Ministry of Health Barbados

National Action Plan for the Prevention and Control of Non-communicable Diseases (NCDs)

2015-2019

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List of acronyms

BAMC Barbados Agricultural Management Company, Ltd
BAMP Barbados Association of Medical Practitioners

BDS Barbados Drug Service

BNR Barbados National Registry for Chronic Non-communicable Disease

BNSI Barbados National Standards Institute

CARPHA Caribbean Public Health Agency
CDRC Chronic Disease Research Centre

CVD Cardiovascular disease CARICOM Caribbean Community

CME Continuing medical education

CROSQ CARICOM Regional Organisation for Standards and Quality

FBO Faith-based organisation

FCTC Framework Convention on Tobacco Control

FP Focal point

FMS Faculty of Medical Sciences

FTE Full-time equivalent

GIS Government Information Service
GSHS Global School Health Survey

H&SFB Heart & Stroke Foundation of Barbados

HBV Hepatitis B vaccine

HIS Health Information System

HotN Health of the Nation
HPU Health Promotion Unit

MAFFW Ministry of Agriculture, Food, Fisheries & Water Resource Management

M&E Monitoring and evaluation

METI Ministry of Education, Science, Technology & innovation

MFE Ministry of Finance and Economic Affairs

MH Ministry of Health

MPH Master of Public Health
NCD Non-communicable disease
NNC National Nutrition Centre

NNCDC National NCD Commission, Barbados

NTFPA&E National Task Force on Physical Activity & Exercise

PAHO Pan American Health Organization

POS Port of Spain

QEH Queen Elizabeth Hospital
SOP Standard operating procedure
SSB Sugar-sweetened beverage

TCDPO Town & Country Development Planning Office

UWI The University of the West Indies

WHO World Health Organization

WWP Workplace wellness programme

Executive summary

Barbados has the lowest age-adjusted death rate from non-communicable diseases (NCDs) in the Caribbean Community (CARICOM). Despite this, however, mortality from the main CVDs affecting the island's population and prevalence of risk factors for most NCDs is high, particularly in those aged < 60 years. The Barbados Ministry of Health (MH) is aware that NCD control cannot be the responsibility of the MH alone, and is therefore refocusing healthcare service delivery towards a model of chronic care for the population, with a strong emphasis on a coordinated response through partnerships with other sectors of the government, civil society and the private sector.

The NCD response covers four main areas: (1) strengthening strategic management; (2) surveillance and research; (3) integrated disease management and patient education; and (4) risk factor reduction. The target is to reduce premature mortality from NCDs by 25% by 2025 as well as to diminish the avoidable, costly morbidity from NCDs. This Action Plan, like the Strategic Plan, stems from the priority of the Barbados MH to develop a patient-centred, equitable, efficient, accessible, high-quality health care system. The MH's NCD response is led by the NNCDC through a combined and collaborative approach to the guiding principles, encompassing "all-of-government, all-of-society".

This NCD Action Plan outlines the activities required annually for the MH and its partners to take to effectively tackle NCDs in Barbados during 2015–2019. The activities have been translated from the Barbados Strategic Plan for the Prevention and Control of Non-Communicable Diseases 2015–2019, prepared by the National NCD Commission (NNCDC) and the MH. Activities are outlined in tabular format, for each strategic line of action by year. The Appendix provides a brief outline of each year's activities required by all four strategic plans. In this way the Action Plan provides the "road-map" to operationalising the Strategic Plan, including a checklist of performance indicators for measuring whether the activity has been achieved.

Development of the action plan

Introduction and rationale

Although the age-adjusted death rate from non-communicable diseases (NCDs) in Barbados, at 363 per 100,000 per year, is the lowest in the Caribbean Community (CARICOM), it is still 37% higher than that of Canada. In addition, in Barbados about 20% of these deaths occur prematurely² (i.e. in persons under the age of 60 years). The Ministry of Health (MH) spearheaded a national, population-based registry for surveillance of the three NCDs causing most of the mortality in Barbados (stroke, heart attack and cancer). Latest data from the cardiovascular disease (CVD) components of this registry show that although heart attack incidence and death rates have been stable between 2009 and 2013, the mortality was about three times higher than that for a similar population in the US. Further, stroke mortality in 2015 was significantly higher than it was in 2009.3 The most up-to-date national data on the prevalence of NCD risk factors in adults aged at least 25 years are from a recent national, crosssectional survey commissioned by the MH (the "Health of the Nation" Survey, HotN). Although the population in Barbados has low prevalence of daily tobacco smoking (11% in men; 5% in women), results show high rates, particularly in women, of diabetes (16% men; 21% women), hypertension (19% men; 33% women) and obesity (23% men; 43% women) across all agegroups. Almost everyone surveyed (92% men; 89% women) consumed fewer than five daily portions of fruit and vegetables, while 30% of men and 67% of women were physically inactive.4

The high mortality from the main CVDs affecting Barbados and the high prevalence of risk factors for most NCDs in the population underscore the priority given to their prevention and control by the MH. This NCD epidemic is fueled not just by personal factors like health literacy, gender, education, employment, or individual income, but also is affected more broadly by factors like globalization, international trade and economic development, which have a high impact on a small-island state such as Barbados. In addition, the transportation, food and work environments are not all currently conducive to NCD prevention and control. Combatting NCDs cannot therefore be the responsibility of the MH alone: an "all-of-government, all-of-society"

approach is required to effectively diminish the grip NCDs have on the nation. A health ministry may provide health education and promotion for a population, in which smoking cessation, consumption of a healthy diet and increased physical activity are advocated. But the MH must work together with other governmental sectors and civil society to enable and support healthy behaviours in the population, by ensuring there are healthy options available at reasonable prices, accessible, safe and green spaces for individuals to exercise, and laws in place to ensure a clean and safe environment, free of excessive pollution and tobacco smoke. In addition, the MH will strive towards refocusing healthcare service delivery towards a model of chronic care for the population, with a strong emphasis on a coordinated response through partnerships with other sectors of the government, civil society and the private sector.

