

GOVERNMENT OF BELIZE NRSMP 2030

MINISTRY OF HEALTH

OPERATIONAL PLAN 2016-2021

3.3 ROAD SAFETY DATA MANAGEMENT AND ANALYSIS (INTELLIGENCE)

Improvement Area		
Short-term – (2016-2020)		
	Timeline	Coordinating agency
RSD3 Confirm mechanisms for sharing data are operating efficiently with management agencies and research organizations	2016	NRSC with support from MOH/DOT/Police/SIB
RSD5 All agencies should support and use the database to ensure that the most effective countermeasures are developed	2018	NRSC with support from Police/MOW/DOT/MOH/SIB

3.4 SOCIAL COSTS OF COLLISIONS

Improvement Area		
Short-term – (2016-2017)		
	Timeline	Coordinating agency
SCC1 Review and update 2010 report on social costs of road collisions	2016/2018	NRSC/MOH

3.11 HR DEVELOPMENT

Improvement Area		
Short term – (2016-2020)		
	Timeline	Coordinating agency
HR6 Provide training for medical staff and enforcement officers in traffic collision emergency/trauma management	2017 onwards	MOH
HR7 EMT refresher courses	2018 onwards	MOH

6.7 POST-CRASH RESPONSE

Improvement Area		
Short-term – (2016-2020)		
	Timeline	Coordinating agency

Improvement Area		
PCR 1 System design for Basic Life Support	2016	MoH
PCR 2 Staff Clinical Competency for Emergency Medical Technician (EMT) - Pending EMT training of the two cohorts that completed the BLS/ALS will be funded by the project	2016	MoH & BERT
PCR 3 Develop paper based Patient Report Form	2016	MoH
PCR 4 Following assessment of initial procurement of 2 ambulances consider procurement of Emergency Ambulances for other corridors	2017(move to 2021 - 2025)	MoH
PCR 5 Introduction of basic radio voice communications/ cell phone link emergency system	2017	MoH
PCR 6 Confirm standardized clinical interventions, such as Airway management, Haemorrhage control	2016	MoH
PCR 7 Response standards to scene of the incident in 8 minutes 60% of the time.	2016	MoH & BERT
PCR 8 Incident response time to ER in 60 minutes 70% of the time	2016	MoH & BERT
PCR 9 Community support through <i>volunteers</i>	2017	MoH
PCR 10 Control/Dispatch Centre in Multiple centres	2017	MoH

MONITORING AND EVALUATION CHART ATTACHED

ROAD SAFETY MASTERPLAN 2030
MONITORING AND EVALUATION FRAMEWORK

MINISTRY OF HEALTH

PILLAR	Indicator	Output	Outcome	Baseline 2015	Progressive targets			Supporting sector
					2016-2020	2021-2025	2026-2030	
SCC1 Review and update 2010 report on social costs of road collisions	2010 report on social costs of crashes completed	2010 report on social costs of collisions has been updated.	Social costs of collisions are used in undertaking benefit/cost analysis and identifying financial savings from reduced collisions.	Report not yet updated	2016-2018			Data TWG, SIB, PAHO, NRSC, Police
HR6 Provide training for medical staff and police in emergency trauma management	Courses have been developed aimed at a variety of levels	Medical staff and Police attend courses	Medical staff and Police have been trained and the new knowledge is observed by better outcomes for casualties from traffic collisions	Training in emergency trauma management limited	2016-2018 Courses developed	30%	75%	BERT
POST-CRASH RESPONSE	Availability of effective handling of emergency situations				30%	75%	100%	
PCR1 Provide system design for Basic Life Support	Basic Life Support System designed	Basic Life Support System has been developed. Training has been delivered.	Severity of injuries from road crashes has been reduced due to better trained, knowledgeable and timely attendance of qualified people.	Basic Life support system available	2016			BERT
PCR11 Provide system design for Advanced Life Support	Advanced Life Support System designed	Advanced Life Support System has been developed.	The effects of serious injuries reduced due to better trained personnel	Advanced life support system available		2022		BERT

PCR 2 Develop staff Clinical Competency for Emergency Medical Technician (EMT)	Clinical Competency for EMT developed	More EMT fully trained	Increase of lives saved due to serious injuries from Road traffic crashes	Limited number of trained EMT available	2016-2017			BERT
PCR 12 Develop staff Clinical Competency for Paramedic	Clinical Competency for Paramedic developed	Training for Paramedics delivered	Increase of lives saved due to serious injuries from Road traffic crashes	Locally trained Paramedics not available		2022		BERT
PCR 21 Develop staff Clinical Competency for Critical Care Practitioner	Clinical Competency for Critical Care Practitioner developed	Training for Critical Care Practitioners delivered	Increase of lives saved due to serious injuries from Road traffic crashes	Limited number of Critical Care Practitioners in country			2028	BERT
PCR 3 Develop paper based Patient Report Form	Paper based Patient Report Form developed	Forms needed are designed	Patient Report is properly documented	Paper based Patient Report form is in use for inpatients.	2016			
PCR 13 Develop Electronic Patient Report Form	Electronic Patient Report Form developed	Electronic Patient Report Form system is designed	Improved Patient reporting	Electronic Patient Reporting Form is implemented nationwide. Belize Health Information System (BHIS)			2023	
PCR 4 Following assessment of initial procurement of 2 ambulances consider procurement of Emergency Ambulances for other corridors	Procurement of Emergency Ambulance for other corridors	Model and content within the Ambulances established Procurement for further ambulances prepared	Additional ambulances with qualified attendants will reduce the response time for Road Traffic crashes	Emergency Ambulances for attending RTAs are available on demonstration corridor only		2018-2019		
PCR 5 Introduction of basic radio voice communications/ cell phone link emergency system	Basic radio voice communications have been introduced	Basic radio voice communications have been identified and tested	Basic radio voice communications in use to link ambulance crew with the next medical centre, e.g. hospital/ Cell phone plan on all ambulances-connected to all	Basic radio voice communication and cell phone plan not available	2017			

