

Results Framework –National Cancer Control Programme

Expected impact

1.	5% Relative reduction of annual increase of cancer incidence rate of preventable cancers (Cervical and Oral), from the current level by 2025
2.	25% Relative Reduction of the premature mortality rate of cancers from the current level by 2025
3.	25% Increase of proportion of cancer patients who receive comprehensive palliative care services out of all cancer patients who require them by 2025.

Expected outcome:

1. Reduction of risky lifestyle and environmental factors which promote the development of cancers in Sri Lanka
2. Increased early detection of breast cancer and pre-cancerous cervical and oral lesions by screening methods
3. Increased detection of breast, cervical and oral cancers at stages I and II by screening methods
4. Increased early diagnosis of cancer among symptomatic patients
5. Increased early treatment as per treatment plans and follow up
6. Collection of accurate and timely data on cancer prevention and control interventions
7. Availability of sustainable, quality and accessible palliative care services at all levels

Impact indicators

	Impact Indicators	Baseline	Target	Means of verification	Responsibility	Frequency of data collection
	% reduction of incidence of common preventable cancers (cervical and oral)	2015	5% annually	SLCR /FHB	NCCP/FHB	Annual
	% reduction of premature mortality rate of cancers	2010	25% reduction by 2025	SLCR/PBCR RGD	NCCP	Every 2 years
	% of palliative care patients cared for, out of those referred from each treatment center	NA	25%	Return Cancer unit	NCCP	quarterly
	% of cancer deaths with access to palliative care	NA	25%	Special sample survey	NCCP	

Outcome & coverage indicators

	Indicators	Baseline	Target	Means of verification	Responsibility	Frequency of data collection
SD 2	%of current cigarette smoking among adults and out of school youth	2015		STEPS survey	NCD UNIT	Every 3-5 years
	% of current smokeless tobacco use among adults and out of school youth	2015		STEPS survey	NCD UNIT	Every 3-5 years
	Total alcohol per capita (APC) consumption among persons 15+ years of age within a calendar year in liter of pure alcohol					

	% of current alcohol use among adults	2015	10% reduction	STEPS survey	NCD UNIT	Every 3-5 years
	% of betel and areca nut chewing among adults and out of school youth	2015	30% reduction	STEPS survey	NCD UNIT	Every 3-5 years
	% of physical inactivity in adults	2015	10% reduction	STEPS survey	NCD UNIT	Every 3-5 years
	% of adults who consume 5 servings of fruits and/or vegetables per day	2015		STEPS survey	NCD UNIT	Every 3-5 years
	% of adults who are overweight and obese	2015		STEPS survey	NCD UNIT	Every 3-5 years
	% of adults who consume >5g of salt daily	2019		STEPS survey	NCD UNIT	Every 3-5 years
	% of school going adolescents who are not using tobacco	2016		GSBHS and GYTS	FHB	
	% school going adolescents who are not consuming alcohol	2015		SBT survey	FHB	
	% of school going adolescents who are physically active	2015		SBT survey	FHB	
	% of school going adolescents who consume 5 servings of fruits and/or vegetables per day	2015		SBT survey	NCD UNIT	
	% of school going adolescents who are not using tobacco	2015		SBT survey	NCD Unit	
	% of school children who are overweight & obese	2015		FHB data	NCD Unit	
	% households using solid fuel as the primary source for cooking	2015		STEPS survey	NCD Unit	
	% of population with primary reliance on clean fuels (Clean household energy)	2016				
	Air pollution levels in cities (Ambient air pollution 2.5µg/m ³)	2016				
	% of school girls aged 10 -11 who have had completed 2 doses of vaccination for HPV	66%	90%	Epidemiology Annual Report		Annual
	% of Under 1 completed vaccination for hepatitis B in the EPI	99%	100%	Epidemiology Annual Report		Annual

