

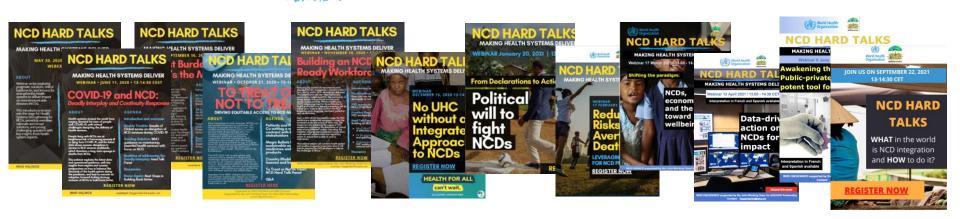








NCD HARD TALKS





Thank you for joining

- Interpretation available in French and Spanish
- This webinar will be recorded, and links to the recording and all slides will be shared.
- Please participate in the discussion by sharing your questions in the Q&A box. Experts are invited to type their answers throughout the session.
- General comments can be shared in the chat box.
- Please be respectful we are here to learn and exchange ideas.



Agenda



IOIN US ON SEPTEMBER 22, 2021 13-14:30 CET **NCD HARD TALKS** WHAT in the world is NCD integration and HOW to do it? REGISTER NOW

NCD HARD TALK SPEAKERS

Dr Bente Mikkelsen

Dr Cherlan Varghese Cross-cutting lead, NCD

Dr Viktoria Stein

Co-Founder and Co-CEO

VM Partners Integrating **Health and Care**

Department for Education

Norwegian Developmen

Joint Editor-In-Chief nternational lournal fo

Senior Adviser

and Global Health

Director, Department for

22 SEPT 2021 13:00 CEST

WHAT in the world is NCD integration and HOW to do it?





Associate Professor of Global Health and Social Medicine, Harvard Medica Lancet NCDI Poverty



Emma Feeny Director of Global Advocacy & Policy Engagement
The George Institute for



- Welcome
- Introductory remarks
- **Integration of NCDs**what do we mean?
- **Implementation Guidance on NCDs Services Integration**
- Hard Talk Panel
- Discussion and Q & A
- **Concluding remarks**

Introductory remarks

Dr Bente Mikkelsen

Director,

NCD Department, WHO





Moderator

Dr Temo Waqanivalu

Unit Head, Integrated Service Delivery

NCD Department, WHO





Integration of NCDs- what do we mean?

Dr Cherian Varghese

Cross-cutting lead

Noncommunicable diseases, WHO





Implementation Guidance on NCDs Services Integration

Dr Hongyi Xu

Integrated Service Delivery

Noncommunicable diseases, WHO







Implementation Guidance on NCDs Services Integration

Dr Hongyi XU, Technical Officer
WHO HQ/NCD/ISD Integrated Service Delivery

22 SEPTEMBER 2021
WHO NCD HARD TALKS: WHAT IN THE WORLD IS NCD INTEGRATION AND HOW TO DO IT?

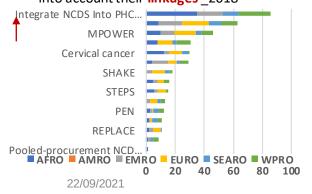
Background

WHY

2011, 2018 UN Political Declaration on NCDs

We commit to:

Integrate, as appropriate, responses to non-communicable diseases and communicable diseases, such as HIV/AIDS and tuberculosis, especially in countries with the highest prevalence rates, taking into account their **linkages** 2018



OBJECTIVE

 Maximize the impact of health services and extend access to NCD care.

Bangladesh, Haiti, Malawi, Nepal, and Tanzania: Very few facilities were fully "ready" to provide NCD service (Moucheraud, 2018)

South Africa: "I Just Wish That Everything Is in One Place": Facilitators and Barriers to Continuity of Care Among HIVpositive, Postpartum Women With a Non-Communicable Disease in South Africa (Clause, 2018)

SCOPE AND FOCUS

 Strategic considerations and practical solutions for integrating NCD services into other programmes and broader health systems through primary health care

Basis and Evidence

	WHO 3 levels working group consultation	Rapid qualitative systematic review *	Literature reviews and Case Studies	Expert group meeting	Appraisal thorough surveys	Public consultation	Others
Planning and scoping stage	٧						√Desk and scoping review
Key considerations (total 21): evidence base		٧	٧	٧	٧	V	VGrey literatures, field stories, WHO webinars including NCD hard talk series
Other narratives: programming, social determinants, contexts, adaptation, M&E	V		٧	V		V	vWHO existing source documents vExisting systematic review including meta- analysis
Guidance drafting, content and structure	٧			٧	٧	٧	vWHO small group

Deliverables

Finalizing

- Implementation considerations for integrating noncommunicable diseases into primary health care and other programme
- > Chapters:
- Annex 1. Case studies
- Annex 2. Methods
- Annex 3. Qualitative systematic review
- > Annex 4. Expert group meeting report
- Annex 5. Relevant WHO resources and tools

Drafts

- Integrated service delivery models (policy brief)
- Classification NCD service integration: understanding its use in LMIC

