The United Republic of Tanzania



Ministry of Health and Social Welfare

National Cervical Cancer Prevention and Control Strategic Plan

2011 - 2015

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Acronyms and Abbreviations

ACCP Alliance for Cervical Cancer Prevention

ADs Auto-Disable Syringes

AEFI Adverse Events Following Immunization

AGOTA Association of Gynecologists and Obstetricians of Tanzania

AIDS Acquired Immunodeficiency Syndrome
AMREF African Medical and Research Foundation

ASR Age Standardized Incidence Rate

CBO Church Based Organization

CCHP Council Comprehensive Health Plans
CHMT Council Health Management Team
CIN Cervical Intra-Epithelial Neoplasia

CMS Central Medical Stores

DHMT District Health Management Team

DMO District Medical Officer

DTP Diphtheria, Pertussis, Tetanus, Hepatitis B and Haemophilus influenzae b

EPI Expanded Programme on Immunization

FBO Faith Based Organizations

GAVI Global Alliance on Vaccines and Immunization

GoT Government of Tanzania

DPG Development Partners Group for Health

HepB Hepatitis B

KCMC

Hib Haemophilus Influenzae type b HIV Human immunodeficiency Virus HPV Human Immunodeficiency Virus

HPV DNA Human Papillomavirus Virus Deoxyribonucleic Acid

Kilimanjaro Christian Medical College

HMIS Health Management Information System

HSSP Health Sector Strategic Plan

ICAP International Centre for AIDS Control and Treatment Programs

ICC Interagency Coordinating Committee
IEAE International Atomic Energy Agency

IEC Information, Education and Communication

LEEP Loop electrosurgical excision procedure
LGA Local Government Administration
MAT Medical Association of Tanzania

MEWATA Medical Womens Association of Tanzania MOEVT Ministry of Education and Vocational Training

MTEF Mid Term Expenditure Framework
MOHSW Ministry of Health and Social Welfare

MNH Muhimbili National Hospital MSD Medical Stores Department

MUHAS Muhimbili University of Health and Allied Sciences

NACP National AIDS Control Program

NCCPC National Cervical Cancer Prevention and Control

NPERCHI National Package of Essential Reproductive and Child Health

Interventions

NGO Non Governmental Organization
ORCI Ocean Roads Cancer Institute
PACT Program for Cancer Therapy
PLHIV People Living with HIV

PLWHA People Living with HIV/AIDS RCH Reproductive Child Health

RHMT Regional Health Management Team

TOT Training of Trainers

TPHA Tanzania Public Health Association

UNAIDS United Nations Joint Program on HIV and AIDS

UICC Union of International Cancer Control
UNICEF United Nations Children's Fund

VIA Visual inspection with acetic acid
VILI Visual inspection with Lugol's iodine
VMA Vaccine Management Assessment
VPD Vaccine Preventable Diseases

VVM Vaccine Vial Monitor

WHO World Health Organization YFS Youth Friendly Services

Foreword

Cervical cancer is the most common cancer in Tanzania, and is the leading cause of cancer related morbidity and mortality in women in the country. In 2009, cervical cancer accounted for more than a third of all cancer patients seen at the ORCI, the only specialized facility for cancer management in the country (ORCI, 2009). Furthermore, the vast majority of cervical cancer patients are usually seen only at a late stage of evolution of the disease, which reduces considerably the chances of survival.

The problem is compounded by the HIV/AIDS epidemic in sub-Saharan Africa, which equally affects Tanzania. Being HIV positive, increases the risk of developing cervical cancer, by at least 50%. In addition, HIV-positive women in Tanzania, also develop cervical cancer 10 years earlier than HIV-negative women (Kahesa 2008). With an HIV prevalence rate of 6.8% in 2007 being women aged 15–49, has significant implication for any public health intervention, attempting to address the burden of cervical cancer.

The links between cervical cancer and Human Papillomavirus (HPV) infections have been well established. With the existence of new and highly efficacious vaccines against HPV, and the existence of effective screening methods for early detection, cervical cancer could practically be eliminated, if the right strategic approaches were developed and implemented. In addition, early detection and treatment of precancerous lesions coupled with early treatment of cervical cancer, increases the chances for complete cure.