			Emergency Rooms in the country.					
PCR15 Introduction of Automatic vehicle location, digital communications	Automatic vehicle location, digital communication has been introduced	Automatic vehicle location digital communication equipment identified and tested	Automatic vehicle location digital communication implemented	This is not available		2023		
PCR 24 Introduction of Highly integrated communication systems	Highly integrated communication system has been introduced	Design and specifications for highly integrated communication system developed	Improved communication in use to link ambulance crew with the next medical centre, e.g. hospital	Communication is within departments and does not include the municipalities			2030	
PCR 6 Confirm standardized clinical interventions, such as Airway management, Haemorrhage control	Clinical interventions have been confirmed	Develop standards for clinical interventions such as Airway management, Haemorrhage control	Early intervention will assist in better outcomes for patients	Clinical interventions are NOT standardized.	2017			BERT
PCR16 Confirm standardized clinical interventions, such as intubation, infusion inter osseous injection	Clinical interventions have been confirmed	Develop standards for clinical interventions such as intubation, infusion inter osseous injection	Early intervention will assist in better outcomes for patients	Clinical interventions are NOT standardized.		2024		BERT
PCR 25 Confirm standardized clinical interventions, such as Rapid Sequence Induction, enhanced pain relief	Clinical interventions have been confirmed	Develop standards for clinical interventions established such as Rapid Sequence Induction, enhanced pain relief	Early intervention will assist in better outcomes for patients	Clinical interventions are NOT standardized.			2030	BERT
PCR 7,17 &26 Response standards to scene of the incident in 8 minutes	Response standards to incident in 8 mins	Response standards for attendance to the scene of an incident have been improved	Severity of injuries from road crashes has been reduced due to timely attendance of qualified people	Response time to the scene of an incident is very long at times	60%	80%	95%	BERT

PCR 8,18 &27 Incident response time to ER in 60 minutes	Incident response to ER in 60 mins	Response standards in time from collision site to ER have been improved	Severity of injuries from road crashes has been reduced due to timely transfer from collision site to ER	Time from the scene to ER is very long at times	70%	90%	100%	BERT
PCR 9 Community support through volunteers	Volunteers have provided community support	Advertise, retain and train volunteers	Increased support from the public More people carrying first-aid kits in their vehicles	Volunteer support is minimal	2017			BERT/ Red Cross
PCR 19 Community support through First Responders	First responders have provided community support	First Responders are identified and training is provided	Increased number of injured cases stabilized at the scene of the incident	First responder training is limited		2025		BERT
PCR 10 Control/Dispatch Centre in multiple centres	There are Control/Dispatch Centre in multiple centres	Control dispatch centres are designed, approved and built	Reduce response time to road traffic crashes	Control/ Dispatch centres not available countrywide		2018		
PCR 14 Procurement of Mobile Intensive Care Unit	Mobile Intensive Care Unit has been procured	Specifications for intensive mobile Care Unit determined	Increased number of injured cases stabilized at the scene of the incident	Mobile Intensive Care Unit is not available		2023		
PCR 20 Establish dedicated single EMS Control Centre	Dedicated single EMS Control centre has been established	EMS centre designed and built	Reduce response time to road traffic crashes	EMS control centre not established		2025		
PCR 22 Develop Clinical Data (ECG) transmission	Clinical Data (ECG) transmission has been developed	Clinical data transmission system designed and developed	Clinical data on a patient is readily available and medical centres can be alerted ahead of time of the condition of the patient	Clinical data transmission available within the government institutions			2030	
PCR 23 Procurement for Helicopter Emergency Medical Service	Helicopter Emergency Medical Service has been procured	Personnel are identified and trained to be helicopter pilots	Reduce response time to road traffic crashes	The BDF helicopter is used when necessary			2030	

PCR 28 Establish Integrated EMS & Health Control Centre	Integrated EMS & Health Control Centre has been established	Design and specifications for the system determined	Patient's medical information readily available to appropriate authorities	Current system is not integrated			2030	
Emergency Health Maintenance System	Quarterly preventative maintenance report.	List of all equipment and status on quarterly basis.	Health system properly maintained	Report not yet updated	2018	100%	100%	Regional Hospitals