Country application entry points

- Start from existing partnership, diseases initiatives, to fix health system key pieces
- 2. Improve technology and infrastructure, resources management
- 3. Improve linkage of NCDs service to responses of specific diseases such as communicable diseases, maternal and child health
- 4. Empower community and people as part of solution
- 5. Develop and mature integrated service models

Message: key considerations

Domains	Consid	erations
People and	1.	Ensure community and patient involvement at all levels.
communities.	2.	Develop measurements and monitoring systems that are <u>patient-centred</u> .
Policy, leadership	3.	Provide policy directives for integration.
	4.	Create and support a transformation team for NCD service integration.
	5.	Align political, institutional and health systems, with the necessary resources.
	6.	Provide transformational leadership and change management.
Financing	7.	Ensure that funding is available for structural resources, software and service models.
	8.	Harmonize funding models and sources with national health plans and NCD service integration.
Models of care	9.	Assess health system functioning, strength and readiness for before integration.
	10.	Redefine and ensure that planned NCD service integration is compatible, acceptable, feasible and fits well with existing services.
	11.	Clarify the roles and functions of providers.
	12.	Engage with managers and providers throughout integration.
	13.	Ensure effective coordination, supportive supervision and mentoring.
	14.	Monitor the outcomes of NCD service integration for services, patients and the population, and conduct implementation research.
Resource and enablers	15.	Consider how best to use information and communication technology (ICT) systems for exchange of health information.
	16.	Build multidisciplinary NCD teams.
	17.	Provide comprehensive, tailored, flexible, interactive training in integration.
	18.	Provide training of providers in ICT, assess other technology for service integration
	19.	Provide adequate infrastructure for delivering integrated NCD care.
	20.	Ensure strong operational management and human resource development.
	21.	Develop strong procurement systems to meet the requirements of NCD integration.

WHO region	Country income level [4]							
	Low	Lower-middle	Upper-middle	High				
African Region (n=9)	Ethiopia, Malawi – NCDs in HIV Rwanda – Oncology in NCDs in hospitals	Cameroon – Diabetes and hypertension in facilities with no physician or clinician Kenya – HIV and SRH in hospital	Namibia – Anaemia and other NCDs in community care South Africa – HIV and NCDs in PHC					
	Sierra Leone – NCDs in health system Uganda – HIV, CDs and NCDs in							
	community care							
Region of the Americas (n=7)		Bolivia – Youth SRH in health system	Argentina – Cancer, heart disease and other in health system	Canada – Diabetes and other in health system				
			Brazil – Chronic conditions in PHC	Chile – Chronic conditions in PHC				
			Paraguay – Epilepsy and other in health system (telemedicine)	USA – Autism and mental health in PHC				
Eastern Mediterranean Region (n=6)	Afghanistan – NCDs in PHC in crisis, situation	Syrian Arab Republic – NCDs and mental health in PHC in a protracted	Islamic Republic of Iran – NCDs and cardiac rehabilitation in health system	Oman – NCDs in health system, COVID-19				
	Sudan – Rheumatic heart disease in child health and NCD programmes	emergency	Lebanon – Provision of medication for chronic diseases					
European Region			Albania – NCDs in PHC	Croatia – Chronic conditions in health system				
(n=10)	Case	Studies	Bulgaria – Chronic conditions of the elderly in home care Georgia – Rehabilitation in health system	Denmark – COPD and rehabilitation in home care (telemedicine) France – Stroke in health system				
				(telemedicine) Germany – Chronic conditions in				
				health system				
				Sweden – Chronic conditions of the elderly in health system				
				United Kingdom – Diabetes in health system				
South-East Asian Region (n=4)		Bhutan – NCD people-centred care India – Mental health in PHC	Thailand – NCDs in PHC					
		Nepal – Diabetes, hypertension and						

Relevant resources and tools

Category	Title	Links
WHO	Health interventions for Universal Health Coverage. 2020	https://www.who.int/universal-health- coverage/compendium
	Framework on integrated, people-sentred health services. 2016	https://apps.who.int/gb/ebwha/pdf_files/WHA69/A69_3 9-en.pdf
	Operational Framework for Primary Health Care. 2020	https://www.who.int/publications/i/item/978924001783
	Noncommunicable diseases: what municipal authorities, local governments and ministries responsible for urban planning need to know.2016	https://apps.who.int/iris/handle/10665/250228
	Strengthening NCD service delivery through UHC benefit package: technical meeting report. 2020	https://apps.who.int/iris/handle/10665/338690
	Strategizing national health in the 21st century: a handbook. 2016	https://apps.who.int/iris/handle/10665/250221
	Technical brief on Integrated health services – What and why 2. 2008	https://www.who.int/healthsystems/service_delivery_te_ chbrief1.pdf
	A system-wide approach to analysing efficiency across health grogrammes, 2017	https://apps.who.int/iris/handle/10665/254644
	Final report of the working group on the inclusion of NCDs in other programmatic areas for the WHO global coordination mechanism on the prevention and control of NCDs. 2018	https://apps.who.int/iris/handle/10665/312271
	Technical brief on Primary health care as an enabler for "ending the epidemics" of high-impact communicable diseases. 2018	https://apps.who.int/iris/handle/10665/326300
	Report on the regional meeting on strengthening the integration and management of noncommunicable diseases in primary health care. The WHO the Eastern Mediterranean .2014	https://applications.emro.who.int/docs/IC Meet Rep 2 014 EN 15646.pdf?ua=1
	Lessons from transforming health services delivery: compendium of initiatives in the WHO European Region. 2016.	https://www.euro.who.int/en/health-topics/Health- systems/health-services- delivery/publications/2016/lessons-from-transforming- health-services-delivery-compendium-of-initiatives-in- the-who-european-region-2016