	Prevalence of hepatitis B among healthcare providers	2015	Less than 0.01 % Annually	Special survey Annual report	Epidemiology Unit	Annual
	Prevalence of hepatitis B among high risk groups??	2015	Less than 0.1 % Annually	Special survey / annual report	NSACP /Epidemiology Unit	Annual

SD3	% women in the 35 year cohort screened for cervical cancer	2019	80% end of 2023	FHB Annual Report	FHB	Annual
	% of women in the 35 year cohort who were detected with pre-cancerous lesions			FHB Annual Report	FHB	Annual
	% women in the 45 year cohort screened for cervical cancer	2019	60% 2023	FHB Annual Report	FHB	Annual
	% of women in the 45 year cohort who were detected with pre-cancerous lesions	FHB LOSHAN	FHB LOSHAN	FHB Annual Report	FHB	Annual
	% of cervical cancers diagnosed in the 35 and 45 year old cohorts (disaggregated by type and stage)			Pathology cancer registry		
	% of females 35-60 years diagnosed with cervical cancer (outside the WWC in secondary and tertiary level gynae clinics) among those screened in such institutions in the last 5 years	2019	80% end of 2023	Pathology cancer registries		Annual
	Percentage of stage I & II cervical cancers among all cervical cancer incidence cases (disaggregated by age, treatment centres & Mode of referrals)	Not available (NA)	70%	SLCR/PBCR	NCCP	Annual

	Number of newly diagnosed cervical cancer cases after a negative screening episode (interval cancer rate)					
	Number of HPV positive cases among all screened for cervical cancer	NA				
	% of primary, secondary and tertiary levels with referral pathways for cervical cancer					Annual
	% of women screened for breast cancer by CBE (disaggregated by age, screening centers) among women attending primary health care centers			FHB Annual report	FHB	Annual
	% women with breast abnormalities among those have had a mammogram (disaggregated by age, treatment centers)			Return from Mammography centers	NCCP	Annual
	Percentage of stage I & II breast cancers among all breast cancer incidence cases (disaggregated by age, treatment centres & Mode of referrals)	NA	70%	SLCR/PBCR	NCCP	Annual
	% of primary, secondary and tertiary levels with referral pathways for breast cancer			NCCP	NCCP	Annual
	Proportion of increase of OPMD from the baseline					
	%of districts that has achieved the annual target for OPMD/ oral cancer screening for adults at a higher risk for oral cancer			NCCP quarterly meeting reports	NCCP	Annual
	% of target group members (estate sector etc) screened for oral cancer among referrals					

	% adults detected with suspected oral lesions (sub-mucous fibrosis, leukoplakia, suspected cancer) out of the total first visits (disaggregated by clinic type –HLC/PMCI/dental clinic, age, sex)					
	% of adults diagnosed with oral cancer among all screened for oral cancer (disaggregated by age and sex)	2015	5% annually	SLCR	NCCP	Annual
	Percentage of Stage I & II oral cancers out of all oral cancer incidence cases (disaggregated by age, treatment centres & Mode of referrals)	NA	70%	SLCR/PBCR	NCCP	Annual
	% of primary, secondary and tertiary levels with referral pathways for oral cancer					
SD4	Number of suspected /diagnosed cases of breast, cervical and oral cancer referred to treatment centers (disease based comparison)	Not available		comparison of pathology based National cancer registry &HBCR	NCCP	Quarterly
	Proportion of individuals diagnosed of breast, oral and cervical cancers within three months out of the all the symptomatic and asymptomatic patients relevant to that cancer (disaggregated by age, sex, treatment centers, mode of referral)					Annual
	Proportion of cervical cancers diagnosed at Stage III/IV (disaggregated by age, treatment center, mode of referral)		30%	Special surveys/SLCR / facility surveys/reports from Tumor Boards/Reports		Annual

				from Technical Working groups		
	% of cervical cancer patients followed up in treatment centers as per plan among those needing follow up					Annual
	Proportion of breast cancers diagnosed at late stages (Stage III/IV) (disaggregated by age, treatment center, mode of referral)		30%			Annual
	% of breast cancer patients followed up in treatment centers as per plan among those needing follow up					Annual
	Proportion of oral cancers diagnosed at late stages (III and IV) (disaggregated by age, treatment center, mode of referral)		30%			Annual
	% of oral cancer patients followed up in treatment centers as per plan among those needing follow up					Annual
SD5	% patients received palliative care at each health service level among those referred from treatment centers					Quarterly
	Number of people who received community and home based care per district					Quarterly
	% deaths among patients receiving palliative care at each health service level					

