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Basic Emergency Care: A Model for Nationwide Rollout Utilizing Regional Teams

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INTRODUCTION

The World Health Organization's Basic Emergency Care (BEC) toolkit was developed to provide essential knowledge and skills in emergency care for nonspecialty trained providers. Belize was the first country to launch BEC in the Western Hemisphere through a regional training of trainers (ToT) model.

RESULTS

The initial ToT produced 34 facilitators: 16 physicians and 18 nurses. The facilitators taught 15 BEC courses. Nearly half of the country's emergency healthcare providers (45%, n=306) were trained in 11 months. Despite an over two-year pause due to covid, over half (58%) of facilitators were interested or active in BEC training in 2022.

AIM

This study aims to assess the efficacy of the regional ToT model for BEC rollout.





Occupation 35% Nurse/Midwife Physician

Experience



■ 5-10 Yrs ■ >10 Yrs

Average Number of Critically-III

Comfort with Critically-III Patients

Central Pop 95K Western Pop 75K Southern *Pop 65K* *Most recent data from 2010

Timeline

- Initial ToT March 2019: created 4 regional BEC facilitator teams
- April 2019-February 2020: 15 courses taught bimonthly by regional teams

Data Collection

Participant Demographics

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- Confidence with critically-ill patients
- Pre- and post-course knowledge



Training Team	Participants (N)	Pre-Test Mean (%)	Post-Test Mean (%)	Difference	95% Confidence Interval	P Value
ToT	34	79	94	15	11-18	<0.0001
Northern	55	70	88	18	15-21	<0.0001
Central	113	69	90	21	18-23	< 0.0001
Western	19	72	93	22	16-27	< 0.0001
Southern	31	68	92	23	20-27	< 0.0001
All Regionally- Led Trainings	218	70	90	20	18-22	<0.0001

Data Analysis

- Descriptive statistics utilized for demographic and confidence data
- Wilcoxon Signed-Rank test utilized for pre- and post-course knowledge

CONCLUSIONS

The **regional ToT model** allowed for a **rapid, effective**, and **sustainable** method to **institute the BEC** nationally. As courses resume, long-term knowledge retention and the clinical impact of BEC on emergency care will be assessed.

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