Other useful tools or protocols or	Protocol-	https://pubmed.ncbi.nlm.nih.gov/30976456/
examples	A mixed methods study to adapt and implement integrated mental healthcare for children with autism spectrum disorder	
	Protocol-	https://www.qmu.ac.uk/media/6649/a-guide-to-clinic- ethnography-ruhf-march-2019.pdf
	Assessment of patient experience and service provision culture A Guide to Clinic Ethnography	etnnography-runt-march-2015.pdr
	Users questionnaire-	http://www.consorci.org/media/upload/arxius/publicaci
	Questionnaire for Care Continuity across Care Levels	ons/Questionnaire%20CCAENA%20English.pdf
	Measure patient experience (Survey)-	https://pubmed.ncbi.nlm.nih.gov/27250117/
	Development of a survey instrument to measure patient experience of integrated care	
	Measure service coordination (Survey)-	http://www.consorci.org/media/upload/arxius/publicaci
	Coordination between primary care, hospitals and long- term care services	ons/questionari COORDENA/COORDENA%20CAT%20Qu estionnaire EN.pdf
	Private sector-	https://www.who.int/publications/i/item/private-sector-
	Private sector landscape in mixed health systems	landscape-in-mixed-health-systems
	Example-	https://pubmed.ncbi.nlm.nih.gov/25578512/
	Characterizing the Use of Research-Community Partnerships in Studies of Evidence-Based Interventions in Children's Community Services	
	Example-	https://pubmed.ncbi.nlm.nih.gov/30760257/
	Acceptability and feasibility of delegating HIV counseling	
	and testing for TB patients to community health workers in the Philippines: a mixed methods study	

Integrating NCD service

A complex process

Addressing social determinants of health and increasing co- and multimorbidity

Integration in different settings and income levels

Tailoring the guidance to national and local contexts

Monitoring and evaluation, Implementation research

Acknowledgement

Q/A for the guidance, contribution towards appraisal through survey

xuh@who.int

Country application and support

waqanivalut@who.int oakala@who.int hogendorfm@who.int From Siloes to Synergies: Integrating NCD prevention and care into global health initiatives and UHC

Emma Feeny

Director of Global Advocacy & Policy Engagement

The George Institute for Global Health





From Siloes to Synergies: Integrating NCD prevention and care into global health initiatives and UHC

Emma Feeny, Director, Global Advocacy and Policy Engagement The George Institute for Global Health WHO NCD HardTalks, 22 September 2021





SETTING THE SCENE

NCDs: World's most prevalent diseases but not yet embedded in primary health care or universal health coverage

High prevalence of NCDs has increased mortality and morbidity in people with COVID-19

Major policy opportunity with inclusion of ground-breaking target in Political Declaration adopted at the HLM on HIV/AIDs

NCD Alliance commissioned report via The George Institute for Global Health, supported by Helmsley Charitable Trust

Methodology: Online survey (182 people), stakeholder consultation, literature review, and case studies from Kenya, Malawi and Zambia







FROM SILOES TO SYNERGIES:

Integrating noncommunicable disease prevention and care into global health initiatives and universal health coverage

Policy Research Report





FINDINGS – BARRIERS TO INTEGRATION

Old ways of thinking / political ambivalence

Staffing in silos: Cannot provide integrated, person-centred care

Weak health system organisation / capacity

Previous integration efforts not equitable, sustainable, or focused on disease prevention







WHY INTEGRATION WORKS: THE EVIDENCE

Integrated services have been shown to:

- Increase access to specialist care for underserved groups
- Increase retention in care and effectiveness for both HIV and NCD care streams
- Reduce the disease burden/impact of disease for those accessing HIV/NCD services
- Increase detection and diagnosis of NCDs among groups living with other diseases
- Increase user satisfaction and trust in services across a range of settings
- Be cost-effective (eg. gestational diabetes / regular MNCH services) more studies





For people living with HIV already attending AMPATH's clinics, incorporation of NCD services has been found to increase long-term adherence to care schedules and improve patient retention.