Output indicators

SD2.1	Availability of a functioning National Social and Behavioral Cancer Communication strategy				NCCP	2021
SD2.2	Number of schools adhering to the health promoting school policy per district		As planned per annually action plan of FHB	FHB Annual report	FHB	Annual
	Number of work places adopting Health Promoting Settings per district		As planned per annually action plan of HPB	HPB Annual report	HPB	Annual
	Number of functioning healthy villages which address cancer prevention		As planned per annually action plan of HPB	HPB Annual report	HPB	Annual
	Number of hospitals /Province adopting Health Promotion Settings		As planned per annually action plan of HPB	HPB Annual report	HPB	Annual
	Number of estates in selected provinces with functioning Health Promoting settings		As planned per annually action plan of Estate and Urban Health Unit	EU UNIT Annual report	EU UNIT	Annual
	Number of estate workers referred for oral health examination					
	Number of community groups established to promote healthy behaviors per district					
SD2.3.1	Number of multimedia programs addressed second hand smoke			NATA/NCD/NCCP Annual report	NCD unit/ NCCP	Annual
	Availability of effective tobacco cessation (smoke and smokeless) hotline			NATA	NATA	NA

	Number of institutions with tobacco cessation (smoke and smokeless) services per district			NATA Annual report	NATA Annual report	Annual
	Number of HCW trained in tobacco cessation (smoke and smokeless) per district			NATA Annual report	NATA	Annual
	Number of cities with smoke-free environments			HPB/NATA Annual report	HPB/NATA	Annual
	Number of workplaces in major cities with smoke free areas			HPB/NATA Annual report	HPB/NATA	Annual
SSD 2.3.2	Availability of policies and regulations for import of areca nut and use			NCCP	NCCP	NA
	Number of education programs conducted for high risk groups per district					
	Number of mobile oral clinics conducted for OPMD/oral cancer					
SSD 2.3.3	Number of schools per district adopting canteen policy		As planned per annually action plan of FHB	FHB Annual report	FHB	Annual
	Number of workplaces per district adopting canteen policy			E&OH Annual report	E & OH	Annual
SSD 2.3.4	Number of physical activity programs conducted per school per district					
	Number of towns with a standard play area					
	Number of venues available for physical activity per district					
SSD2.3.5.	Number of cases filed against drunk drivers per year			Department of police	Department of police	Annual

	Availability of non- invasive methods to measure blood alcohol levels					
SD 2.4	Number of schools per district providing HPV vaccination		As planned per annually action plan of Epidemiology unit &FHB	FHB/EPID	FHB/Epidemiology unit	Annual
SD 2.5	Availability of indoor air quality guidelines and a policy to reduce air pollution			E&OHU Annual report	Environmental and occupational health unit	2021
	Number of cities monitoring air and water pollution			E&OHU Annual report	Environmental and occupational health unit	Annual
SD 3	Availability of a National Plan for Early detection of Breast Cancer		End of 2021	NCCP	NCCP	NA
	Availability of a National Plan for Early detection of Oral Cancer		End of 2021	NCCP	NCCP	NA
	Number of functioning WWCs which are catering 15,000 population			FHB Annual report	FHB	annual
	Number of Districts with mammography facilities		one per each district at the end of 2021	NCCP Annual report	NCCP	annual
	Number of colposcopy centers per district	11	24			

