

Burden of the NCD Epidemic in the Caribbean: Implications for Universal Health Coverage

Universal Health Coverage Meeting October 22-23, 2012 C. James Hospedales Senior Advisor

NCD Prevention & Control, PAHO/WHO



Outline

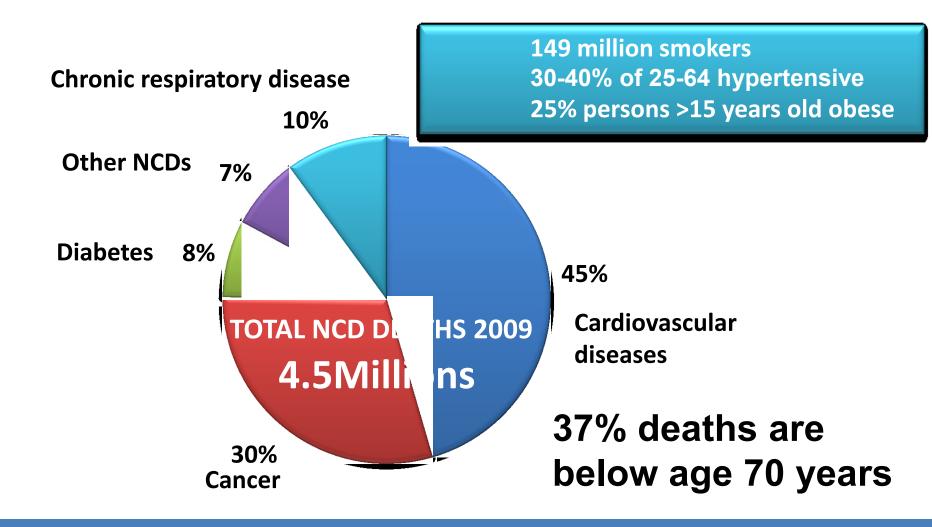
- 1. NCDs and Risk Factors
- 2. CARICOM Heads Summit & UN High Level Meetings on NCDs
- 3. Characteristics of high performing chronic care systems
- 4. Caribbean Diabetes & NCD quality improvement project
- 5. Conclusions

NCDs and Risk Factors ("4 X 4" + Obesity)

		Modifiable causative risk factors for NCDs									
		Tobacco use	Unhealth y diets	Physical inactivity	Harmful use of alcohol						
Noncommunicable diseases	Heart disease and stroke	✓	\checkmark	\checkmark	\checkmark						
nunica	Diabetes	\checkmark	\checkmark	\checkmark	\checkmark						
ble di	Cancer	\checkmark	\checkmark	\checkmark	\checkmark						
seases	Chronic lung disease	\checkmark									

Co-morbidities and co-benefits: Mental health, oral, ocular, renal

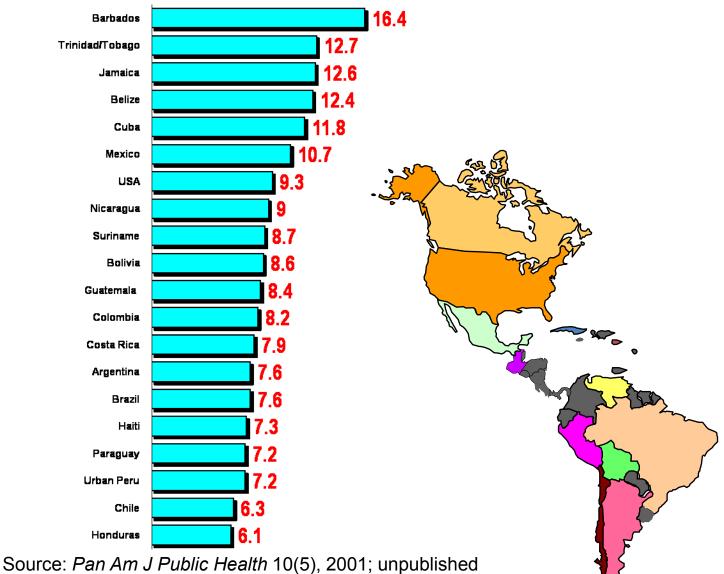
NCDs #1 KILLER IN AMERICAS REGION



Approx 250,000,000 people live with an NCD in the Americas region

Prevalence (%) of diabetes among adults in the Americas





(CAMDI), Haiti (Diabetic Medicine); USA (Cowie, Diabetes Care)