AMPATH:

Integrating HIV/AIDS and Diabetes Care in Western Kenya

LOCATION:

Eldoret, Kenya

TARGET POPULATION:

3.5 million people

IMPLEMENTATION PARTNERS:

Kenya Ministry of Health, Moi University, Moi Teaching and Referral Hospital, AMPATH Consortium of North American universities and health centres, led by Indiana University

FUNDING AND IN-KIND SUPPORT:

USAID, National Institutes of Health, US Centers for Disease Control and Prevention, Bill & Melinda Gates Foundation, AstraZeneca, Boehringer Ingelheim, Eli Lilly and Company, Merck, Pfizer, Takeda, The World Bank

HOW TO GET THERE

AMPLIFY VOICES: Put experiences of people living with NCDs centre-stage by involving them in design processes and giving a platform to share experiences

STRONGER RELATIONSHIPS: Buy-in among wide range of disease-focused stakeholders and communities will be key to sustainable integration efforts

PROGRAMME DESIGN: Integration is key in the design process, with strong vision for whole-of-person-care and people-centred health systems

STRONGER HEALTH SYSTEMS: Shift towards integrated data management systems, effective referral pathways, and a skilled workforce with supplies/medicines to respond to whole-of-person-



Links

Policy Research Report - From Siloes to Synergies: Integrating noncommunicable disease prevention and care into global health initiatives and universal health coverage | NCD Alliance

Brief for decision-makers - From Siloes to Synergies: Integrating noncommunicable disease prevention and care into global health initiatives and universal health coverage | NCD Alliance

Feedback welcome! nrenshaw@ncdalliance.org



FROM SILOES TO SYNERGIES:

Integrating noncommunicable disease prevention and care into global health initiatives and universal health coverage

Policy Research Report









THANK YOU

SHARE. DISCUSS. ENGAGE. CHANGE.



#NCDs @ncdalliance



MAKING NCD PREVENTION AND CONTROL A PRIORITY, EVERYWHERE

ncdalliance.org

Understanding NCD integrated service delivery and implementation strategies in LMICs

Dr Gene Bukhman

Associate professor of Global Health and Social Medicine, Harvard Medical School

Associate professor of Medicine, Brigham and Women's Hospital

Lancet NCDI Poverty Commission









Integration Science and NCD Service Delivery Optimization

WHO NCD Hard Talks • 21 September 2021

Gene Bukhman



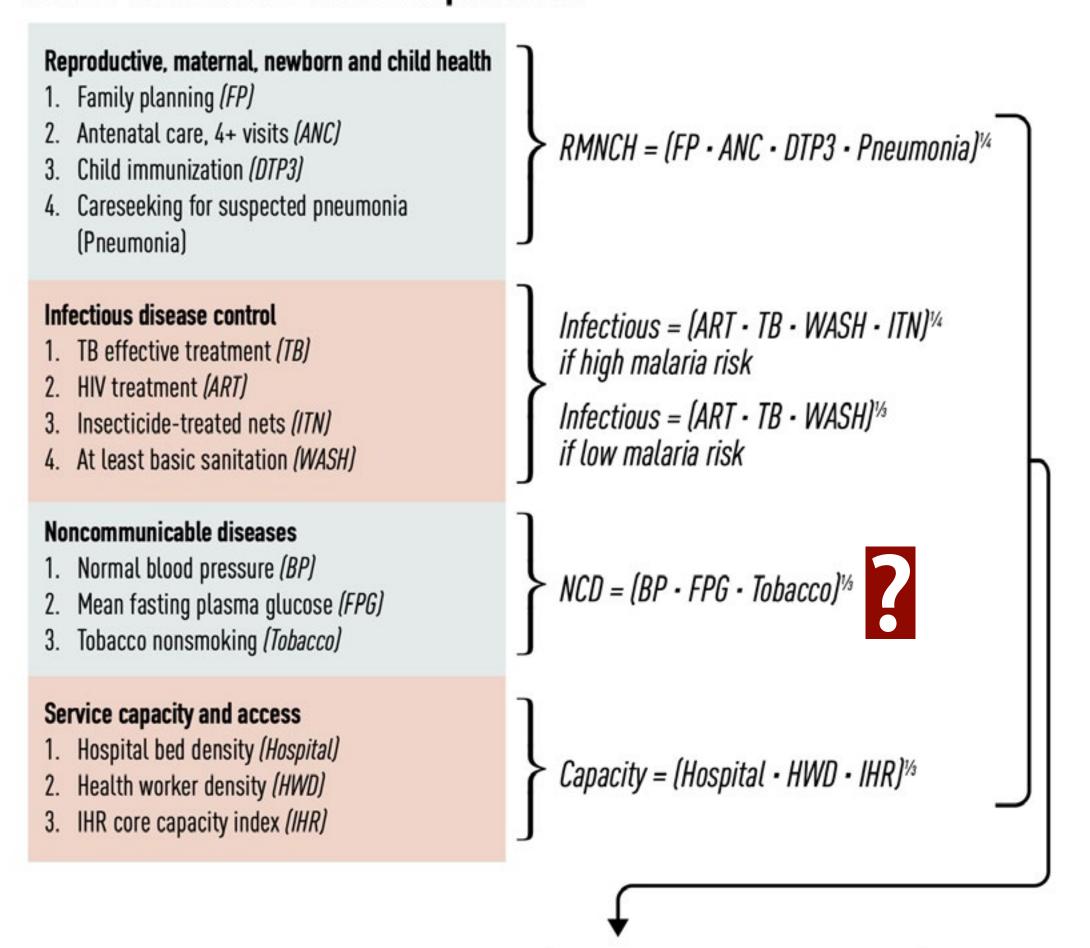






Primary Health Care on the Road to Universal Health Coverage 2019 GLOBAL MONITORING REPORT

FIGURE 1.1 The UHC service coverage index (SCI): summary of tracer indicators and computation



UHC service coverage index = (RMNCH - Infectious - NCD - Capacity)^{1/4}

Note: For more detail on UHC SCI calculation methods, see Annex A1.2.





