





Breakthrough ACTION Nepal/JHU-CCP/CDPH-IOM Data scoping exercise

14th February 2020



CDPH-Breakthrough ACTION Data Scoping Exercise

- 1. Data scoping
 - Prioritization activity
 - Desk review
 - Introduction to evidence maps
 - Findings
- 2. Next steps







CDPH-Breakthrough ACTION Data Scoping Exercise

- Supported by Breakthrough ACTION Nepal
- Conducted by students of MPH, MPHN, MHPE, CDPH, IOM (Kamal Raj Adhikari, Nabin Dhakal, Preena Lal, Preeti Bhattarai, Sapana Panta, Soniya Gurung, Sharmila Acharya, Sushma Pokharel)
- Duration- November 2019 to February 2020







CDPH-Breakthrough ACTION Data Scoping Exercise

Objectives

- To learn about Data Scoping exercise process
- To create search protocol for literature review
- To summarise findings and generate Evidence map
- To write technical briefs based on Evidence map
- To disseminate findings of Data Scoping exercise







What is data scoping?

A data scoping exercise reviews and maps a wide range of literature with the purpose of envisioning where gaps and innovative approaches may lie.







Goals of the data scoping activity

- 1. Guide future research and SBC health planning based on prioritized health issues/research questions
 - E.g. by creating evidence maps; developing analysis plans; identifying data sources to answer research questions; conducting simple data analyses
- 2. Identify opportunities for future research, collaborations, skills-building
 - E.g. Data dissemination for data use







Components of the data scoping activity

- 1. Identification of prioritized health issues and research questions
- 2. Desk review
- 3. Evidence maps
- 4. Data availability, sharing and use







1. Prioritization Activity

Identify health issue:

Non-communicable diseases and socio-behavioural risk factors

Identify research questions:

What are the socio-behavioural risk factors contributing to NCDs in Nepal?







Components of the data scoping activity

- 1. Prioritization of health issues and key research questions
- 2. Desk review
- 3. Evidence maps
- 4. Data availability, sharing and use







2. Desk review

- Methods: Literature review and data summary
 - Identify a list of key search terms
 - Identify a list of databases to use (PubMed)







("Nepal"[Mesh] OR Nepal*[tiab]) AND ("last 10 years"[PDat]) AND ("Non-communicable Disease"[Mesh] OR "NCD"[Mesh] OR "Chronic Disease" [Mesh] OR "Diabetes" [Mesh] OR "Blood Sugar" [Mesh] OR "Diabetes Mellitus" [Mesh] OR "Cardiovascular disease" [Mesh] OR "Hypertension" [Mesh] OR "High Blood Pressure" [Mesh] OR "Heart disease" [Mesh] OR "High Blood Pressure" [Mesh] OR "Coronary Artery disease" [Mesh] OR "Stroke" [Mesh] OR "Cerebrovascular accident" [Mesh] OR "Atherosclerosis" [Mesh] OR "Myocardial Infarction" [Mesh] OR "Cancer" [Mesh] OR "Carcinoma" [Mesh] OR "Malignancy" [Mesh] OR "Tumor" [Mesh] "Non-communicable Disease" OR "NCD"[tiab] OR "Chronic disease" [tiab] OR "Diabetes" [tiab] OR "Blood Sugar" [tiab] OR "Diabetes Mellitus" [tiab] OR "Cardiovascular" disease" [tiab] OR "Hypertension" [tiab] OR "High Blood Pressure" [tiab] OR "Heart disease" [tiab] OR "High Blood Pressure" [tiab] OR "Coronary Artery disease" [tiab] OR "Stroke" [tiab] OR "Cerebrovascular accident" [tiab] OR "Atherosclerosis" [tiab] OR "Myocardial Infarction" [tiab] OR "Cancer" [tiab] OR "Carcinoma" [tiab] OR "Malignancy" [tiab] OR "Tumor" [tiab])

("Nepal"[Mesh] OR Nepal*[tiab]) AND ("last 10 years"[PDat]) AND ("Obesity" [Mesh] OR "Risk factors"[Mesh] OR "Lifestyle"[Mesh] OR "Physical inactivity"[Mesh] OR "Diet"[Mesh] OR "Behavioral Barriers" [Mesh] OR "Tobacco use"[Mesh] OR "Alcohol consumption"[Mesh] OR "Obesity"[tiab] OR "Risk factors"[tiab] OR "Lifestyle"[tiab] OR "Physical inactivity"[tiab] OR "Diet"[tiab] OR "Behavioral Barriers"[tiab] OR "Tobacco use"[tiab] OR "Alcohol consumption"[tiab])