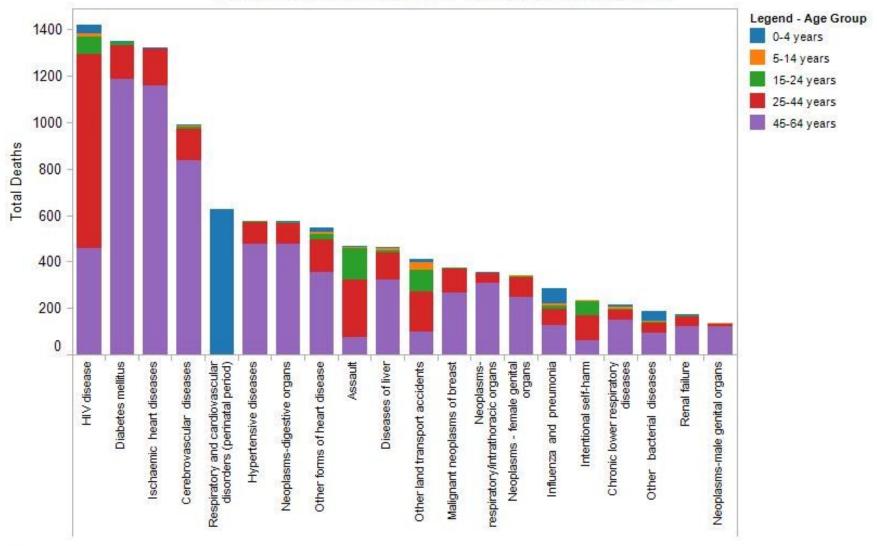
All is not well in Paradise: "Diabesity" and NCDs





Premature Mortality in the Caribbean

Graph showing leading causes of death* for persons <65 years in CAREC Member Countries** in 2006 by age grouping



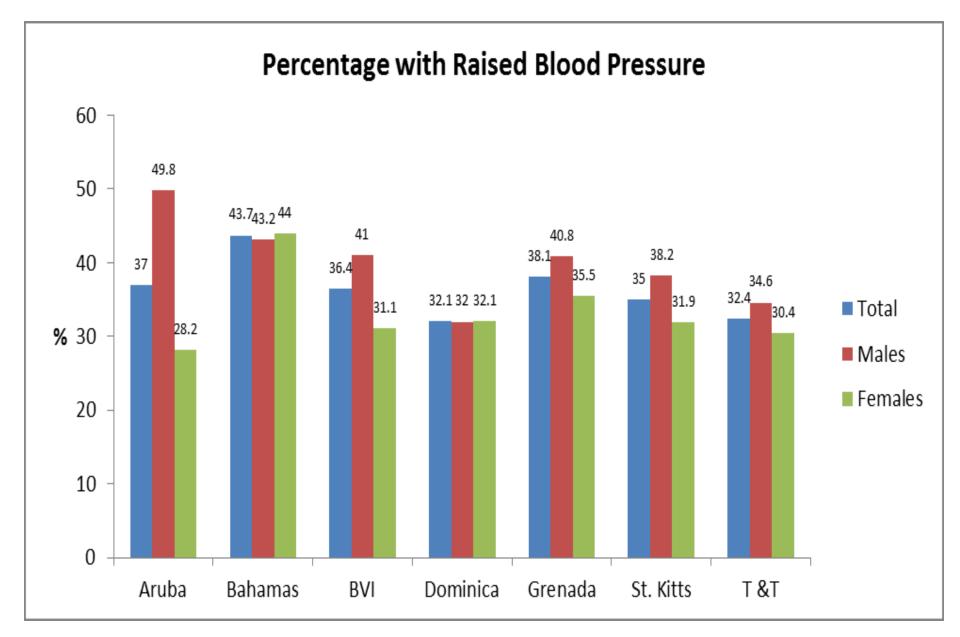
Notes:

* Underlying causes of death classified using ICD-10 Volume 1 Block classifications

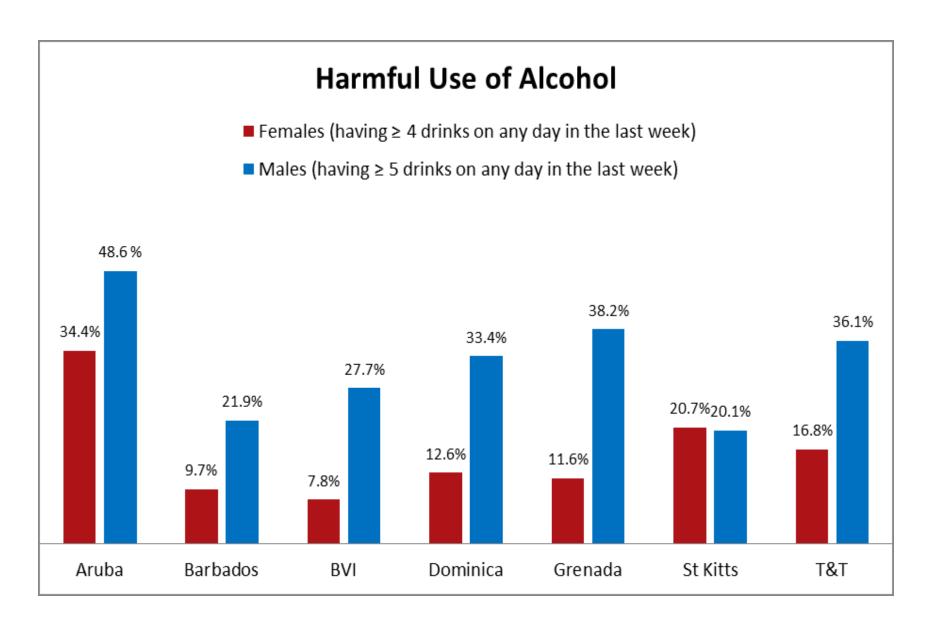
** Includes data for all CAREC Member Countries except the BES Islands, Curacao and St. Maarten