Primary Health Care on the Road to Universal Health Coverage 2019 GLOBAL MONITORING REPORT

4. At teast pasic sallitation (NASII)

Noncommunicable diseases

- 1. Normal blood pressure (BP)
- 2. Mean fasting plasma glucose (FPG)
- 3. Tobacco nonsmoking (Tobacco)

Service capacity and access

FIGURE 1.1 The UHC service coverage index (SCI): summary of tracer indicators and computation

Reproductive, maternal, newborn and child health

- 1. Family planning (FP)
- 2. Antenatal care, 4+ visits (ANC)
- Child immunization (DTP3)

II LOTT IIIULUITU TION

4. Careseeking for suspected pneumonia (Pneumonia)

RMNCH = (FP · ANC · DTP3 · Pneumonia)^{1/4}

UHC service coverage index = (RMNCH - Infectious - NCD - Capacity)^{1/4}

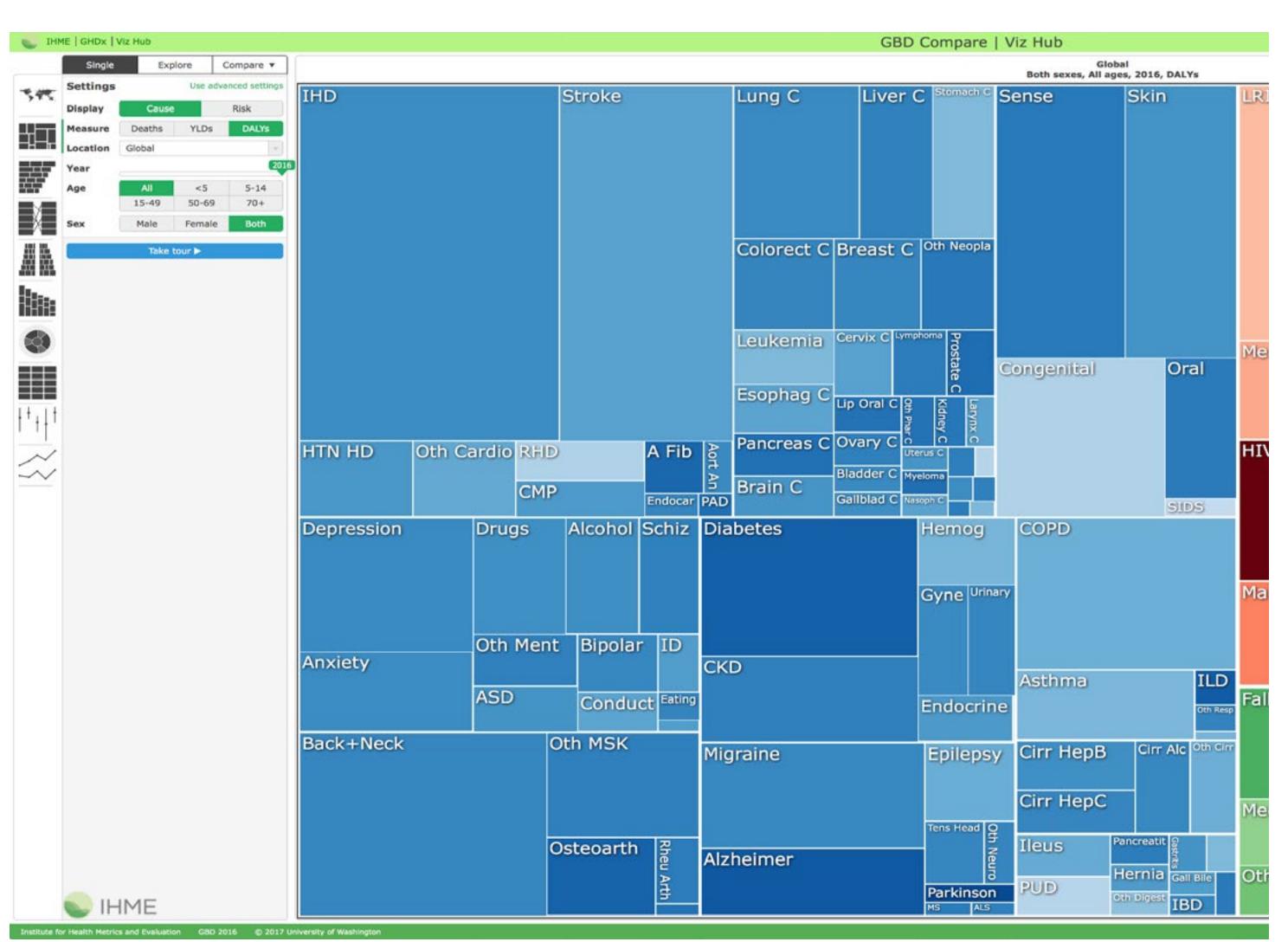
Note: For more detail on UHC SCI calculation methods, see Annex A1.2.