Developing and implementing a national cervical cancer prevention and control strategy, will be a major challenge for Tanzania. These challenges include limited finances, and shortages of trained staff, as well as, limited human and material resources to procure the new vaccine and screening tests, train and deploy the necessary staff, as well as strengthening the health infrastructure to screen, diagnose, and treat cervical cancer patients. However, over the last 2 years, the highest political leaders in the country have expressed a strong desire to tackle the issue. Strong partnerships with international organizations, non-governmental organizations and the private sector, offer a great opportunity to develop and undertake the implementation of a comprehensive national cervical cancer prevention and control (NCCPC) program.

Several initiatives to address cervical cancer prevention, care and treatment, have started in Tanzania, over the last several years. These initiatives are still scattered and need to be consolidated in a National Implementation Plan. They will serve as building blocks, to expand screening services, vaccination, care and treatment to the whole country.

The strategic plan has been developed with the participation of many partners, including government services, international organizations, non-government organizations working in Tanzania and private partners. Development of this plan is in line with the Health Sector Policy 2007. MMAM and HSSP 3.

The plan strategically has been built around three pillars:

- Primary prevention, including behaviour change and vaccination of adolescent girls before they become sexually active. Tanzania has opted to vaccinate girls in Primary School Standard 4.
- Screening of women aged 30 to 49 years and treatment of HPV and the precancerous lesions
- Diagnosis, care and treatment including palliative care for cervical cancer patients

These three pillars will be supported by

- A foundation of a strong health system
- An Information, Education and Social Mobilization strategy
- A monitoring and evaluation plan

An advocacy and social mobilization campaign to build support for the program, has already started, led by the President of Tanzania. MEWATA will be a major stakeholder on this aspect of the program. The Ministry of Health and Social Welfare is aware of the challenges, but existing opportunities, strong political will, and effective partnerships will help to overcome these challenges.

Regina L. Kikuli

Ag. Permanent Secretary Ministry of Health and Social Welfare

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Dr. Donan W. Mmbando

Ag. Chief Medical Officer

Ministry of Health and Social Welfare

Chapter 1. Background information

1.1. Global Epidemiology of Cervical Cancer

Cervical cancer continues to be among the leading devastating causes of death among

women in the world, and more so in Sub-Saharan Africa. Most recent estimates released in 2010 by WHO International Agency for Research on Cancer (IARC) suggest that each year there are more than a quarter of a million deaths from cervical cancer and over 530,000 new cases, most of which could be World (REF). The prevented Health Organization (WHO)

Cervical cancer is the third most common cancer in women, and the seventh overall, with an estimated 530 000 new cases in 2008. High-risk regions are Eastern and Western Africa (ASR greater then 30 per 100,000), Cervical cancer remains the most common cancer in women only in Eastern Africa, South-Central Asia and Melanesia. Overall, the mortality: incidence ratio is 52%, and cervical cancer is responsible for 275 000 deaths in 2008, about 88% of which occur in developing countries: 53 000 in Africa, 31 700 in Latin America and the Caribbean, and 159 800 in Asia.

GLOBOCAN 2008 Cancer Fact Sheets:

projects that without immediate action the global number of deaths from this disease will increase by nearly 80% by 2030, mostly in low- and middle-income countries. More than 85% of the global burden of cervical cancer occurs in developing countries, where it accounts for 13% of all female cancers. WHO projects cervical cancer deaths will rise to 320,000 in 2015 and 435,000 in 2030. (WHO 2007).

According to Globocan, Sub Saharan Africa is a home to the more than a 20% of a million women who die annually from cervical cancer, with highest burden in the Eastern Africa region (fig 1). On the occasion of World Cancer Day, the IARC, the Cervical Cancer Action (CCA) coalition and the Union of International Cancer Control (UICC) called for the implementation of comprehensive strategies to reduce cervical cancer. Research indicates that 96 to 99% of cases of invasive cervical cancer are associated with HPV infection.