	Number of functioning cervical cancer screening centers at primary health care level per district with basic facilities (disaggregate by /WWC/ PMCI}			FHB Annual report	FHB	Annual
	Number of cervical cancer screening centers in secondary and tertiary level (Gynae clinics) hospitals per district			Provincial Director's Annual Report	Provincial director of health services	annual
	Number of women screened for cervical cancer in STD/HIV clinics and NCCP (disaggregated by age, abnormalities)					
	Number of centers carrying out Clinical Breast Examination per district (disaggregate by HLC/WWC/ PMCI)			FHB/NCD/NC CP Annual report	FHB/NCD/NCC P	Annual
	Number of oral cancer screening centers per district (disaggregate by HLC/ PMCI)			NCD/IOH/NCC P	NCD/IOH/NCC P	Annual
SD 4.1	Number of functional Center of Excellence		9		NCCP & PDHS	
	Number of satellite secondary and tertiary level treatment centers able to provide treatment for cancer breast, cervix and oral as per the stratified guidelines	NA	NA	Treatment center returns	NCCP	Annual
	Number of COE providing paediatric cancer care	1 CENTER	4 centers	SPECIAL SURVEY	NCCP	BY 2024
	Number of treatment centers with SOP/guidelines /Protocols for shared care pathways of common adult and pediatric cancers	NA	Availability	Availability of guidelines endorsed by Secretary Health	NCCP	Annual

	Functioning technical sub-committees for radiation safety, laboratory & diagnostic pathology, diagnostic radiology, and treatment (meet at least twice a year) – Yes/No	NA	2 meetings held by each sub-committee / year	Annual report of the NCCPA	NCCP	Annual
	Number of treatment centers with functioning Tumor Boards	NA	Availability of all COE & 25% OF Satellite centers	Facility survey / Treatment center returns	NCCP	Annual
	Number of treatment centers with functioning Multidisciplinary teams	NA	Availability of all COE	Facility survey / Treatment center returns	NCCP	BY END OF 2021
	Number of treatment centers per province with day treatment units	NA	80%	Facility survey/ Treatment center returns	NCCP & PDHS	BY END OF 2024
	Number of patients getting day treatment disaggregated by age, sex, type of cancer, treatment center			Facility survey/ Treatment center returns	NCCP	Annual
	Proportion of treatment centers with oncology essential medicinal drug list for adults and children	NA	90%	MSD Records / Treatment center returns	MSD/ NCCP	BY END OF 2024
	% of cancer treatment centers with no essential drug stock-outs during the year	NA	90%	MSD Records/ Treatment center returns	MSD	End year review
	% of treatment centers linked to the Regional/Central MSDs and NCCP	NA	Availability	MSD Records /Treatment center returns	MSD	Annual

	Availability of tele medicine facilities at center of excellence and satellite centers	NA	9 CoE and 50% of satellite centers	NCCP Records/ Treatment center returns	NCCP & PDHS	
SD 4.2	Number of satellites treatment centers following stratified SOP /guidelines /Protocols on diagnostics	NA	Availability	NCCP Records	NCCP	BY THE END OF 2024
	Number of centers per province with availability(Analog/digital) of functioning mammography	-----	One per Districts	NCCP Records	NCCP	BY THE END OF 2024
	Number of treatment centers with Quality Assurance systems (Laboratory, Radiology)		Availability	NCCP Records	NCCP	BY THE END OF 2024
SD 4.3	Genetic Marker testing available at Apeksha Hospital & NHSL	Not Available	Availability at NHSL	NCCP Records	DDG/Laboratory services	BY THE END OF 2024
	Number of SPECT scan facilities available in the country	Not Available	Availability	NCCP Records	Additional secretary development	BY THE END OF 2024
	Number of PET scan facilities available	1	4 Numbers	NCCP Records	Additional secretary development	BY THE END OF 2024
SD 4.4	Number of CoE with SOP /guidelines /Protocols following updated treatment pathways for adults and children	0	9	Facility survey	NCCP	
	Number of satellites treatment centers following stratified SOP /guidelines	0	All 24	Special surveys	NCCP	