This NCD Action Plan outlines the steps required annually for the MH and its partners to take, supported by the Pan American Health Organization/World Health Organization (PAHO/WHO), over the 5 years from 2015 to 2019, in order to effectively tackle NCDs in Barbados. These steps have been translated from the Barbados Strategic Plan for the Prevention and Control of Non-Communicable Diseases 2015–2019, prepared by the National NCD Commission (NNCDC) and the MH.⁵

Scope

The Strategic Plan for NCDs in Barbados outlined an NCD response covering four main areas: (1) strengthening strategic management; (2) surveillance and research; (3) integrated disease management and patient education; and (4) risk factor reduction. The Strategic Plan describes a target of reducing premature mortality from NCDs by 25% by 2025 as well as reducing avoidable, costly morbidity from NCDs. The seven key priorities listed in the Strategic Plan for controlling NCDs at the national level are:

- 1. Control raised blood pressure to target
- 2. Reduce physical inactivity
- 3. Reduce salt intake
- 4. Reverse the upward trend in obesity
- 5. Stop the increase in incidence of diabetes
- 6. Reduce harmful use of alcohol
- 7. Promote abstinence from all forms of tobacco

This Action Plan therefore focuses on the above seven priorities under the four main NCD response areas.

Relationship to existing strategies and declarations

The Barbados Action Plan was born out of the Barbados Strategic Plan, which itself was grounded in the principles articulated in the Caribbean Charter for Health Promotion and aligned with the overall strategic direction of the MH. The Strategic Plan was derived from several key national, regional and international declarations for NCD prevention and control (e.g. the Declaration of Port of Spain, 2007; the Political Declaration of the United Nations High Level Meeting on NCDs, 2011). Together these declarations and frameworks highlighted the links between the main NCD risk factors and various individual (gender, socioeconomic, behavioural) and country-specific (political, environmental) determinants. They have also called for an integrated and multi-sectoral approach to NCD control, utilizing surveillance and promoting equitable access to adequate and cost-effective prevention and treatment through integrated NCD management.

Guiding principles

This Action Plan, like the Strategic Plan, stems from the priority of the Barbados MH to develop a patient-centred, equitable, efficient, accessible, high-quality health care system. The MH's NCD response is supported and led by the NNCDC by these guiding principles through a combined and collaborative approach, encompassing "all-of-government, all-of-society", which includes private, public and civil society sectors.

Plan of action 2015-2019

Goal

The goal of this Plan of Action is to enable the Barbados Ministry of Health (MH) to reach its targets of reducing premature mortality from NCDs by 25% by 2025 and reducing the avoidable, costly morbidity from NCDs. This will be done by providing a framework of active steps to be taken by the MH and its partners during 2015–2019 to fully operationalise the Strategic Plan.

Strategic lines of action

There are four strategic lines of action, which are listed with their objectives below.

Strategic lines of action	Objectives
1: Strengthening strategic management	To facilitate and implement an effective and efficient "all-of-society" and "all-of-Government" national response to NCDs and their risk factors, inclusive of adequate financial and human resources
2: NCD surveillance and research	To continue strengthening Barbados' capacity for high quality surveillance of (data management, analysis and reporting) and relevant research on chronic diseases, their risk factors, social determinants and consequences to enhance the capacity for monitoring and evaluation of the impact of public health interventions
3: Integrated disease management	To facilitate and support strengthening the capacity and competencies of the health system for the integrated management of chronic diseases
4: Risk factor reduction	To develop and implement public policies and programmes, supported by adequate resources and a comprehensive communication strategy and programme, to facilitate risk factor reduction interventions

Each Strategic line of action is presented on the following pages in tabular format, listing numbered activities per year, performance indicators, partners and cost. Where activities are repeated in subsequent years, the original number of that activity is indicated in parentheses, but it is also counted as a separate activity.

Strategic line of action 1: Strengthening strategic management

Objective: To facilitate and implement an effective and efficient "all of society" and "all of Government" national response to NCDs and their risk factors, inclusive of adequate financial and human resources.

Year		Activities	Performance Indicators	Partners	Cost	Comments and assumptions
2015	1.	Lobby government for passing of new notifiable diseases act including CVDs	CVD added to notifiable diseases list; new act passed by end 2017	MH, UWI, Attorney General's Office		1 Barbados Drug Service (BDS) lecture; 2 Town Hall meetings
	2.	Preparation of Annual Report for the NNCDC	Dissemination of the report	MH, NNCDC		Prepared by Deputy Chair and electronically distributed
	3.	Review seminar on evaluation of POS NCD Summit Declaration in 2013 and 2014	Review report produced	MH, UWI, NNCDC		
	4.	Complete evaluation of financial expenditures for NCD prevention and control	Report completed by mid-2016	UWI CDRC, MH, UN Task Force team		Input from Planning Unit
2016	5.	(1) from 2015	CVD added to notifiable diseases list; new act passed by end 2017	MH, UWI, Attorney General's Office		1 BDS lecture; 2 Town Hall meetings
	6.	Biannual high level meeting among senior management of MH and NNCDC	Monthly multi-sectoral National NCD Commission Meeting minutes available within 30 days of meeting, and Action Points distributed within a week of the meeting	MH, NNCDC	-	Half-day meeting
	7.	Establish biannual forum for Medical Officers of Health to meet with NNCDC	First forum conducted by end 2016	MH, NNCDC	-	Half-day meeting
	8.	Identify mechanisms to strengthen MH/NGO stakeholder engagement	Policy to guide relationship with health NGOs and the MH published and implemented by end of 2016	MH, NNCDC	-	No post for NGO desk exists – to be done by HPU and Planning Unit