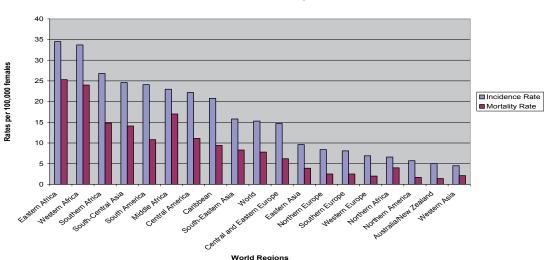


Fig. 1 World Age-Standardized Incidence and Mortality Rates per 100,000 Population, Females, World Regions

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1.2. Human papillomaviruses and Cancers

either through genital-genital contacts; manual-genital or oral-genital. Condom use may help to reduce the risk, but is not fully protective as other genital areas may not be well covered by condom. Non-sexual routes of HPV transmission which are quite rare include mother to newborn transmission (vertical transmission)¹. Some researches also suggest that genital HPV can be transmitted through nonsexual routes, via fomites - inanimate objects such as towels or underwear - but more research is needed (Carson, 1997; Keller, et al., 1995; Stevens-Simon, et al., 2000)..

Following the natural history of HPV Infection, large majority of high risk HPV infections (70-90%) would clear within one to two years of the onset of the infection.

Persistent infection with a high risk type of HPV is crucial for the development of precancer and cancer of the cervix. There is currently no antiviral available to treat the underlying HPV infection. Within a few months to five years of initial infection the continuing infection can lead to cervical intra-epithelial neoplasia (CIN stage 1, 2 or 3), which in 3 to 5% of cases will develop into an invasive cervical cancer. CIN is also termed as pre-invasive disease. It

Risk factors for HPV infection by gender[REF]
Women
Young age (20-24 years of age)
Number of sex partners
Early age of first sexual intercourse
Male partner with multiple sexual partners
Smoking
Oral contraceptive use
Uncircumcised male partners
Men
Young age (25-29 years of age)
Number of sex partners
Being uncircumcised

usually takes 10-20 years for invasive cancer to develop; this means that cervical cancer control is possible through screening and treatment of pre-invasive conditions (WHO, 2006).

1.3. Comprehensive Cervical Cancer Prevention and Control

According to WHO, there are four basic components of cervical cancer control, which encompasses primary prevention, early detection through increased awareness and organized cervical cancer screening programmes; diagnosis and treatment; and palliative care for advanced disease. **Primary prevention** encompasses prevention of HPV infection and cofactors that are known to increase the risk of one developing cervical cancer. This includes mass education and awareness-raising addressing high-risk sexual behaviours as well as discouraging use of tobacco and smoking. Primary prevention is more effective with use of HPV vaccine. HPV vaccines have recently been added to primary prevention strategies. Currently WHO encourages introduction of HPV vaccines in low-resource settings to be integrated in national immunization programs. Two major types of vaccine are now recommended i.e. Gardasil® a quadrivalent vaccine against HPV genotypes 6, 11, 16 and 18 and Cervarix® a bivalent vaccine against genotypes 16 and 18.

Early detection refers to well-organized cervical cancer screening programmes and intervention targeting specified age groups. At least three major cervical methods are

¹ Smith EM, Ritchie JM, Yankowitz J et al. Sex Transm Dis. 2004; 31:57-62

globally accepted that includes a conventional cytological method by Pap smear; HPV DNA testing; and Visual inspection methods using acetic acid (VIA) and Lugol's iodine (VILI). Effective screening it involves training of a range of cadres of health care providers and also the targeted girls and women and their significant others. **Diagnosis and treatment** are integral part of any screening method. Treatment of precancerous lesion can be done on a single visit using relatively simple procedures that prevent progression to cancer. Treatment that can be offered within a screening setting includes cryotherapy, cold coagulation or electrosurgical excision procedure (LEEP) depending on the size and site of the pre-cancerous lesion.

Early detection and treatment of precancerous lesions are also referred to as **secondary prevention**. Treatment of invasive cancer that includes radical surgeries, radiotherapy and chemotherapy are considered **tertiary prevention** together with palliative care. **Palliative care** is an essential component in a comprehensive cervical cancer control programme targeting women with advanced disease aiming at symptomatic relief to control bleeding, pains and side effects due to treatments. Palliative care provides compassionate care to patients and their caregivers.

All four components are crucial for a comprehensive intervention for prevention and control of cervical cancer in Tanzania. The country needs to adopt cost-effective models warranting wider access with meager resources.

Chapter 2: Situation analysis

2.1 Country Profile

Tanzania Mainland has 21 regions and 124 districts. Each district is divided into divisions, which in turn are composed of 3-4 wards (5-7 villages for a ward). The district is the most important administrative and implementation unit for public services. The Ministry of Health and Social Welfare in collaboration with the Prime Minister's Office Regional and Local Government are strengthening district health services.