Raised Blood Pressure





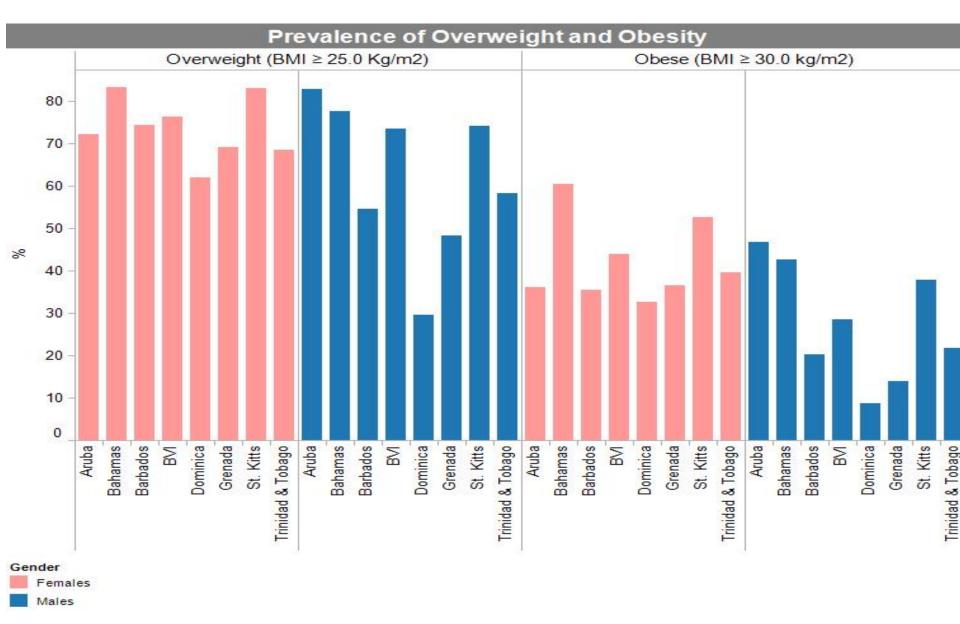
Harmful Use of Alcohol







Overweight and Obesity

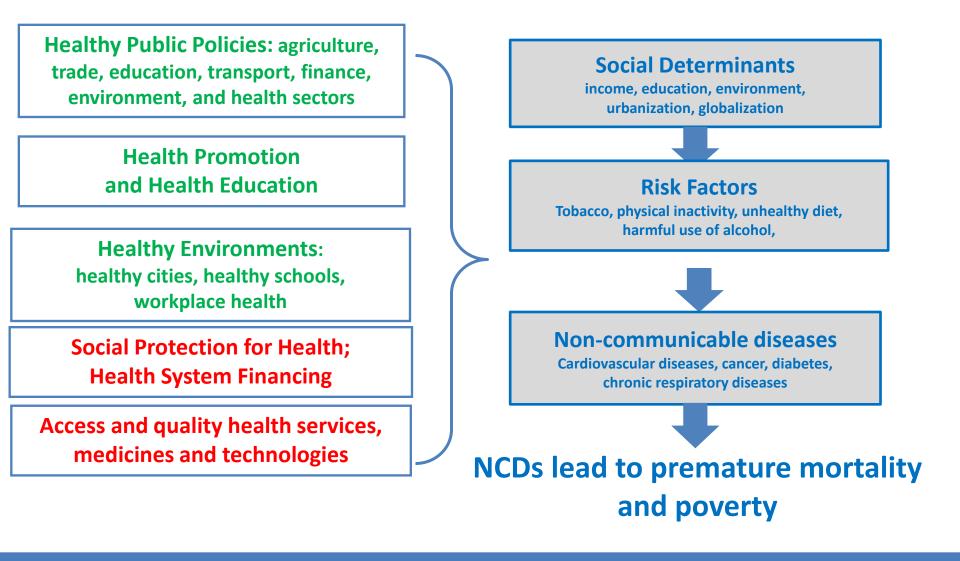


Estimated Economic Burden (\$US Million, 2001)