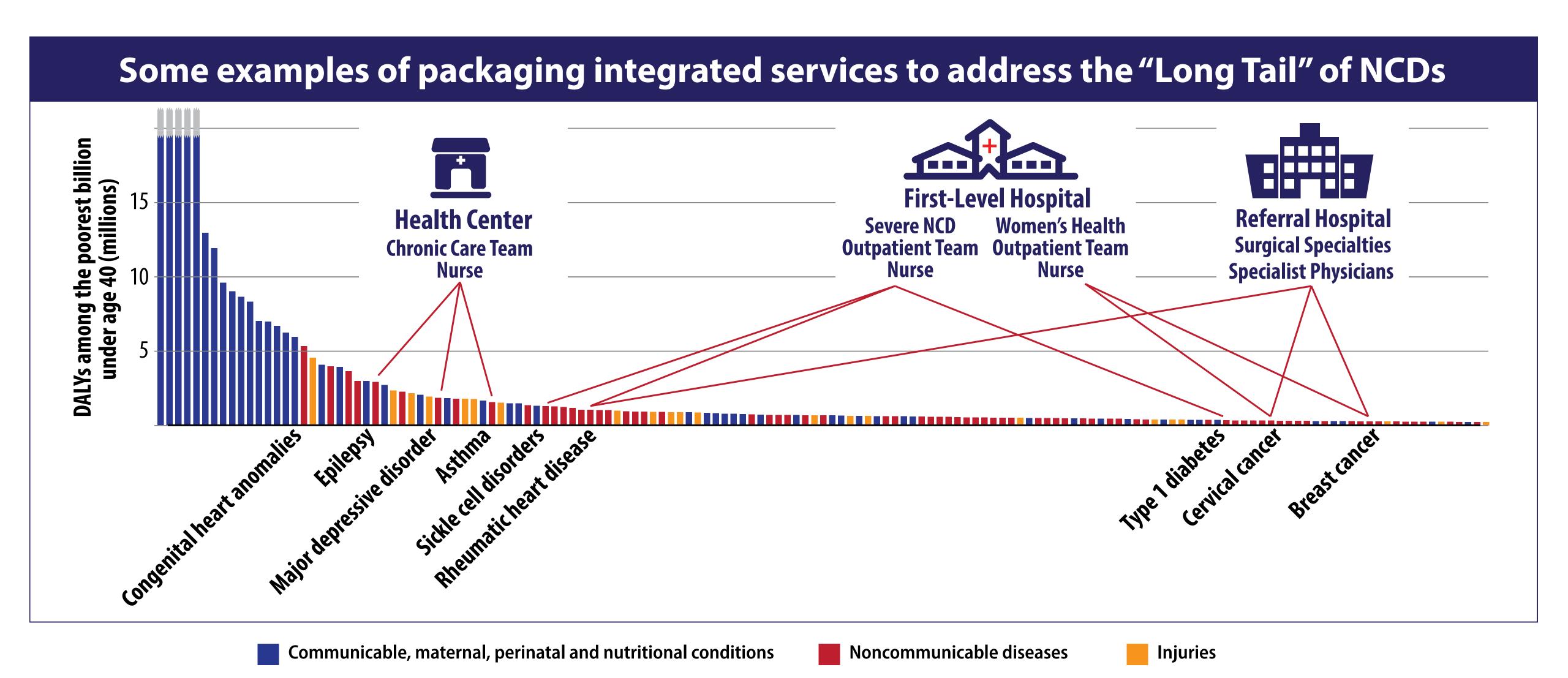


NCD(I)s in Global Burden of Disease include:

- CVD
- Neoplasms
- CRD
- Diabetes
- Endocrine
- Renal
- Gastrointestinal
- Musculoskeletal
- Mental, Neurological & Substance Abuse
- Sense organ
- Skin
- Congenital
- Hematological
- Oral
- Injuries









Principles of planning for the "long tail"

Some examples of packaging integrated services to address the "Long Tail" of NCDs

- Leverage
 inefficiencies in existing space and staffing
- Decentralize
 progressively
- Optimize clustering
 of related services around shared competencies