Action 1: Strengthening strategic management

Year	Activities	Performance Indicators	Partners	Cost	Comments and assumptions
2016 cont'd	9. Hire consultant for evaluation of Strategic NCD Plan 2009–2012	Draft by end of 2016, with final valuation report completed by mid-2017	MH, NNCDC	\$10,000	
	10. Complete NCD health manpower needs projections	Completion of working document by end of 2016	MH, NNCDC	-	In progress by Planning Unit
2017	11. (1) from 2015	CVD added to notifiable diseases list; new act passed by end 2017	MH, UWI, Attorney General's Office		1 BDS lecture; 2 Town Hall meetings
	12 .(6) from 2016	Reports from two meetings per year	MH, NNCDC	-	Half-day meeting
	13. (7) from 2016	Reports from two fora per year	MH, NNCDC	-	Half-day meeting
	14. Hire consultant to evaluate performance of NGOs vs subventions, including Heart and Stroke Foundation (HSFB) and Diabetes Foundation	Evaluation of either HSFB or BDF completed by end of 2017	MH, NNCDC, H&SFB or BDF	\$10,000	
	15. NNCDC to conduct seminar/meeting/consultation with strategic partners (especially NGOs) to discuss NCD prevention and control measures	Documentation of effective approaches to more fully engage "all-of-Government" and "all-of-society"; e.g. interministerial committee, NNCDC	MH, NNCDC	\$5000	Half-day seminar with refreshments
	16. Hire staff member to strengthen SMOH NCD Office to liaise with polyclinics for obtaining data in order to prepare regular NCD reports	Monthly reports of NCD patients seen in polyclinics prepared by SMOH NCD Office	MH, NNCDC		One person hired for half a day a week (0.25 FTE)

Action 1: Strengthening strategic management

Year	Activities	Performance Indicators	Partners	Cost	Comments and assumptions
2018	17. (6) from 2016	Reports from two meetings per year		-	Half-day meeting
	18. (7) from 2016	Reports from two fora per year		-	Half-day meeting
	19. (14) from 2017	Evaluation of either HSFB or BDF completed by end of 2018		\$10,000	
	20. Training of PHC staff in relevant new diagnostic areas using evidence from BNR/HotN	At least one CME-accredited training session per year		\$7500	\$75 per person x 100 (includes refreshments)
	21. Training of medical records clerks in documentation and reporting of NCDs	At least one training session per year		\$1500	Four half-day seminars with refreshments
	22. Training for chronic care model implemented in at least two polyclinics with initial two external introductory meetings; follow-up meetings at polyclinics	Resources and training secured to ensure training and implementation by end of 2018	МН	\$750	At least 4 meetings with doctors, nurses, rehab, podiatrists, etc.; first with refreshments, rest in-house without
2019	23 .(6) from 2016	Reports from two meetings per year	MH, NNCDC	-	Half-day meeting
	24. (7) from 2016	Reports from two fora per year	MH, NNCDC	-	Half-day meeting
	25. Building capacity in public health leadership, strategic planning, monitoring and evaluation of heath sector performance	At least one CME-accredited training session per year	MH, PAHO/CARPHA	\$10,000	One 1-day CARPHA-run M&E seminar in Barbados

Strategic line of action 2: NCD surveillance and research

Objective: To continue strengthening Barbados' capacity for high quality surveillance (data management, analysis and reporting) and relevant research of chronic diseases, their risk factors, social determinants and consequences; to enhance the capacity for monitoring and evaluation of the impact of public health interventions.

Targets: Morbidity and mortality rates from NCDs reduced

Year	Activities	Performance Indicators	Partners	Cost	Comments and assumptions
2015	Assist BNR in creating more efficient modes of data collection from QEH, to permit more complete data collection from the private sector	Improved timeliness of BNR reporting; increased proportion of cases notified from the private sector from 2016	MH, QEH, UWI, NNCDC, BAMP	-	Partly achieved in 2014–2015 (BNR Annual Reports 2011– 13 delivered in 2014; electronic data collec- tion from QEH to begin Jan 2016)
2016	2. Agreement for services with QEH (e.g., to operationalise the cardiac suite)	Reduced mortality from CVDs by 2018	MH, QEH, UWI	-	Stroke Unit continues fully functional operation; cardiac suite functional by end of year
	 Establish guidelines for utilising NCD data, including regular audit/review of NCD surveillance system 	Completed audit report (surveillance system evaluation) by end of 2016	MH, QEH, UWI, NNCDC	\$5,000	Required to ensure relevance of data and timeliness of reporting and to encourage data use; EPIET Fellow recruited to perform evaluation from European CDC
	4. Establish a policy review committee to be held responsible with policy development from and implications of NCD surveillance data	Policy review committee established and action taken on at least one NCD or risk factor by end of each year	MH, QEH, NNCDC	\$1000	

Year		Activities	Performance Indicators	Partners	Cost	Comments and assumptions
2017	5.	Provide continuous funding for the BNR	BNR funding added as a line item to MH budget	MH, QEH, UWI, NNCDC	\$650,000 pa	Essential to perform monitoring and evaluation of interventions in the future
	6.	Improve efficiency of mortality data collation, analysis and reporting from MH to CARPHA	At least two persons in MH trained in statistical analysis and reporting of mortality data	МН	\$50,000	
	7.	Health Information Policy planned, adopted and implemented to strengthen HIS, data management, analysis and reporting in the public healthcare sector	Published health information policy and plan by MH; with routine reporting from QEH on NCD burden, service utilisation and costs, and electronic discharge summaries; and routine reporting from polyclinics on attendance for NCD clinics, BP checks, HbA1c testing and results	MH, polyclinics, QEH, NNCDC	\$450,000	
	8.	Repeat the Health of the Nation Survey	Final report for HotN2 completed by end of 2019	MH, UWI	\$450,000	HotN2 starts in 2017
2018	9.	Define, initiate and participate in NCD research projects	Research agenda updated; published research in peer-reviewed journals, public lectures and the popular media	MH, QEH, UWI, NNCDC, BAMP, health NGOs, CARPHA, CARICOM, PAHO	\$5000	Public lecture; publishing of one article per year
:	10	Define working group to ensure timely preparation of annual morbidity and mortality reports	Timely annual morbidity and mortality reporting (by gender) for international agencies (CARPHA, PAHO/WHO), including minimum NCD dataset	MH, UWI, QEH, NNCDC	-	Working group comprises new NCD Project Officer (PO), Biostatistician and Records Officer
	11	Implementation of selected modules of HIS from primary through to tertiary healthcare	Electronic capture of discharge summaries from QEH, with QEH reports on NCD burden, service utilization and costs	MH, QEH, NNCDC	-	