	BAH	BAR	JAM	TRT
Diabetes	27	38	221	467
Hypertension	46	73	266	250
Total	73	111	487	717
% GDP	1.4	5.3	5.8	8.0

Abdulkadri et al. Social and Economic Studies 58: 3 & 4 (2009): 175-197

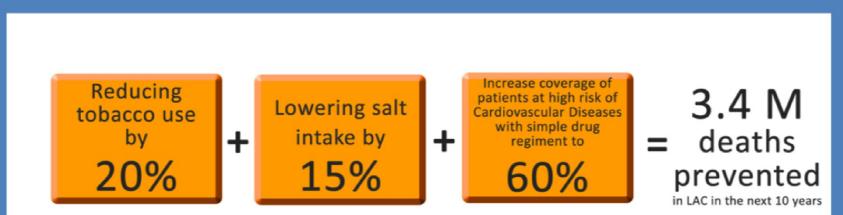
FRAMEWORK FOR ACTION ON NCDs







NCDs ARE HIGHLY PREVENTABLE



*Gaziano T, et al. Scaling-up interventions for chronic disease prevention: the evidence. Lancet, 2007,370: 1939-46; extrapolated to countries of Latin America and Caribbean countries.

The tobacco and salt intake interventions would be cost than US \$ 0.40 per person/year in low and middle income countries, and US\$ 0.50-1.00 in upper middle-income countries



The CARICOM Heads Summit on NCDs, 2007.

- "We, the Heads of State of the Caribbean Community...."
- 15-point "Port of Spain Declaration"; multi-sectoral
- <u>Tobacco</u> Ratify and implement the WHO FCTC: taxes, packaging, earmark some revenue for health promotion & disease prevention, ban smoking in public places
- <u>Alcohol</u>- use alcohol taxes to finance NCD prevention and control
- <u>Healthy Diet</u> Trade policies on food imports, agriculture policies, Healthy school meals, Food labeling, reduce or eliminate trans fats
- <u>Physical activity-physical education in schools; physical activity in work places;</u> improve public facilities for physical activity
- <u>Health services</u> screening and management of NCDs to achieve 80% coverage by 2012; primary and secondary prevention, comprehensive health education
- <u>Monitoring</u> Surveillance of risk factors; monitoring of the actions agreed upon in Declaration (CARICOM Secretariat, CAREC, UWI & PAHO/WHO)
- <u>Mobilizing Society</u> National Commissions on NCDs; including public, private sector and civil society, media and communications industry
- Caribbean Wellness Day Second Saturdays in September