2. Desk review

- Methods: Literature review and data summary
 - Literature review
 - Peer-reviewed literature
- Inclusion criteria: We used articles published in the last <u>10</u> years and related to Non-communicable diseases and sociobehavioural risk factors <u>specifically</u> in Nepal







2. Desk review

• Data collection

	Abstracts retrieved
Pubmed; Search terms 1(743) + 2(979)	284
Total relevant with full-texts pulled	91
Total not relevant on initial review	193







2. Desk review: Data summarization

Content summarized				
Full reference				
Organization affiliated				
Publication type: peer-reviewed publication				
Specific geographical location(s)				
Study type: Qualitative, quantitative, or mixed methods				
Primary audience(s) or populations of interest				
Sample sizes				
Primary health areas of interest: NCDs; risk behaviours				
Specific health behaviors				
Primary predictors or explanatory variables of interest				
Specific SBCC intervention component discussed/described (if any)				
Major findings (Summarized in 1 sentence only)				
Relevant level(s) of the socio-ecological model: individual, household, community/societal, health facility, or				

structural/policy







2. Desk Review: Data summarization

Number	Reference	Geographical location(s)	Study type: Qualita	Primary audien	Sample sizes	Primary health area	Specific health behavio	Primary predictors or expl	ہ Specific SBCC in	t Major finding (Summa
1 NCD1	Tobacco smoking, chewing habits, alcohol drinking and the risk of head and neck cancer in Nepal Chun-Pin Chang, Bhola Siwakoti,	Chitwan, BPKMCH	Hospital-based Case-Control study		HNC cases- 549; Controls- 601	Head and Neck Cancer	Tobacco smoking; Chewing habits (Tobacco, Supari, Zarda, Lwang, Pan Masala); Alcohol drinking	Types, frequency and duration of Tobacoo smoking, Chewing habits and Alcohol drinking		Increased HNC risk for tobac 2.06), chewing habits (OR: 2. drinking (OR: 1.57; 95% CI: fraction (PAF) was 24.3% for
2 NCD2	Study of the magnitude of diabetes and its associated risk factors among the tuberculosis patients of Morang, Eastern Nepal; Babita	Morang	Cross-sectional study	Tuberculosis patients		Co-morbidity- Tuberculosis ad Diabetes; Behavioral factors- Alcohol and Tobacco	Toacco consumption;	Tobacco consumption, Alcohol consumption, Stress level; Family history		The univariate analysis report alcohol consumers, and stress with diabetes; while the multi alcohol consumer as the signi
3 NCD3	Analyzing Awareness on Risk Factors, Barriers and Prevention of Cervical Cancer among Pairs of Nepali High School Students and	Lalitpur	Descriptive Cross-sectional study	Adolescents; their	253 pairs of adolescent students and their mothers	Cervical cancer, Adolescent health, Reproductive health; Prevention	Lifestyle; Cancer talk with others	Sex, Education level, Healthy diet, Cancer talk with others, Mother's Cancer Screening Practice among students; Age,	Health Belief Model	Knowledge on cervical cancer students and mothers. Student and had a healthy diet had bet students' mothers had better k
4 NCD4	Prevalence of American Heart Association defined ideal cardiovascular health metrics in Nepal: findings from a nationally	Nepal	Cross-sectional study	Adult (15-69 years of age)	4200	Cardiovascular disease	Physical activity, smoking and the consumption of fruits and vegetables	ICH factors- four ideal health behaviours (non-smoking, normal weight, sufficient physical activity and ideal diet), and three ideal		More than half of the particip: 45–69 y age group having the females having better cardiov male counterparts (60.6% vs -
5 NCD5	Lifestyle-related risk factors among patients with coronary artery disease in Nepal Pramila Gaudel, Marja Kaunonen,	Kathmandu, Sahid Gangalal National Heart Centre	Cross-sectional study	CAD patients	224	Coronary artery disease (CAD)	physical activity, overweight	Lifestyle-related risk factors: Dietary habits, smoking, alcohol consumption, stress, physical activity, overweight or obesity		The prevalence of risk factors 97%, with stress being the mc consumption the least. The m lifestyle-related risk factors.
6 NCD6	The burden and correlates of multiple cardiometabolic risk factors in a semi-urban population of nepal: a community-based	Pokhara Vistoria ku	Community-based cross-sectional study	adults aged 25-64 years	2,310	Cardiometabolic risk factors (hypertension, diabetes, and overweight/obesity)	Dietary habits, smoking, alcohol consumption, physical activity	Socio-demographics and behavioural characteristics		Proportion of the participants harmful level (13%). Most of of physical activity (89%) but not consume the recommende
	Self-Care Adherence And Barriers	Kathmandu;					Self-care adherence and	Socio-Demographic; And		The poor glycaemic control w