Tanzania Mainland has an estimated 2011 population of 43,169,305 projected from the 2002 population census. It has an annual population growth rate of 3.1%. Crude birth rate is 41.6 per 1,000 population and life expectancy is 53 years for men and 55 years for women. Twenty five percent of the population resides in the urban areas and the seventy five percent of the population is rural.

2.2 Burden of cervical cancer in Tanzania

Cervical cancer is the leading cause of cancer related morbidity and mortality in women in Tanzania. Tanzania suffers one of the highest cervical cancer burdens in the world and the highest in Eastern Africa, with an age-standardized incidence rate (ASR) of 50.9 cases per 100,000 women, and an age-standardized mortality rate of 37.5 per 100,000 women. One-tenth of the estimated 72 000 new cases and 56 000 cervical cancer deaths in Sub-Saharan African countries in the year 2000 occurred in Tanzania. In 2009 cervical cancer accounted for 35.3% of all cancer patients seen at the Ocean Road Cancer Institute (ORCI), the only specialized facility for cancer management in the country (ORCI, 2009). Furthermore, 80% of patients diagnosed with cervical cancer die within 5 years of diagnosis. This low survival is mainly due to advanced stage of disease at presentation and limited access to cervical cancer screening, diagnosis and treatment services.

The problem is compounded by the HIV and AIDS epidemic. The association between HIV and invasive cervical cancer is complex with several studies now clearly demonstrating an increased risk of precancerous cervical lesions and more rapid progression to cancer among HIV-infected women. In Tanzania women with cervical cancer are twice as likely to be HIV-positive and HIV-positive women also develop cervical cancer 10 years earlier than HIV-negative women (Kahesa 2008). With an HIV prevalence rate of 6.8% among women aged 15–49 as reported in THMIS 2008 brings significant implications for national programs (UNAIDS 2008).

Despite the high burden of disease, the majority of women do not have access to cervical cancer prevention services in the country. Implementation of a national cytology based screening program would be challenging due to the resources required. Tanzania lacks adequate histopathology and other diagnostic and treatment facilities.

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Yet, opportunities do exist to prevent treat and cure this suffering by promoting primary prevention, secondary prevention and tertiary care. A comprehensive approach to prevention, including vaccination, screening and treatment will lead to reduction in the incidence and the mortality rate from this preventable disease. Early detection of precancerous lesions coupled with early treatment of cervical cancer increases chances for complete cure. Integrating cervical cancer and HIV intervention is an approach appropriate for Tanzanian setting

2.3 Existing Initiatives to Prevent and Control Cervical Cancer in Tanzania

Policy Environment

The 2005 - 2020 Reproductive and Child Health Strategy describes the National Package of Essential Reproductive and Child Health Interventions (NPERCHI) and outlines the most feasible, efficient and effective methods to reduce the leading causes of morbidity and mortality. Prevention and management of cancer is one of the components of NPERCHI.

Several national disease control strategy documents have been developed including a Primary Health Care Strategy, a Non-Communicable Disease Strategy and a National Strategy for Growth and Poverty Reduction. A draft National Cancer Control Strategy was prepared in 2008 with support from International Atomic Energy Agency (IAEA) through its program for cancer therapy (PACT) and the Tanzania National Steering committee for National Cancer Control Strategy. The strategy clearly outlines the need for a cervical cancer prevention and control program in the country. In addition, the National Non-Communicable Disease Strategy identified cervical cancer as one of the four cancers that need immediate prevention and control in the country.

Ocean Road Cancer Institute was established in 1996 with the mandate of providing services related to cancer diagnosis and treatment, prevention, research and teaching. ORCI is the only specialized centre for cancer care in Tanzania. Treatment and palliative care are provided at no cost to the patient. The Government of Tanzania is responsible for all cost related to cancer diagnostic, treatment and care.

Prevention Services

Early detection and prevention of cervical cancer can reduce morbidity and mortality due to cervical cancer. Cervical cancer prevention services started in 2002 with ORCI spearheading the efforts by establishing a cervical cancer screening and treatment program for health care workers in various regions using Visual Inspection technique with application of acetic acid (VIA).