WWW.CARICOM.ORG

CARIBBEAN NCD SCORECARD: CARICOM/PAHO Joint Secretariat

000	Summit Declaration -				_			_					-							Т
POS NCD #	NCD Progress Indicator	A N G	A N T	B A H	B A R	BEL	BER	V I	C A Y	D O M	G R E	G U Y	H A I	A	0 N	S K N	T L	V G	UR	
	•				CON	МІТИ	NEN		_		_									-
1,14	NCD Plan	Ŧ	Ξ	1	$^{\vee}$	±	\neg	\neg	\neg	\neg	\neg	\neg	Х	$\overline{\mathbf{A}}$	Ξ	$\overline{\mathbf{A}}$	\neg	±	-	
4	NCD Budget	Х	±	N	$^{\vee}$	X	Х	X		±	N	N	Х	Х	X	Х	\neg	Х	N	
2	NCD Summit convened	X		Х	\neg	X	\checkmark	\neg	Х	\neg	- V		Х	$\overline{\mathbf{v}}$	Ŧ	V		Х	\neg	
2	Multi-sectoral NCD Commission	+	Х	Х	$^{\vee}$	±	\checkmark		Х	±	$^{\vee}$		Х	N		Х	\checkmark	Х	±	
	appointed and functional														*					
	1				_	BAC	co			_	_			_						_
3	FCTC ratified	*	$^{\vee}$	N	V		*	*	V	$^{\vee}$	\checkmark	N,	Х	N,	<u></u>	N	$^{\vee}$	N	N	
3	Tobacco taxes >50% sale price	X	Х	Х	N	Х		Х	±	Х	N	V	Х	V	<u> </u>	±	N	Х	V	
3	Smoke Free indoor public places	X	$^{\vee}$	±	V	±	N	N	V	±	\checkmark		Х	±	×	X	\neg	Х	±	
3	Advertising, promotion & sponsorship	X	X	X	N	Х	\checkmark	N	$^{\vee}$	Х	Х	±	Х	N		X	X	X	±	
	bans																			
-		-			NU	TRIT	ION	_				_		_	-					-
7	Multi-sector Food & Nutrition plan implemented	N	Ŷ	N	Ň	±		N	×	Ŷ	Ŷ	N	Х	Ŷ	Ŷ	N I	× .	Ŷ	×	
7	Trans fat free food supply	X	х	x	Х	Х		Х	х	Х	Х	Х	х	±	V	Х	X	X	Х	
7	Policy & standards promoting healthy	∧ +	$\overline{}$	X	$\overline{\mathbf{v}}$	^ ±	Ż	x	_	× ±	X	× ±	X	± √		±	x	Â	Â	
1	eating in schools implemented	<u> </u>	Ň		Ň	Ξ	Ň		N	Ξ		Ξ	^	Ň	<u> </u>	± .	$ \uparrow$	1		
8	Trade agreements utilized to meet	X	х	X	Х	Х	Х	х	Х	Х	х	±	х	Х	Х	х	X	x	х	H
0	national food security & health goals		L ^			^	$ ^{}$					÷	^	$ ^{\sim}$	1^	$ ^{\uparrow}$	$ ^{}$	1		
9	Mandatory labeling of packaged	X	Х	x	X	х	±	x	±	±	х	±	Х	X	X	X	X	X	±	۲
•	foods for nutrition content						-		-	-		-							-	
				PH	YSIC		CTI	ITY												
6	Mandatory PA in all grades in	V	N	X		V	±	±		$\overline{\mathbf{v}}$	Х	±	Х	±	X		X	X	Х	Г
	schools														-					
10	Mandatory provision for PA in new	Х		Х	$\overline{\mathbf{v}}$	V		*	Х	Х	Х	Х	Х	Х	+		Х	Х	Х	
	housing developments															•				
10	Ongoing, mass Physical Activity or	Х	$\overline{\mathbf{A}}$	\neg	$^{\vee}$	V	\checkmark	Х	$^{\vee}$	\neg	\checkmark	\neg	Х	\neg	+	$^{\vee}$	\neg	\neg	\neg	Γ
	New public PA spaces																			
			E	DUC	ATIO	N / P	ROM	οτια	DN											
12	NCD Communications plan	Х	Х	±	±	Х	\checkmark	Х		±	±	V	Х	±	×	Х	±	Х	±	
15	CWD multi-sectoral, multi-focal	N	\checkmark	$^{\vee}$	\checkmark	\checkmark	\checkmark	V	\checkmark	$^{\vee}$	\checkmark		Х	$^{\vee}$	$^{\vee}$	$^{\vee}$	\checkmark	\checkmark	$^{\vee}$	L
	celebrations																			
10	≥50% of public and private	X	X	X	X	X		X	±	X		±	Х		<u> </u>		±	X	X	
	institutions with physical activity and																			
40	healthy eating programmes												~							L
12	≥30 days media broadcasts on NCD	X	N	Х	N	Х	N	×	-¥-	±		N	Х	γ	<u> </u>	γ	±	X	-¥-	
	control/yr (risk factors and treatment)					EILL	ANC	=												L
11,	Surveillance: - STEPS or equivalent	X	Y.	1			ANC			N	2	±	V.	N	+	1	±		±	
13,	survey				ľ.	Y.	v		v	V.	¥.	÷		Y.	<u> </u>		<u> </u>	<u> </u>	÷	
14	- Minimum Data Set reporting	X	-	N	N	N		V		N	4	±	x	V	-	$\overline{\mathbf{v}}$			J	
	- Global Youth Tobacco Survey	Ŷ	V	J.	Ň	J.	Ý	Ń	۷ ±	N	N	1	1	Ň	÷ Y	V	Ň	N	Ň	
	- Global School Health Survey		J.	A N	- V	- V	Ŷ	1	-	N	N	1	V.	Ĵ		Ĵ.	J.	N	N	f
	Giobal Concornicaturi Ourvey		Y I	Y	TRF	ATM	IENT		Y I	N.	Y	Y	~	Ţ	<u> </u>	N N	Y I	Y	v	-
5	Chronic Care Model / NCD	X	N		±	±	±	±	+	X	V	+	X		Ŧ	V		Ŧ	+	
5	treatment protocols in ≥ 50% PHC				÷	- ·		-	<u> </u>		,	÷			<u> </u>	,		<u> </u>	÷	
	facilities																			
5	QOC CVD or diabetes demonstration	±	N		V	±	±	±		Х		V	±	V	X	±		Х	V	f
2	project	-				-	-	-					-			-				
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		G	T.	H	R		R	T.		M	E	Y	ï	M	N	N		G	R	L