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3. Evidence maps

- Evidence maps offer a visual way to examine trends and gaps in existing literature
 - Flexible
 - Can contain as little or as much detail as desired
 - Can be organized based on a specific theoretical approach







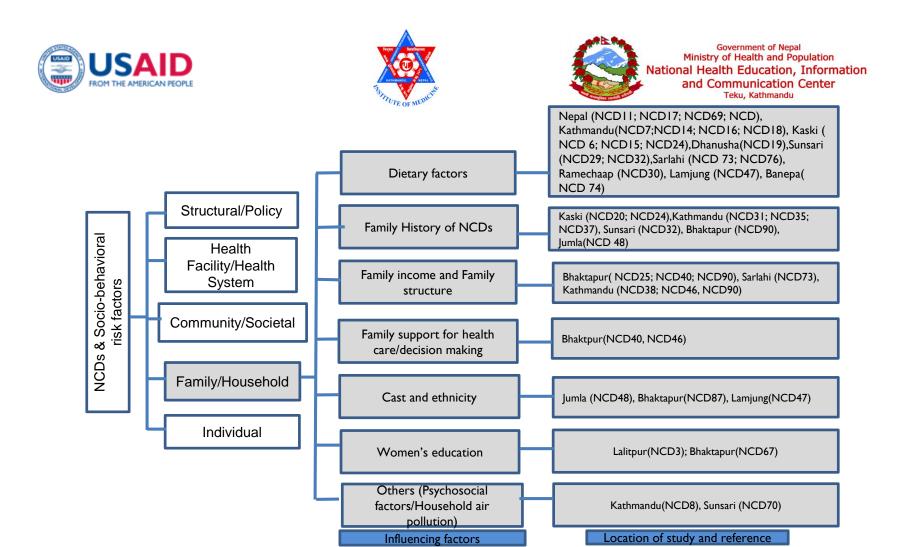






National (NCD 4,11,17,22,23,42,65,66,68,69,71,); Kathmandu (NCD

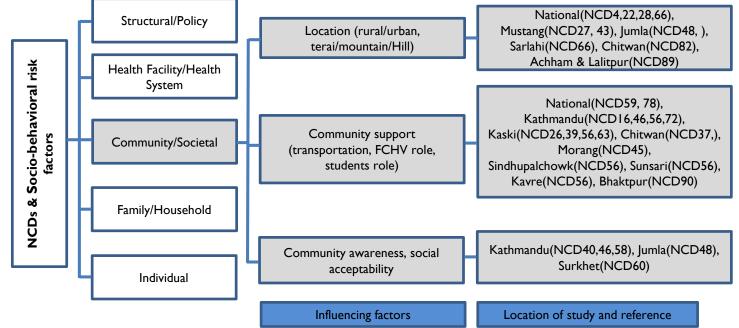
		Socio-demographic (age, sex, gender roles, marital status, education, occupation)	 Katoliai (NCD 3, 11, 11, 12, 13, 22, 05, 005, 06, 06, 05, 11, 17, 18, 18, 18, 13, 13, 13, 13, 13, 13, 13, 13, 13, 13
S	Structural/Policy Health Facility/Health	Risk behavior (alcohol use, tobacco use, substance abuse)	National (NCD4,11,17,23,65,66,68,69,); Kathmandu (NCD5,8,10,12,14,18,31,34,35,40,53,57,64,72); Bhaktapur(NCD44,51); Chitawan (NCD1); Morang (NCD2); Sunsari (NCD9,81); CDR (NCD79); EDR (NCD13,45,52); Kaski (NCD15,24,26,85); Lamjung (NCD47); Dhanusha (NCD19); Kavre(NCD61,74,75); Surkhet (NCD60); Sarlahi (NCD73)
k Socio- risk factors	Community/Societal	Individual food habit	National (NCD4,11,17,23,69); Kathmandu (NCD7,16,18,40,43,58,72); Bhaktapur(NCD 42); Chitawan (NCD1); Morang (NCD2); Lalitpur(NCD3); EDR (NCD29,32); Kaski (NCD 6,15,26,74); Lamjung (NCD47); Dhanusha (NCD19); Ramechhap (NCD30); Sarlahi (NCD76)
NCD's & So behavioral risk	Family/Household	Physical activity Use of healthcare services	National (NCD68); Kathmandu(NCD5,7,16,18,40,58,72); Bhaktapur(NCD 41,44,90); Chitawan (NCD1); EDR (NCD45); Kaski (NCD6,15,21,26,50); Lamjung (NCD47); Sarlahi (NCD73)
pe D	Individual		National (NCD54,71); Kathmandu (NCD 83); Kaski (NCD50) National (NCD54,71); Kathmandu (NCD38,58); Bhaktapur(NCD41,44);
		Knowledge/ Attitude	Chitawan(NCD1,37); Morang(NCD2); Lalitpur(NCD3,83,89); Sunsari(NCD9); EDR(NCD52; Kaski (NCD,26,50); Kavre(NCD 25,75); Jumla(NCD48); Surkhet(NCD 60)
		Pre-existing condition (Obesity, Stress and other clinical conditions)	National (NCD4,17,22,23,42,65,68); Kathmandu (NCD 5,7,8,10,12,14,16,18,31,34,35,49,53,55,57,64,84,88); Bhaktapur(NCD 41,44,51,90); Morang (NCD2); Lalitpur (NCD3); Sunsari (NCD29,81); CDR(NCD79); EDR (NCD33); Kaski (NCD6,20,24,26,36); Lamjung (NCD47); Ramechhap(NCD 30); Sarlahi (NCD73,76)
			Location of study and reference