In response to increased demand for cervical cancer screening services, the Reproductive Health Cancer Unit was established within the Ministry of Health in 2008. Following a number of consultations with stakeholders, the MOHSW through the Reproductive Health Cancer Unit developed a Cervical Cancer Prevention and Control Strategy that provides a background for the development of a National Strategic Plan. In addition, in May 2010 the unit produced the Cervical Cancer Prevention Service Delivery Guidelines. Strategically the MOHSW has:

- Obtained commitment from stakeholders and partners to support development and implementation of an organized cervical cancer prevention program, including both vaccination of adolescent girls and screening/ treatment of adult women
- Conducted a preliminary rapid assessment of cervical cancer prevention program including cost analysis
- Established a Technical Advisory Group (TAG) and sub working groups for cervical cancer

Cervical Cancer Screening Services

Tanzania has limited and relatively uncoordinated cervical cancer screening and treatment services. Currently cervical cancer screening services are routinely available in Dar es Salaam (ORCI, MNH, few Private Hospitals). Until 2010, training had been provided in the following regions and services are increasing, often with the support of NGOs: Morogoro (3 health facilities), Kigoma (12 health facilities), Kilimanjaro (8 health facilities), Ruvuma (7 health facilities), Dodoma (3 health facilities), Lindi (1 health facility), Mtwara (2 health facilities), Iringa (1 health facility), Manyara (2 health facilities), Bagamoyo (1 health facility), Tanga (1 health facility), Muheza (1 health facility) and in Mwanza (4 health facilities) and Arusha (3 facilities). With exclusion of Muhimbili National Hospital and few Private Hospitals, the existing sites are providing screening services using visual inspection technique after application of acetic acid (VIA) linked with cryotherapy, cold coagulation or LEEP treatment approaches when indicated. Women accessing these services include those attending health facilities for other services at reproductive and child health (RCH) clinics, but also women mobilized from the community. MOHSW is moving towards introduction of HPV DNA testing into selected pilot sites.

ORCI collects data from 11 sites. The total number of women screened at these sites to the end of 2009 was 21,347. Screening results showed that 17,868 (85%) were VIA negative, 2,577 (12%) were VIA positive and 558 (3%) were suspicious for cancer. There are no data regarding follow up of cases requiring referral.

Initiatives to improve screening and treatment

VIA screening initiatives for cervical cancer in Tanzania have largely been undertaken by ORCI since 2002, whereby the service mostly benefited women in Dar es Salaam. Since 2006, ORCI expanded services by training health care workers in regional hospitals and clinics. In addition, WHO through its multicentre VIA project assisted in

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establishing screening clinics in Peramiho hospital and at Kilimanjaro Christian Medical Centre since 2007; these clinics have managed to scale up the service in their catchment area district hospitals and health centers.

Since 2009 other partners have joined the efforts of establishment of screening clinics including Grounds for Health collaborating with ICAP and Jane Goodall Institute in Kigoma, JHPIEGO in Morogoro and PATH in Geita. Treatment of cervical cancer has been largely done through radiation therapy and chemotherapy provided at ORCI. Because the vast majority of patients are diagnosed at advanced stages of disease, chemo-radiation had been the main stay of treatment for cervical cancer patients, mainly for palliation. The lack of availability of surgical oncologists and the late stage at which cervical cancer patients present are limiting factors for the use of surgical treatment options. Chemo-radiation has shown some favorable results.

Existing histopathology services

The diagnosis of cervical cancer requires a histological proven report of the biopsy specimen from the suspected lesion. There are only about 15 pathologists in the country, and most of them are based in Dar es Salaam at MUHAS and MNH. Outside Dar es Salaam, pathology services for cervical cancer diagnosis are provided at Bugando Medical Center, Mbeya Referral Hospital, KCMC and a private laboratory in Dodoma. However, women in remote districts and regions have limited access to diagnostic and treatment services.

Community awareness

In the prevention of cervical cancer, community awareness and communication is critical. There is limited knowledge about cervical cancer risk factors. This is due to the limited budget allocated for awareness and education campaign, and lack of appropriate mechanisms for reaching rural areas. Thus, awareness of cervical cancer preventive measures is still low in the community despite the efforts of preventing cervical cancer in the country. ORCI, Medical Women Association of Tanzania (MEWATA), and other professional organizations such as Medical Association of Tanzania (MAT), Tanzania Public Health Association (TPHA), Association of Gynaecologists and Obstetricians in Tanzania (AGOTA) have been working to increase awareness of cervical cancer screening and treatment through interviews and advertisements on televisions, radio stations and newspapers as well as information in brochures, posters, banners etc.