NCD Progress Indicator Status / Canacity by Country in Implementing NCD

NCD COUNTRY CAPACITY Preventative Health Services		A N	B A	B A	B E	B E	B V	C A	D O	G R	G U	H A	J A	M O	S K	S T	S V	S U	T R
	G	T	Н	R	L	R	1	Y	М	Ε	γ		Μ	Ν	N	L	G	R	T
PRIMARY LEVEL of CARE																			
CVD Risk ASSESSMENT																			
BMI																			
Blood Pressure																			
Blood Glucose																			
Blood Lipids										*									
Individual Risk Management with a																			
validated CV risk score																			
DM AND CVD MANAGEMENT																			
Blood pressure Monitoring																			
Blood Glucose Monitoring																			
Blood Lipids Monitoring										-									
HbA1C										*									
Diabetic Foot Examination													-						
Electrocardiogram										*									
			CE	RVIC	AL C	ANC	ER												
Cervical Cytology or PAP																			
HPV DNA Testing			-																
Visual Inspection Techniques			-																
VIA & Cryotheraphy in a single visit			-																
			E	BREA	T CA	NCE	R												
Clinical Examination																			
Mammography			-														-		
			COL	ORE	CTAL	CA	ICEF	ł											
Fecal Occult Blood test																			
Digital Exam																			
	KEY Available to all patients Available - Limited Resources Not Available																		

UNHLM on NCDs: an Intersectoral Issue





Committee of the second

✓ HEALTH SYSTEMS THAT SUPPORT PRIMARY HEALTH CARE, effective, sustainable coordinated responses.

✓ Improving alliances and the accessibility to MEDICINES , TECHNOLOGIES and DIAGNOSTIC SERVICES
✓ Make full use of TRIPS flexibilities

✓Importance of UNIVERSAL COVERAGE

✓ Increase and prioritize NCDs in BUDGETARY ALLOCATIONS

✓ Strengthen INFORMATION SYSTEMS

United Names General Assembly	A-set.1 Dom: Longent 16 September 2011 Organi, English
 Sterr disk seelen Agende som 11 Teller og en der ensenen die Aldhensen Kommit Palitikal declaration ein der Fi Nach central Assembly ein die Final Angen die Palitikal Beiterste Assembly ein die Personnen und G	does of die Gewend Armobile Ferendrices and Constral of Fe Se and of Non-communication Diseases and and and of Non-communication Diseases assessed to

✓ Promote MULTISECTORAL & MULTI-STAKEHOLDER ENGAGEMENT and GENDER-BASED approaches

✓ Promote the PRODUCTION, TRAINING AND RETENTION OF HEALTH WORKERS

✓ Ensure the SCALING-UP of COST-EFFECTIVE INTERVENTIONS Best Buys

NCD 'Best Buys': \$9/Bn/yr investment for developing world to implement (WHO, 2011)

Condition	Interventions							
Tobacco use	Tax increases; smoke-free indoor workplaces & public places; health information / warnings; advertising/promotion bans							
Alcohol use	Tax increases; restrict retail access; advertising bans							
Unhealthy diet & physical inactivity	Reduced salt intake; replacement of trans fat; public awareness about diet & physical activity							
CVD & diabetes	Counselling & multi-drug therapy (including glycaemic control for diabetes) for people with >30% CVD risk (including those with CVD); treatment of heart attacks with aspirin							
Cancer	Hepatitis B immunization to prevent liver cancer; screening & treatment of pre-cancerous lesions to prevent cervical cancer							

Many Good Buys: tobacco cessation counseling, alcohol screening and short interventions, diabetic foot care...

10 characteristics of the high-performing chronic care system

Chris Ham

Prof. Health Policy & Health Services Management University of Birmingham, Health Economics, Policy and Law (2010), 5, 71–90

Context

- Populations ageing & burden of disease changing
- Health care systems need to adapt
- New paradigm needed; less emphasis acute/episodic care
- Wagner's chronic care model points the way
- Progress in implementing slow and uneve
- 2/3 hospital bed days from unplanned admissions
- A high % of these admissions involve people with exacerbation of one or more chronic conditions
- Proactive management of these people could help to avoid admissions and help them remain independent

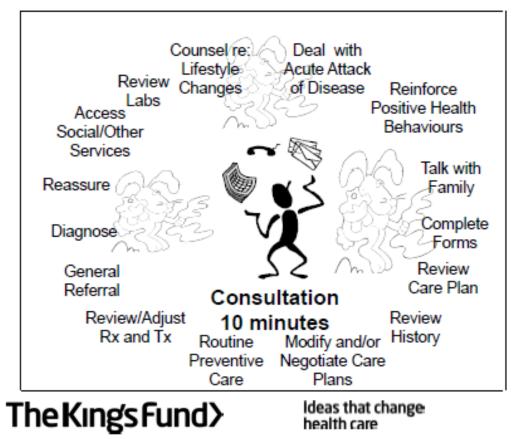
Chronic care - a new approach is advocated