Action 2: NCD surveillance and research

Year	Activities	Performance Indicators	Partners	Cost	Comments and assumptions
2019	12. Designation of officer for preparation of reports on surveillance system and capacity assessment	Standardized reports produced of incountry assessment of NCD surveillance system and capacity	MH, NNCDC	-	NCD Officer with new PO
	13. Incentive for private practitioners for reporting acute MI, stroke and cancer to the BNR: reduced entry fee to CME-accredited BNR seminars	Increased reporting of key NCDs to BNR from private sector	MH, UWI, NNCDC		Call in to BNR Hotline or email BNR to notify cases for up to \$20 entry fee reduction for private physicians

Strategic line of action 3: Integrated disease management

Objective: To facilitate and support the strengthening of the capacity and competencies of the health system for the integrated management of chronic diseases.

Year	Activities	Performance Indicators	Partners	Cost	Comments and assumptions
2015	Review patient component of chronic care model and distil self- management information for patients in a user-friendly format	Preparation of passports, brochures, leaflets, flyers by end of 2016	МН	\$100,000	
	 Determine elements of chronic care model for implementation; provide necessary resources – staff, training, equipment 	Effective management structure based on the chronic care model implement-ted in 50% of polyclinics by end of 2017	МН	\$5000	Refreshments for four polyclinic training sessions (two per year)
	Strengthen HPV vaccination programme through production of leaflets, flyers, TV information	Increased uptake of HPV by end 2016 to at least 50%	МН	\$10,000	
2016	 Hire external body to conduct "pre-survey" of polyclinic attendees with NCDs to obtain prevalence of self-management 	% of people with NCDs who report self- management as critical to their care, eg through measuring their own blood pressure	MH, CDRC	\$10,000	MPH student project enabled through CDRC
	Create incentives and tools for self-care and self-management	Preparation and dissemination of toolkit by end of 2016	МН, РАНО	\$20,000	HPU to hire external agency
	6. Collaborate with media to translate technical content through popular multi-media communications	Production of appropriate media messages	МН	\$25,000	To be done through GIS

Year	Activities	Performance Indicators	Partners	Cost	Comments and assumptions
2016 cont'd	7. Adopt new cervical cancer screening guidelines in public and private sectors	New guidelines disseminated to all care providers; series of up to five CME-accredited workshops to train in new cervical cancer detection guidelines		\$50,000	
2017	8. Revise and update NCD Formulary and complete a national pharmaceutical plan	Barbados National Pharmaceutical Plan and Policy implemented by end 2017	MH, BDS	-	Policy already in progress; formulary updated annually
	 Design and develop public education campaigns, e.g. informing about the signs of stroke, heart attack and key cancers 	Production and dissemination of key messages and signs	MH, GIS, private sector	\$60,000	Utilise Giggert & Boo, social media, newspapers
	10.Implement an IT service that integrates primary and tertiary care in both public and private healthcare sectors	HIS implemented and operational by end of 2017	MH, QEH, polyclinics, private healthcare sector		In progress
2018	11. Conduct "post-survey" of polyclinic attendees with NCDs to obtain prevalence of personal health skills and selfmanagement	% of people with NCDs who report improved personal skills and selfmanagement	МН	\$10,000	MPH student project enabled through CDRC
2019	12. Hire contractor (e.g. public health nurse) to review provider records for uptake of Pap smears according to guidelines	At least 50% of sexually active women nationwide have had recommended Pap smear by 2019	МН	\$10,000	Public and private included
	13. Hospice services for terminally ill patients introduced	30% of all terminally ill patients in hospice care; 80% with access to morphine-equivalent medications	MH, palliative care provider(s)		Fee-for-service from private provider and provision of pain medications

Strategic line of action 4: Risk factor reduction

Objective: To develop and implement public policies and programmes to facilitate risk factor reduction interventions, supported by adequate resources and a comprehensive communication strategy and programme.

4a. Tobacco and alcohol

Objective: FCTC compliant legislation enacted and enforced, and strategies to reduce the harmful use of alcohol supported.

Year	Activities	Performance Indicators	Partners	Cost	Comments and assumptions
2015	Advocate for legislation to ban alcohol advertising, promotion and sale to minors	At least one meeting each with relevant government agency and stakeholders in alcohol production and distribution held by mid-2016	Ministries of Health, Finance, Trade, Attorney-General, Legal Affairs, CROSQ, PAHO	\$10,000	Two half-day meetings with refreshments
			Private: Bloomberg, tourism, health/life insurance companies Civil society: health		
			NGOs, universities		
2016	2. (1) from 2015	At least one meeting each with relevant government agency and stakeholders in alcohol production and distribution held by mid-2016		\$10,000	Two half-day meetings with refreshments
	3. Facilitate and promote legislation for FCTC compliant labels on cigarette packs	Legislation to be enacted by end of year followed by promotion	MH, NNCDC	\$10,000	TV and newspaper advertisements; BDS or H&SFB lecture
	4. Review 1974 liquor License Act and recommend legislation to establish an increase in minimum age for consumption and purchase	Letter written to relevant agency and meetings held	MH, NNCDC	-	