Examples of selected ICTs at different levels of the health system

Interventions prioritized by national NCDI Poverty Commissions* Additional highly equitable and cost-effective NCDI interventions** 88788 **Cause groups Referral Hospital** Mental, neurological, and substance abuse disorders Cardiovascular disease Cardiac surgery for children and young adults with rheumatic heart disease Diabetes Other and unspecified NCDs **Cardiothoracic Surgical Team** Cardiac surgery for children and young adults with correctable congenital heart disease Injuries Neoplasms Cross-cutting services (rehabilitation, palliative care) Chronic respiratory disorders Management of chronic myeloid leukemia requiring imatinib therapy Management of stable breast cancer requiring tamoxifen **First-Level Hospital** Inhaled corticosteroids and bronchodilators for severe, persistent asthma and COPD Medical management of chronic heart failure **Severe NCD Outpatient Team** Management of post-valve replacement patients requiring warfarin (PEN-Plus) Management of type 1 diabetes Management of advanced malignancies and other end-stage NCDs with pain and palliative care Combination therapy for individuals with moderate to severe rheumatoid arthritis Management of acute critical limb ischemia with amputation as a last resort Burr hole to relieve acute elevated intracranial pressure Relief of urinary obstruction by catheterization or suprapubic cystostomy Fracture reduction Appendectomy Irrigation and debridement of open fractures Removal of gallbladder, including emergency surgery Placement of external fixator and use of traction for fractures **General Surgical Care Team** Hernia repair, including emergency surgery Tube thoracostomy Colostomy Trauma laparotomy Management of bowel obstruction Trauma-related amputations Repair of perforations (e.g., perforated peptic ulcer, typhoid ileal perforation) Management of osteomyelitis, including surgical debridement for refractory cases Long term management of ischemic heart disease, stroke, and peripheral vascular disease Prophylaxis against bacterial infections and malaria for those with sickle cell disease **Health Center** Secondary prophylaxis with penicillin for rheumatic fever or established RHD Provision of harm reduction services to people who inject drugs Low-dose inhaled corticosteroids and bronchodilators for asthma and COPD Essential palliative care and pain control measures **Chronic Care Team** Screening and management of albuminuric kidney disease (PEN) Psychosocial support and counseling services for individuals with serious health problems and their caregivers Screening and management of diabetes among at-risk adults Provide iron and folic acid supplementation to pregnant women, Management of epilepsy, including long-term management with generic anti-epileptics as well as food/caloric supplementation to pregnant women in food insecure households Management of depression and anxiety with psychological and antidepressant therapy





Provisional definition of "integration science"

Integration science in global health delivery is the study of delivery model design, includihng optimal clustering of tasks among providers, and interfaces within and outside of the health system.

Integration science is the missing link between evidence-based interventions, health-sector priority setting, and implementation.





Toward a typology of integrated service delivery

Dimension	Types identified
Health system level	Community Health center Secondary level facility Outpatient Inpatient Tertiary level facility Outpatient Inpatient Specialty outpatient clinic
Urban or rural	Urban Rural Peri-urban Mixed
Scale	Single center Small to medium scale Large scale National Multi-country
Institution	Private Public Public (with external funding) Nongovernmental organization (NGO) Faith-based organization (FBO)
Integration type	New care delivery teams Description of existing delivery models Task redistribution within existing delivery models New conditions integrated into existing delivery models New services integrated into existing delivery models New conditions and services integrated into existing delivery models
Primary provider	Lay staff HIV counsellor Social worker Traditional healer Community health worker (CHW) Midlevel provider Generalist physician Specialist physician No primary provider Multidisciplinary team Multi-cadre team

D: •	
Dimension	Types identified
	Free
Patients' fee	Out of pocket
	Copay
Decentralization	No Yes
	Yes
Task shifting	No Yes
	Counter-referral
Linkage	Referral
	No No
Mobile	Yes (including community campaigns and mobile clinics)
	Part-time
Effort of primary provider	Full-time
Componentian of	Salaried
Compensation of	Fee-for-service
primary provider	Volunteer
	Health promotion
	Health education
	Screening
	Referral
	Initial diagnosis
	Adherence support
	Peer group facilitation
Service	Acute care
	Home based care
	Home based visits
	Psychotherapy Medication dispensing
	Patient follow-up
	Monitoring
	Medication management
	Common chronic noncommunicable diseases (NCDs)
	Severe chronic NCDs
	Common neuropsychiatric (NP)
	Severe NP
Condition category	Chronic infection
•	Acute infection
	Maternal and child health
	Conditions addressed through "primary health care"
	Sense organ





Number and percentage of <u>condition categories</u> included in study models stratified by health system level

Condition category	Community (N=53) n (%)	Health center (N=87) n (%)	Secondary level (N=29) n (%)	Tertiary level (N=26) n (%)	Specialty outpatient clinic (N=8) n (%)
Common NCDs	32 (60)	58 (69)	20 (69)	13 (50)	6 (75)
Severe NCDs	12 (23)	6 (7)	14 (48)	10 (38)	2 (25)
Common NP	15 (28)	33 (38)	5 (17)	5 (19)	2(25)
Severe NP	6 (11)	9 (10)	1 (3)	1 (4)	1 (13)
Chronic infection	15 (28)	19 (22)	6 (21)	7 (27)	0
Acute infection	6 (11)	2 (2)	0	2 (8)	0
Maternal and child health	9 (17)	8 (9)	3 (10)	2 (8)	0
Primary health care	2 (4)	25 (29)	4 (14)	0	0
Sense organ	1 (2)	0	0	0	0