Traditional Model



Chronic Care Model

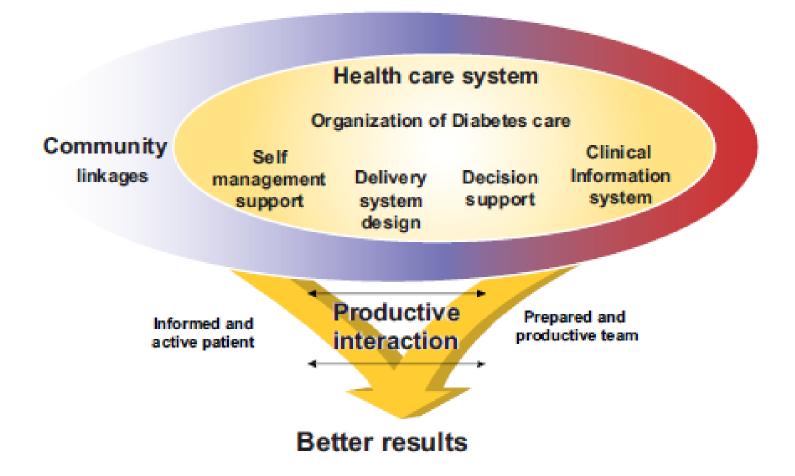
SICKNESS CARE MODEL (Current Approach - Physician Centric)



Care is Proactive

- Care delivered by a health care team
- Care integrated across time, place and conditions
- Care delivered in group appointments, nurse clinics, telephone, internet, e-mail, remote care technology
- Self-management support a responsibility and integral part of the delivery system

Figure 3. The Chronic Care Model

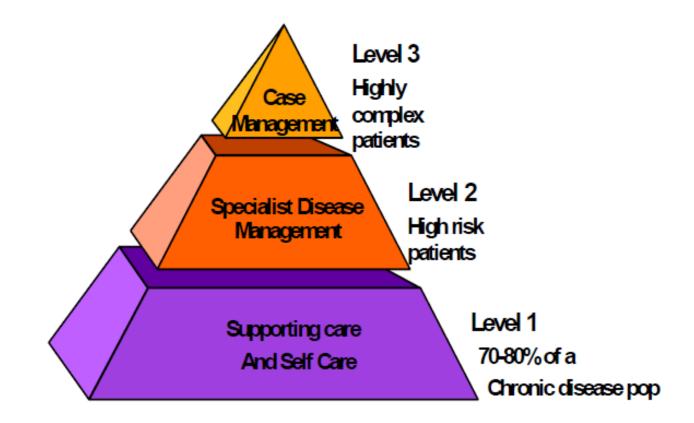


Wagner EH. Chronic disease management: What will it take to improve care for chronic illness? Effective Clinical Practice. 1998;1:2-4

10 Characteristics of High Performing Chronic Care systems

- 1 and 2
 - Ensure universal coverage
 - Provide care free at the point of use (or patients may present late or not use services because of the costs)
- 3, 4 and 5
 - Delivery system should focus on prevention; not just treatment
 - Primary care should be at the heart of the delivery system
 - Priority should be given to patients to self-manage their conditions with support from care givers and families

Understanding the population



The Kings Fund>

ldeas that change health care

10 Characteristics cont'd

- 6 and 7
 - Population health management should be emphasised not just responding to the needs of individual patients
 - Care should be integrated to enable primary care teams to access specialist advice and support
- 8 and 9
 - Information technology should be used to improve chronic care
 - Care for individual patients needs to be **coordinated** effectively
- 10
 - These 9 characteristics need to be in a coherent whole as part of a strategic approach to change
 - The evidence shows that it is the cumulative effect of different interventions and actions that makes a difference