	/Protocols for treatment and care for adults and children					
	Availability of central Radio- Pharmacy		1			2023
	Number of LA with CT stimulators in place	5	18	Facility Survey	NCCP & PDHS	
	Number of Internal Radiotherapy machines functioning	3	9	Facility Survey	NCCP & PDHS	
	Number of treatment centers with Onco-surgical support	9	9	Facility Survey	NCCP	
	Number of Stem cell centers functioning	Not available	1	Facility Survey	National Blood transfusion Service	
	Number of treatment centers with Radiologists specialized in Nuclear Medicine	0	4		PGIM / Ministry of Health	
SD 4.5	Number of provinces with functioning laser treatment facilities for oral cancers	4	9	SPECIAL SURVEY	Additional secretary Medical services	
	Number of functioning radioiodine treatment centres	4	9	SPECIAL SURVEY	Additional secretary Medical services	
	Number of patients who have had reconstructive surgical care for breast cancers among all breast cancer patients (new and old) disaggregated by age, stage of cancer, treatment center	NA	NA			

	Number of patients who have had reconstructive & rehabilitation surgical care for oral cancers among all oral cancer patients (new and Old) disaggregated by age,sex, stage of cancer, treatment center,	NA	NA			
SD 4.6	% CoE with Radiation safety-officers		9	Special survey	Additional secretary Medical services	
	National Guideline on cytotoxic and radiation safety and management is available	Not available	Availability		NCCP	
	Number of cancer treatment centres with Iron chambers to monitor the dose of radioactive iodine	0	9		Additional secretary Medical services	
	Number of cancer treatment centres with SOPs for laboratory safety and waste disposal of clinical waste	0	9		Additional secretary Medical services	
	Number of cancer treatment centres with a trained safety officer for cytotoxic drugs	0	9		Additional secretary Medical services	
SD 4.7	National strategic Plan for pediatric cancer prevention, treatment & care available	NA	Availability	NCCP	NCCP	2021

	Number of CoE with SOP /guidelines /Protocols following updated treatment pathways for children	NA	Availability	NCCP	NCCP	2024
	Number of satellites treatment centers following stratified SOP /guidelines /Protocols for treatment and care for children			NCCP	NCCP	2024
SD 5.1	% of patients with survivorship plans disaggregated by treatment centers	NA	75%	Sample survey HBCR	NCCP	annually
	% of patients assessed for rehabilitation care out of all cancer patients and referred	NA	75%	Sample survey HBCR	NCCP	annually
	% treatment centres providing psychosocial support for patients	/??	75%	Facility survey	NCCP	annually
SD 5.2	Availability of guidelines on establishment and functioning of palliative care units at each levels of care (including home based care)	0	100%	Facility survey	NCCP	
SD 5.3	Number of training programs held in palliative care for private hospitals, hospices, CSOs and families	NA	At least 1per year for each setting	MIS	NCCP	annually
	Number of medical officers/GP trained in palliative care	NA	100 per year	MIS	NCCP	annually
SD5.4	Number of patients having a trained family member out of all patients who need palliative care (disaggregated by district)	NA	50%	Sample survey	NCCP	

	Number of PHNO who is able to provide palliative care per district	NA	10 per district	MIS	NCCP	
	Proportion of PMCIs with a community care giver support group					
SD 5.5	% of treatment centers have had a continuous supply of palliative care essential drugs throughout the year	NA	100%	MSD	NCCP	
	Consumption of strong opioids per cancer death					
	Consumption of strong opioids per capita					
SD 6	A functioning SIM unit with TOR established	2021				
	A comprehensive Sri Lanka Cancer Registry available capturing data from all sources	2021				
	e-MIS functioning at NCCP					
SD 7	Research committee functioning					Quarterly
	Annual research conducted					Annual
	Number of research published					Annual
	Availability of data on effective interventions					Annual