Year		Activities	Performance Indicators	Partners	Cost	Comments and assumptions
2017	5.	(1) from 2015	At least one meeting each with relevant government agency and stakeholders in alcohol production and distribution held by mid-2016	Ministries of Health, Finance, Trade, Attorney-General, Legal Affairs, CROSQ, PAHO	\$10,000	Two half-day meetings with refreshments
	6.	(2) from 2016	At least one meeting each with relevant government agency and stakeholders in alcohol production and distribution held by mid-2016	Private: Bloomberg, tourism, health/life insurance companies Civil society: health NGOs, universities	\$10,000	Two half-day meetings with refreshments
	7.	Survey of cigarettes sold to check for FCTC compliant labels	90% cigarettes sold carrying FCTC compliant labels			
2018	8.	(1) from 2015	At least one meeting each with relevant government agency and stakeholders in alcohol production and distribution held by mid-2016		\$10,000	Two half-day meetings with refreshments
	9.	(2) from 2016	At least one meeting each with relevant government agency and stakeholders in alcohol production and distribution held by mid-2016		\$10,000	Two half-day meetings with refreshments
	10	D. Facilitate and promote legislation to ban tobacco advertising, promotion and sponsorship	Complete ban on tobacco ads, promotion and sponsorship by 2019	MH, NNCDC, Ministries of Culture, Sports & Youth, Social Care, Constituency Empowerment & Community development, Tourism, and Commerce		Meetings with Ministries of Culture, Sports & Youth, Social Care, Constituency Empowerment & Community development, Tourism, and Commerce; Public lectures, TV, radio

Year	Activities	Performance Indicators	Partners	Cost	Comments and assumptions
2018 cont'd	11. Hire consultant to review existing alcohol treatment programmes and develop national guidelines; continue to ensure treatment access at community level	Establishment of national guidelines and counselling programme	MH, NNCDC,	\$5000	Hire consultant
	12. Repeat GSHS to obtain new proportion of 13-15 yr olds consuming alcohol	Proportion of youth consuming alcohol	МН	\$11,000	Field worker training, payment (\$80/day), printing of questionnaires and publishing report
	13. Support MPH student to conduct survey to assess compliance with ban on smoking in public places	Survey completed and recommendations adopted	MH, UWI		
2019	14. Advocate for increased cigarette taxes to 75% of sale price	Sale price of cigarettes increased	Ministries of Health, Finance, Trade, Attorney-General, Legal		
	15. Advocate for enactment for breathalyser legislation	Breathalyser legislation enacted	Affairs, CROSQ, PAHO Private: Bloomberg, tourism, health/life insurance companies Civil society: health NGOs, universities		
	16. Hire external company to perform survey to investigate existence of any alcohol advertising, promotion and sale to minors	Legislation to ban alcohol advertising, promotion and sale to minors enforced	МН	\$25,000	Field worker hiring, training, stipend and publishing of final result; MH to procure

4b. Healthy eating

Objective: To stimulate inter-sectoral action that promotes the availability, accessibility and consumption of safe, healthy, tasty foods.

Year		Activities	Performance Indicators	Partners	Cost	Comments and assumptions
2015	1.	Ensure national levels of salt intake and sources of sodium are estimated and produced in report	Report on salt intake from national salt study to be prepared and disseminated by year-end; policy brief by mid-2016	Ministries of Health, Finance, Trade, Attorney-General, Legal Affairs;	\$10,000	National Nutrition Centre (NNC) to implement proposal for policy and research
	2.	Promote tax on sugar-sweetened beverages(SSB) by providing evidence to support public health rationale for same to Ministry of Finance and Economic Affairs (MFE)	SSB tax introduced by end of 2015	Private: food manufacturers Civil society: health NGOs, universities	-	aligned with NCD burden
	3.	Survey of marketing to children on unhealthy foods	Survey report produced by 2016		\$10,000	NNC to hire consultant(s) for survey
2016	4.	Meet with five largest bakeries to advocate for decreased salt in all baked goods and salt labelling for all baked goods	Record of meeting; less salt noted on labels for bread; salt labels on baked goods other than bread and biscuits	MH, NNCDC	-	NNC to strengthen policy and research areas to reflect burden of unhealthy diets on NCDs and to equip centre to respond in all dimensions to epidemic
	5.	National consultation on salt with public and restaurateurs to remove salt shakers from tables	Agreement from at least 50% of restaurants to remove salt shakers	MH, NNCDC	\$15,000	One half-day seminar with lunch; two Town Hall meetings
	6.	Provide evidence for public health benefit from SSB tax	Survey report produced by 2017	MH, NNCDC, CDRC, FMS	\$26,000	SSB tax evaluation study is completed in 2016
	7.	Reduce or ban marketing of unhealthy foods and drinks (high sugar, high salt, high fat) to children	Policy recommendation produced by end of 2016 to ban marketing of these foods to children	MH, METI	-	