Antigua & Barbuda

Anguilla

Barbados

Belize

Grenada

Guyana

Jamaica

St. Lucia

Suriname

Trinidad & Tobago

CENTERS	142
PHYSICIANS	180
NURSES	405
OTHER	67
PATIENTS	41,200

PAHO/WHO World Diabetes Foundation



Some Elements



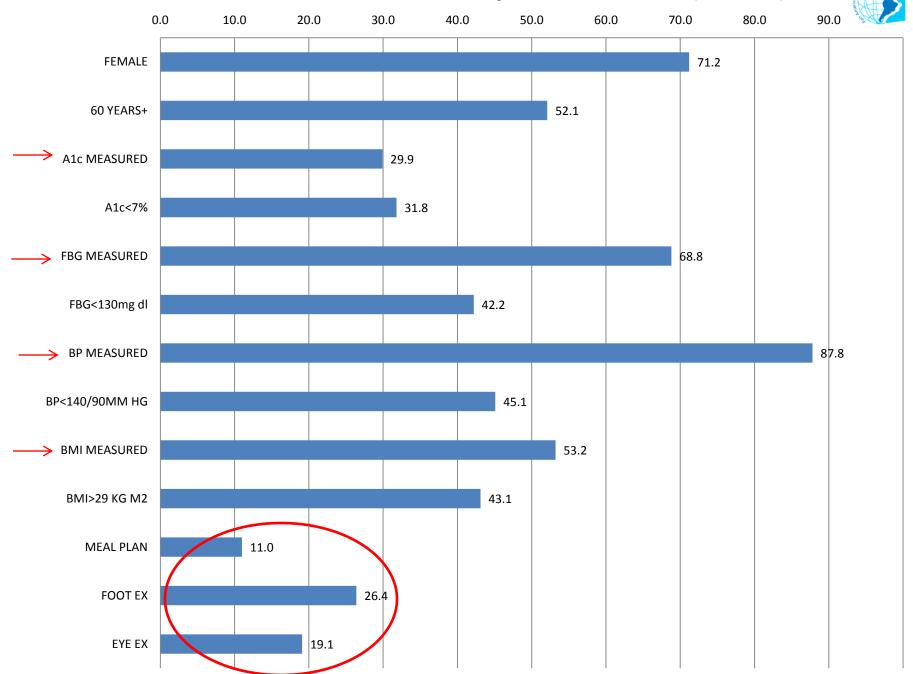




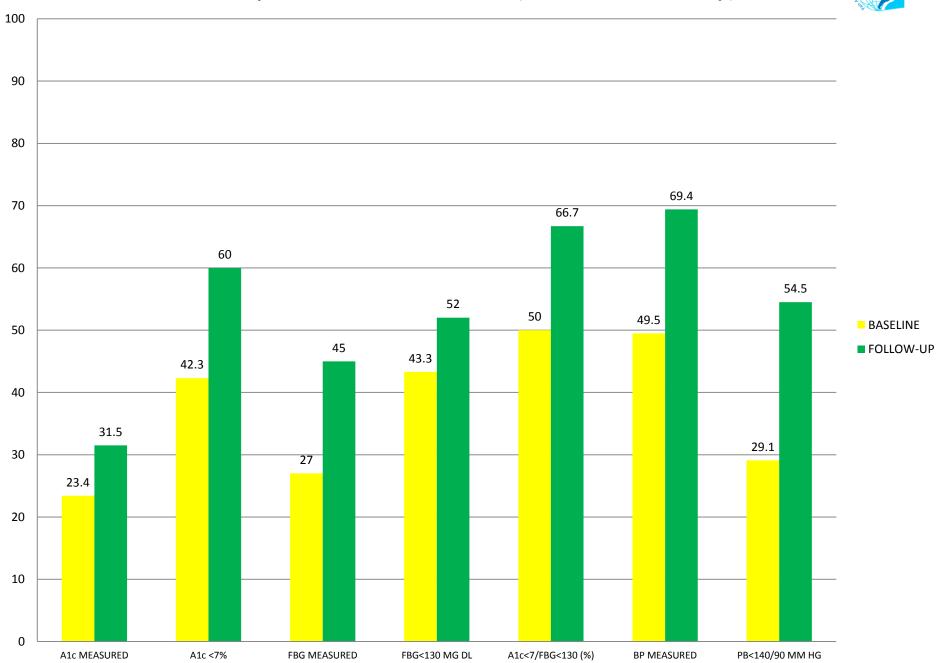


Chronic Care Passport in 8 Countries 1,063 patients randomly selected

Patient Characteristics & Quality of Care Indicators (n=1,063)



QI Improvement Indicators, n=111 (Baseline and Follow-up)





Quality of Care Project conclusions

- The Chronic Care Passport was useful in improving quality of diabetes care
 - Most indicators improved when compared follow-up to baseline
 - Still few patients get meal plans, foot or eye exams
- Use Planed visit & the Risk Pyramid to define visit frequency
- Define roles and responsibility among team members
- Prepare a Care Plan for patient-centered care
- Strengthen capacity for chronic disease management
 - Height, weight, BMI
 - Count calories, prepare meal plan
 - Estimate overall CVD Risk
 - Foot & Eye Exams for those with DM
- Include preventive services (Cancer) and counseling (tobacco, alcohol use, physical activity, healthy nutrition)
- Organize outreach program for patients at high risk

OVERALL CONCLUSIONS



- We have a very serious problem getting worse, especially obesity
- Cost wise, it is not sustainable especially low & middle income
- There are cost-effective solutions healthy public policy & health policy interventions for prevention and control
- Chronic care improvements needed, especially for secondary prevention, and prevention of expensive complications
- Universal health coverage is the #1 characteristic of high performing chronic care systems
- Many issues around implementation and sustainability; self-care critical
- Partnership with public, private and civil society needed

THANK YOU

MERCI BEAUCOUP

MUCHAS GRACIAS