	P
Legend	T
Legena	C
1-20%	L
1-20/0	S
21-40%	Н
	S
41-60%	P
61-80%	N
01-0070	n

Number and percentage of <u>service type categories</u> included in study models stratified by health system level

Service	Community (N=53) n (%)	Health center (N=87) n (%)	Secondary level (N=29) n (%)	Tertiary level (N=26) n (%)	Specialty outpatient clinic (N=8) n (%)	
Health promotion	20 (38)	5 (6)	3 (10)	1 (4)	0	
Health education	34 (64)	57 (66)	18 (62)	18 (69)	6 (75)	Legend
Screening	33 (62)	38 (44)	9 (31)	13 (50)	2 (25)	Legena
Linkage to care	37 (70)	54 (62)	14 (48)	13 (50)	2 (25)	1-20%
Initial diagnosis	4 (8)	45 (52)	18 (62)	6 (23)	0	
Adherence support	21 (41)	20 (23)	4 (14)	6 (23)	4 (50)	21-40%
Peer group facilitation	5 (9)	3 (3)	1 (3)	1 (4)	1 (13)	41-60%
Acute care	2 (4)	3 (3)	0	3 (12)	0	41-00 /0
Home based care	3 (6)	0	0	0	0	61-80%
Home visits	18 (34)	9 (10)	1(3)	2 (8)	0	04.4000/
Psychotherapy	4 (8)	11 (13)	2 (7)	5 (19)	1 (13)	81-100%
Medication dispensing	12 (23)	55 (63)	24 (83)	14 (54)	4 (50)	
Patient follow-up	11 (21)	48 (55)	18 (62)	12 (46)	5 (63)	
Monitoring	12 (23)	35 (40)	15 (52)	11 (42)	4 (50)	
Medication management	1 (2)	11 (13)	12 (41)	8 (31)	4 (50)	

Number and percentage of <u>primary provider categories</u> included in study models stratified by health system level

Primary provider	Community (N=53) n (%)	Health center (N=87) n (%)	Secondary level (N=29) n (%)	Tertiary level (N=26) n (%)	Specialty outpatient clinic (N=8) n (%)
Traditional healer	0	1 (1)	0	0	0
Community health worker	26 (49)	3 (3)	0	0	0
Lay worker (e.g. primary school teacher)	5 (9)	0	1 (3)	0	0
HIV counsellor	2 (4)	0	0	1 (4)	0
Social worker	1 (2)	0	0	0	0
Pharmacist	1 (2)	0	0	1 (4)	0
Midlevel provider (e.g. nurse, clinical officer)	5 (9)	35 (40)	14 (48)	8 (31)	1 (13)
Generalist physician	0	24 (28)	7 (24)	2 (8)	0
Specialist physician	0	0	1 (3)	2 (8)	2 (25)
No primary provider					
 Multi-disciplinary team 	1 (2)	5(6)	2 (7)	5 (19)	5 (63)
– Multi-cadre team	8 (15)	16 (18)	4 (14)	5 (19)	0
Not specified	4 (8)	2 (2)	0	0	0

Number and percentage of <u>integration types</u> utilized in each model stratified by health system level

Integration type	Community (N=53) n (%)	Health center (N=87) n (%)	Secondary level (N=29) n (%)	Tertiary level (N=26) n (%)	Specialty outpatient clinic (N=8) n (%)
New care delivery teams	16 (30)	19 (22)	7 (24)	8 (31)	2 (25)
Descriptions of previously existing delivery models	10 (19)	7 (8)	3 (10)	3 (12)	2 (25)
Task distribution within existing delivery models	1 (2)	6 (7)	2 (7)	2 (8)	0
New conditions integrated into existing delivery models	13 (25)	22 (25)	10 (34)	6 (23)	0
New services integrated into existing delivery models	6 (11)	19 (22)	3 (10)	4 (15)	3 (38)
New services and conditions integrated into existing delivery models	7 (13)	13 (15)	4 (14)	3 (12)	1 (13)
Not specified	0	1 (1)	0	0	0

Legend 1-10% 11-20% 21-30% 31-40%

Integration in practice: Experience in Malawi

Dr Beatrice Matanje

Medical Director,

Partners in Health/Abwenzi Pa Za Umoyo

Malawi site, Neno





Competencies required to implement integrated care

Dr Viktoria Stein

Co-Founder and Co-CEO

VM Partners Integrating Health and Care

Joint Editor-in-Chief, International Journal for Integrated Care





Where's the money? Donor perspective on integrated service delivery

Mr Austen Davis

Senior Adviser

Department for Education and Global Health

Norwegian Development Agency



MODERATED DISCUSSION/Q&A WITH OUR **PANELISTS**



Organization Noncommunicable Diseases

Concluding remarks

Dr Temo Waqanivalu

Unit Head, Integrated Service Delivery NCD Department, WHO





Thank you

Join us next month 13 October 2021

NCD Hard Talk: HOW COVID-19 HAS AFFECTED NCD CONTROL IN CITIES

See link in chat