Year	Activities	Performance Indicators	Partners	Cost	Comments and assumptions
2016 cont'd	8. Social marketing campaign to increase daily consumption of fruits and vegetables	Campaign materials prepared and campaign completed by end 2016		\$60,000	
	9. Dialogue with Ministry of Agriculture and partners to enhance supply of locally produced fruits and vegetables	More locally available and affordable fruits and vegetables by end 2016 (from BAMC list price of vegetables)	MH, NNCDC, MAFFW	-	
2017	10. Policy dialogue with manufacturers and suppliers about sources and dangers of trans-fats	Strategies for reduction and eventual elimination of trans-fats to be produced by 2018	Private sector, MH	\$5000	Half-day seminar with refreshments
	11. Identify main sources of trans-fats in the Barbadian diet	Report from study produced by end 2018	MH, CDRC	\$5000	Secondary analysis of National Salt Study data
	12. Conduct national risk factor survey to include consumption of fruit and vegetables	Evidence showing increased fruit and vegetable consumption to at least 15% overall (e.g. HotN2 results)	Barbados National Standards Institute (BNSI), MH, UWI		To be done as part of HotN2; starting in 2017
2018	13. Advocate for legislation to ban industrial partially hydrogenated vegetable oils from food supply	Policy recommendation for banning trans-fats in industrial manufacturing of foods by end of 2019	MH, NNCDC, Ministries of Commerce, Finance, Education	\$5000	Raising public aware- ness through TV, radio, (GIS); one half-day seminar with producers and manufacturers
	14. Provide and implement standards for salt, fat and sugar in locally produced foods and restaurant foods by requiring nutritional labelling for salt, fat and sugar in locally produced and restaurant foods	Standards implemented by 2018; 50% of locally produced foods with required nutritional labelling by 2019	BNSI, MH		To be done through BNSI
2019	15. Study to test random sample of locally produced foods for salt, sugars and fat content	80% of samples meet standards	BNSI, MH		To be done through BNSI
	16. Second survey on marketing of unhealthy foods to children	Survey report by end of 2019	NNC, MH	\$10,000	NNC to hire consultant(s) for survey

4c. Physical activity (PA): Continuing support for community and population initiatives to promote physical activity and exercise

Objective: Continuing support for community and population initiatives to promote physical activity and exercise

Year		Activities	Performance Indicators	Partners	Cost	Comments and assumptions
2015	1.	Annual Caribbean Wellness Day (CWD); mass exercise activity	Increase numbers of sponsors by 10% annually	MH, Constituency Councils, NTFPA&E, NNCDC, private sector	\$15,000	
2016	2.	(1) from 2015	Increase numbers of sponsors by 10% annually	MH, Constituency Councils, NTFPA&E, NNCDC, private sector	\$15,000	
	3.	Stakeholder meeting with Town & Country Planning Office (TCDPO)	Plans agreed to support safe outdoor spaces	MH, NNCDC, NTFPA&E, TCDPO, Urban & Rural Development Commission	\$1000	One meeting with refreshments
2017	4.	(1) from 2015	Increase numbers of sponsors by 10% annually	MH, Constituency Councils, NTFPA&E, NNCDC, private sector	\$15,000	
	5.	(3) from 2015	Plans agreed to support safe outdoor spaces	MH, NNCDC, NTFPA&E, TCDPO, Urban & Rural Development Commission	\$1000	One meeting with refreshments
	6.	Exercise by prescription (EBP)	50% public sector HCP trained in EBP (with CME* credits)	MH, NNCDC, NTFPA&E, Dr Carl Ward, Dr Rene	\$5000	
			Recruitment of exercise consultant to conduct exercise sessions for public 3x/week, covering south and north of the island	Best	\$30,000	

Action 4: Risk factor reduction; (c) physical activity

Year	Activities	Performance Indicators	Partners	Cost	Comments and assumptions
2018	7. (1) from 2015	Increase numbers of sponsors by 10% annually	MH, Constituency Councils, NTFPA&E, NNCDC, private sector	\$15,000	
	8. (3) from 2015	Plans agreed to support safe outdoor spaces	MH, NNCDC, NTFPA&E, TCDPO, Urban & Rural Development Commission	\$1000	One meeting with refreshments
	9. Increase physical activity programmes in polyclinics by 25%	Provide resources to support 25% more polyclinics in establishing physical activity programmes	MH, Polyclinics, NTFPA&E, NNCDC	\$10,000	
2019	10. (1) from 2015	Increase numbers of sponsors by 10% annually	MH, Constituency Councils, NTFPA&E, NNCDC, private sector	\$15,000	
	11. (3) from 2015	Plans agreed to support safe outdoor spaces	MH, NNCDC, NTFPA&E, TCDPO, Urban & Rural Development Commission	\$1000	One meeting with refreshments
	12. Revise age-specific guidelines on physical activity and exercise for Barbados	Guidelines have been revised	MH, NTFPA&E	\$20,000	

4d: Integrated programmes: Build capacity with media and other partners to promote healthy lifestyles

Objective: Integrated Programmes, especially in schools, workplaces and faith-based settings:

- 1. Build capacity with media and other partners to promote healthy lifestyles
- 2. School based prevention initiatives facilitated and promoted
 - a. Health-Promoting Schools programme implemented
- 3. Workplace wellness programmes supported and embraced

Year		Activities	Performance Indicators	Partners	Cost	Comments and assumptions
2015	1.	Appoint Focal Points in Ministries of Health and Education for Health Promoting Schools	At least one meeting with Focal Points held by end of 2015	MH, METI, NNCDC	\$4000	One meeting with HPU and ministries to introduce Focal Points to each other and explain their remit; with refreshments
2016	2.	Secure 0.1% health budget for training to implement chronic care model	At least two training sessions conducted by end of 2016	MH, NNCDC		See Strategy 1
	3.	Train FPs in Ministries of Health and Education for Health Promoting Schools	At least two schools designated Health Promoting Schools by year- end	MH, METI, NNCDC	-	Technical and other assistance from PAHO for training and guidance, possibly overseas
	4.	Expand Health and Family Life Education curriculum to embrace NCD prevention	Curriculum expanded and disseminated by year-end; including quality physical education with opportunities for physical activity before, during and after the formal school day	MH, METI, NNCDC		Budgeted from METI
	5.	Develop tool kit for Faith-based organisations (FBOs) and health NGOs	Tool kit for faith-based organisations (FBOs) and health NGOs developed and distributed	MH, NNCDC	\$5000	

