr. Tehmina Warsi, Dr. Arshia Khan, and M. Zareef Khan provided insightful training and engaging hands-on experience to the students of the DPT program. The attendees, including teachers and the Director of Academics, Dr. Syed Ali Raza, expressed their gratitude towards the department and organization.

Total Sessions	Total Candidates
1	24

BLS Refresher Sessions for EMT's

DRDE conducted BLS refresher sessions that spanned over 6 days with 6 sessions overall. BLS expires after 2 years so in this regard on field staff, who has spent more than 2 years needed a refresher session. DRDE instructors Dr Shaheryar, Dr Aswad, Dr Tehmina, Dr Arshia and Zareef Khan all took part in these trainings. DRDE trained 156 staff in total to enhance their capabilities to deal with scenarios. Hands-on training was provided with our new feedback/monitor based manikins.

Total Sessions	Total Candidates
6	156

Participation in Recruitment Drive

DRDE team members actively participated in various recruitment drives within the organization,

especially in the induction drive of Emergency Medical Technicians. Throughout the year, we participated in more than 60 recruitment drives all across the Sindh.

Station Management Training

DRDE collaborated with Operations, Human Resource, and Quality Assurance departments to conduct a comprehensive three-day training program for station coordinators from Hyderabad and Sukkur regions. The training covered organizational policies, standard operating procedures, HR procedures, quality assurance, and compliance measures. Participants gained valuable insights to enhance their ability to manage emergency field staff effectively and ensure patient safety in pre-hospital settings.

Risk Management Session by Jeffrey Dell of International SOS

Mr. Jeffrey Dell, he works for the International SOS, an organization that is a pioneer in International Health and Security Risk Management. Mr. Jeffrey Dell is currently the Crisis Management Practice Lead at International SOS (San Francisco). Risk Management Practice Lead at International SOS, San Francisco, California), attended by the Department of Research Development and Education, Tele-Tabeeb Department and Evaluation and Monitoring Department. Methods and tips to mitigate risks in an organization were discussed along-with communication tactics to avoid risks.

Exploration & Follow-up of External Clients for First Aid Courses

The department is proactively engaging with corporate partners and clients to explore external training programs such as BLS, First Aid, and Advanced First Aid, as part of its workplace safety promotion initiative. We have approached more than 300 individuals at organizational level.



Presentation at AIPH-JSMU today on SIEHS impact and potential collaboration with AIPH

SIEHS and AIPH-JSMU recognized the potential for mutual collaboration and partnership to enhance their respective missions and objectives and the Parties intend to engage in a cooperative effort to achieve shared goals and maximize their combined resources for the betterment of healthcare services and capacity building in Sindh, Pakistan.

BLS and Basic First Aid Training at Shell Pakistan Limited

The primary objective of the training was to equip participants with the essential knowledge and skills in Basic Life Support and Basic First Aid, enabling them to fulfill certification requirements. The participants, comprising four employees, provided positive feedback on the training. Areas for improvement in the training content were identified. Individual trainer reviews were all positive, with a 100 percent satisfaction rate.

Publishing Public Health Documents

We regularly publish public health documents with the aim of providing educational insights into the current public health issues and the prevailing situation in Pakistan. These documents, written in language accessible to the layman, serve to offer an overview and understanding of the state of public health in the country.

Total Documents	18
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BLS Training for EVO

DRDE initiated BLS sessions for EVOs in June 2023. Over 32 batches, a total of 607 EVOs across all zones in Sindh, at all three regional offices, were trained for CPR. The sessions received overall positive feedback, with participants appreciating the hands-on training. This endeavor aims to enhance the capacity of SIEHS in providing Basic Life Support to the general public.

Total Sessions	Total Candidates
32	607





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