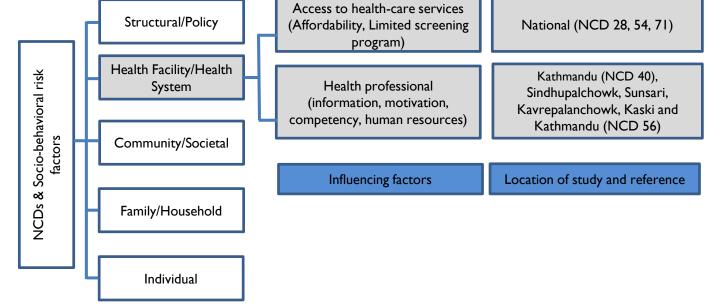


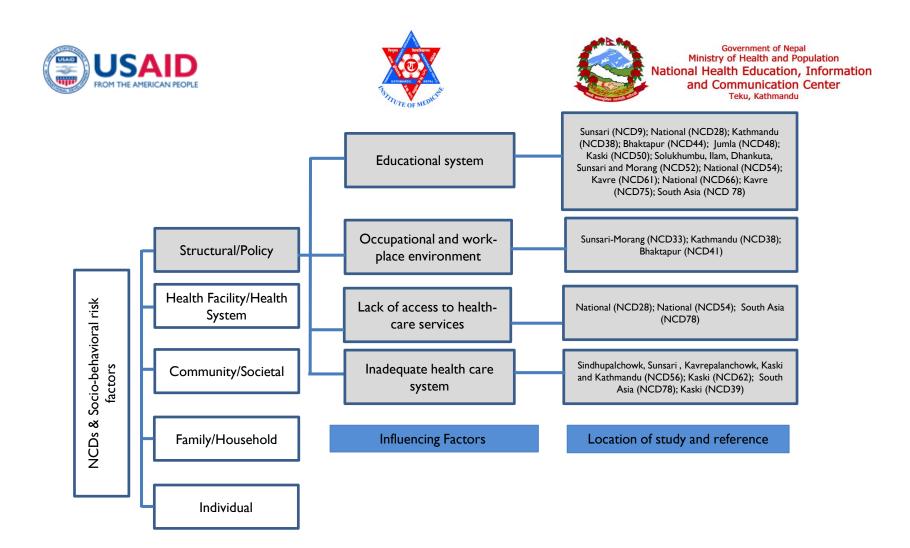












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4. Data availability, sharing and use







4. Data availability, sharing, and use

- -Technical or summative briefs
- -Platform or portal upload
- -Dissemination to relevant stakeholders for future SBC collaborations







Summary of Data Scoping exercise

- Majority of the studies were patient-centered and hospital based.
- Location of studies were mostly based on tertiarycare hospitals.
- Population-based studies were addressed by articles based on STEPS survey.













Thank you