Year		Activities	Performance Indicators	Partners	Cost	Comments and assumptions
2017	6.	Conduct training workshops for faith based organisations (FBOs) and community organisations in creating and maintaining health promoting environments	At least two new community-based health promotion programmes implemented by FBOs		\$5000	Half-day seminar with refreshments
	7.	Procure consultant to establish criteria for workplace wellness programmes (WWPs) for unions, small, medium and large enterprises	Standard operating procedure (SOP) with criteria and toolkit for WWPs prepared and disseminated by end of 2017	MH, NNCDC	-	Through NNCDC/PAHO
	8.	Provide training for employers and trades unions to promote, implement and evaluate workplace wellness programmes	At least two training sessions for employers and trades unions in promotion, implementation and evaluation of workplace wellness programmes by end of 2017		\$20,000	
	9.	FPs to convene workshops to train representatives from the education sector in best practices, including NCD risk education, health-promoting schools components, implementation and evaluation	At least two training sessions for education sector representatives in best practices by end of 2017		\$20,000	
	10	Conduct the next Global School Health Survey	GSHS report prepared and disseminated by end of 2018		\$20,000	12 field workers @ \$80 per day for 1 month

Action 4: Risk factor reduction; (d) integrated programmes

Year	Activities	Performance Indicators	Partners	Cost	Comments and assumptions
2018	11. Conduct national audit of all workplace wellness programmes	% Public and % private sector with structured workplace wellness programmes	МН		- Repeat of telephone survey conducted by MH employee
	12. Define and quantify potential high-risk population to receive Hep B vaccine	Survey report prepared and disseminated by end of 2018	МН		 All health care workers and care givers (public and private); public health nurse on assignment to collect data
2019	13. FPs to work with National Nutrition Centre to develop and implement strategies and programmes for promoting innovative, healthy fast food opportunities and options in schools; including strategy for food-sellers at school gates	Schools' Healthy Eating Programme guidelines developed and implemented by end of 2019	МН		-
	14. Administer HBV to high-risk population	90% of high-risk population vaccinated for HBV by end of 2019	МН		Cost of vaccine x 90% of high-risk population

References

- 1. Healthy Caribbean Coalition (2014). Responses to NCDs in the Caribbean Community. A civil society regional status report. HCC: Bridgetown, Barbados.
- 2. World Health Organization (2011). Non-communicable Diseases: country profiles 2011. WHO:
- 3. Barbados National Registry for Chronic Non-communicable Disease (2015). Stroke and acute myocardial infarction (MI) data 2009–2013. BNR Briefing report, v1 (April 2015). Chronic Disease Research Centre, The University of the West Indies and the Barbados Ministry of Health: St Michael, Barbados.
- 4. Unwin N, Rose AMC, George KS, Hambleton IR, Howitt C (2015). The Barbados Health of the Nation Survey 2012: Core Findings. Chronic Disease Research Centre, The University of the West Indies and the Barbados Ministry of Health: St Michael, Barbados.
- 5. National NCD Commission Barbados Ministry of Health (2014). Barbados Strategic Plan for the Prevention and Control of Non-Communicable Diseases 2015–2019. NNCDC and Barbados MH: St Michael, Barbados.

Appendix 1: Activities for each strategic line of action by year

Year		1: Strengthening strategic management		2: NCD surveillance and research		3: Integrated disease management
2015	1.	Lobby government for passing of new notifiable diseases act including CVDs	1.	Assist BNR in creating more efficient modes of data collection from QEH, to permit more complete data collection from the private sector	1.	Review patient component of chronic care model and distil self-management information for patients in a user-friendly format
	2.	Preparation of Annual Report for the NNCDC			2.	Determine elements of chronic care model for implementation; provide necessary resources – staff, training, equipment
	3.	Evaluate POS NCD Summit Declaration in 2013 and 2014			3.	Strengthen HPV vaccination in schools programme
	4.	Evaluate financial expenditures for NCD prevention and control				
2016	5.	(1) from 2015	2.	Agreement for services with QEH (e.g., to operationalise the cardiac suite)	4.	Conduct "pre-survey" of polyclinic attendees with NCDs to obtain prevalence of self-management
	6.	Biannual high level meeting among senior management of MH and NNCDC	3.	Establish guidelines for utilising NCD data, including regular audit/review of NCD surveillance system	5.	Create incentives and tools for self-care and self-management
	7.	Establish biannual forum for Medical Officers of Health to meet with NNCDC	4.	Establish a policy review committee to be held responsible with policy development from and implications of NCD surveillance data	6.	Collaborate with media to translate technical content through popular multimedia communications
	8.	Identify mechanisms to strengthen MH/NGO stakeholder engagement			7.	Adopt new cervical cancer screening guidelines in public and private sectors
	9.	Evaluate Strategic NCD Plan 2009–2012				
	10	D. Complete NCD health manpower needs projections				

Appendix 1: Activities for each strategic line of action by year (Actions 1–3)

Year	1: Strengthening strategic management		2: NCD surveillance and research		3: Integrated disease management
2017	11. (1) from 2015	5.	Provide continuous funding for the BNR	8.	Revise and update NCD Formulary and complete a national pharmaceutical plan
	12. (6) from 2016	6.	Improve efficiency of mortality data collation, analysis and reporting from MH to CARPHA	9.	Design and develop public education campaigns, e.g. informing about the signs of stroke, heart attack and key cancers
	13. (7) from 2016	7.	Health Information Policy planned, adopted and implemented to strengthen HIS, data management, analysis and reporting in the public healthcare sector	10	D. Implement an IT service that integrates primary and tertiary care in both public and private sectors
	14. Performance of NGOs vs subventions evaluated, including Heart and Stroke Foundation (HSFB) and Diabetes Foundation	8.	Repeat the Health of the Nation Survey		
	15. NNCDC to conduct seminar/meeting/consultation with strategic partners (especially NGOs) to discuss NCD prevention and control measures				
	16. Identify resources to strengthen SMOH NCD Office to liaise with polyclinics for obtaining data in order to prepare regular NCD reports				

Appendix 1: Activities for each strategic line of action by year (Actions 1–3)

Year	1: Strengthening strategic management	2: NCD surveillance and research	3: Integrated disease management
2018	17. (6) from 2016	Define, initiate and participate in NCD research projects	11. Conduct "post-survey" of polyclinic attendees with NCDs to obtain prevalence of personal health skills and selfmanagement
	18. (7) from 2016	10. Define working group to ensure timely preparation of annual morbidity and mortality reports	
	19. (14) from 2017	11. Implementation of selected modules of HIS from primary through to tertiary healthcare	
	20. Training of PHC staff in relevant new diagnostic areas using evidence from BNR/HotN		
	21. Training of medical records clerks in documentation and reporting of NCDs		
	22. Chronic care model implemented in at least two polyclinics		
2019	23. (6) from 2016	12. Designation of officer for preparation of reports on surveillance system and capacity assessment	12. Review of providers records to examine uptake of Pap smears according to guidelines
	24. (7) from 2016	13.Incentive for reporting acute MI, stroke and cancer to the BNR: reduced entry fee to CME-accredited BNR seminars	13. Hospice services for terminally ill patients introduced
	25. Building capacity in public health leadership, strategic planning, monitoring and evaluation of heath sector performance		

Year	(a) Tobacco and alcohol	(b) Healthy eating	(c) Physical activity	(d) Integrated programmes
2015	Advocate for legislation to ban alcohol advertising, promotion and sale to minors	Ensure national data on salt intake and sources of sodium	Annual CWD; mass exercise activity	Appoint Focal Points in Ministries of Health and Education for Health Promoting Schools
		2. Promote tax on sugar-sweetened beverages(SSB) by providing evidence to support public health rationale for same to Ministry of Finance (MFE)		
		3. Survey of marketing to children on unhealthy foods		
2016	2. (1) from 2015	4. Meet with five largest bakeries to advocate for decreased salt in all baked goods and salt labelling for all baked goods	2. (1) from 2015	2. Secure 0.1% health budget for training to implement chronic care model
	3. Facilitate and promote legislation for FCTC compliant labels on cigarette packs	5. National consultation on salt with public and restaurateurs to remove salt shakers from tables	3. Stakeholder meeting with Town & Country Planning Office	3. Train Focal Points in Ministries of Health and Education for Health Promoting Schools
	4. Review 1974 liquor License Act and recommend legislation to establish an increase in minimum age for consumption and purchase	6. Provide evidence for public health benefit from SSB tax		4. Expand Health and Family Life Education curriculum to embrace NCD prevention
		Reduce or ban marketing of unhealthy foods and drinks (high sugar, high salt, high fat) to children		Develop tool kit for Faith- based organisations (FBOs) and health NGOs
		8. Social marketing campaign to increase daily consumption of fruits and vegetables		
		Dialogue with Ministry of Agriculture and partners to enhance supply of locally produced fruits and vegetables		

Year	(a) Tobacco and alcohol	(b) Healthy eating	(c) Physical activity	(d) Integrated programmes
2017	5. (1) from 2015	10. Policy dialogue with manufacturers and suppliers about sources and dangers of trans-fats	4. (1) from 2015	6. Conduct training workshops for faith based organizations (FBOs) and community organisations in creating and maintaining health promoting environments
	6. (2) from 2016	11. Identify main sources of trans-fats in the Barbadian diet	5. (3) from 2015	7. Establish criteria for workplace wellness programmes (WWPs) for unions, small, medium and large enterprises
	Survey of cigarettes sold to check for FCTC compliant labels	12. Conduct national risk factor survey to include consumption of fruit and vegetables	6. Exercise by prescription (EBP)	8. Provide training for employers and trades unions to promote, implement and evaluate workplace wellness programmes
				9. FPs to convene workshops to train representatives from the education sector in best practices, including NCD risk education, health-promoting schools components, implementation and evaluation
				10. Conduct the next Global School Health Survey

Appendix 1: Activities for each strategic line of action by year (Action 4 a–d)

Year	(a) Tobacco and alcohol	(b) Healthy eating	(c) Physical activity	(d) Integrated programmes
2018	8. (1) from 2015	13. Virtual elimination of partially hydrogenated vegetable oils from the food supply	7. (1) from 2015	11. Conduct national audit of all workplace wellness programmes
	9. (2) from 2016	14. Provide and implement standards for salt, fat and sugar in locally produced foods and restaurant foods	8. (3) from 2015	12. Conduct survey of employers to define and quantify potential high-risk population to receive Hepatitis B vaccine
	10. Facilitate and promote legislation to ban tobacco advertising, promotion and sponsorship		9. Increase physical activity programmes in polyclinics by 25%	
	11. Review existing alcoholic treatment programmes and develop national guidelines, and ensure treatment access at community level			
	12. Repeat GSHS to obtain new proportion of 13-15 yr olds consuming alcohol			
	13. Support MPH student to conduct survey to assess compliance with ban on smoking in public places			

Appendix 1: Activities for each strategic line of action by year (Action 4 a–d)

Year	(a) Tobacco and alcohol	(b) Healthy eating	(c) Physical activity	(d) Integrated programmes
2019	14. Advocate for increased cigarette taxes to 75% of sale price	15. Study to test random sample of locally produced foods for salt, sugars and fat content	10. (1) from 2015	13. Focal Points to work with National Nutrition Centre to develop and implement strategies and programmes for promoting innovative, healthy fast food opportunities and options in schools; including strategy for food-sellers at school gates
	15. Advocate for enactment for breathalyser legislation		11. (3) from 2015	14. Administer HBV to high-risk population
	16. Survey to investigate existence of any alcohol advertising, promotion and sale to minors		12. Revise age-specific guidelines on physical activity and exercise for Barbados	