Immunization services in Tanzania

HPV vaccination is not currently included in Tanzania routine immunization schedule. The infrastructure and equipment available are well suited for the introduction of HPV vaccine. However *an expansion of the Temperature Controlled Chain* will be necessary

to respond to the volume requirements of the new vaccine introduction (especially monodose vials). Acknowledging the increased demand for space to store new vaccines the EPI central vaccine store received two cold rooms of 40m^3 each from UNICEF in 2010. Additional cold chain requirements at the national and regional levels have been identified. The Government of Tanzania through MOHSW received support for expanding available infrastructure for vaccine storage at central and regional levels from CIDA in December 2010. A detailed plan for expansion of national and regional storage is being developed by MOHSW, WHO and UNICEF. Additional resources are likely to be required for expansion at the district and health facility level.

2.4 Strengths, weaknesses, opportunities and threats

Introduction

There is high political will and high level government commitment as demonstrated by the First Lady and H.E. President Jakaya Kikwete of the United Republic of Tanzania who are championing for prevention of cervical cancer for Tanzanian women. The existence of a National Cancer Control Strategy is an indication of this priority in the Government plans.

STRENGTHS	WEAKNESS	OPPORTUNITIES	THREATS
National Cancer Control Strategy and priority	Lack of adequate human and financial resources	Government willingness and readiness to support cervical cancer control initiatives	Human resource training for the introduction of new vaccines, scaling up screening and treatment services
Existing healthcare infrastructure to build on	No National Policy for Cancer Prevention and Control	Commitment by development partners and institutions to support cervical cancer	Different target group for HPV vaccination compared with the routine EPI childhood immunization target groups required Different approaches in terms of vaccination strategy, advocacy and behavior adoption
Strong immunization program with available infrastructure and staff for new vaccine introduction	Limited availability of cervical cancer diagnosis and treatment facilities	Draft National Cancer Prevention and Control Strategy available	Competing public health priorities
Referral system for women diagnosed with cervical cancer	Lack of coordination of the cervical cancer screening and treatment program/services	Existence of a strong Health Education and Health Promotion section with advisory	Budgetary limitation for human resource development

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		committee which	
		oversees IEC interventions in the	
National cancer institute - Ocean Road Cancer Institute	Limited knowledge by the health care providers and the public in general about cervical cancer burden its prevention and control strategies	National School Health Program jointly coordinated by the MOHSW and MOEVT	The system readiness for Cervical Cancer Prevention and Control is still very low
Cervical Cancer Service	Absence of an	Training and	Sustainability of
Delivery Guidelines drafted	implementation plan for IEC on cancers	research capacity at ORCI that could serve as an anchor for expansion of cervical cancer diagnostic, treatment and care services	vaccination and screening products beyond donation program by Merck and Qiagen
Some experience in implementation of cervical cancer control activities and methods such as VIA and cryotherapy and the HPV vaccine demonstration project showing the vaccine can be given in school girls with good coverage for all three doses	Lack of human resource capacity in advocacy for cervical cancers Low health seeking behaviour among adolescent	Establishment of oncology training program at MUHAS/ORCI	Long-term sustainability of resources required to direct and implement the program
Existing cervical cancer screening services in various sites	Inadequate temperature controlled chain equipment at central, regional and district levels to meet new vaccine introduction volume requirements	Support of expanding temperature controlled chain by UNICEF and CIDA-Canada	Other public health priorities may divert attention of MOHSW and responsible staff needed to oversee program
Available trainers and service providers for cervical cancer screening	Limited capacity to organize and coordinate evaluation of new strategies such as HPV testing for screening	Donation of HPV vaccine by Merck, a private manufacturer for a three year immunization program	
Available histopathology services at referral hospitals	Limited treatment services - only one site in country (ORCI) to referral and treat women diagnosed with cancer	Donation of HPV DNA Screening tests products by Qiagen, a private manufacturer	
Existence of a strong Health Education and Health Promotion section with advisory committee which oversees IEC interventions in the country			

5 Rationale for cervical cancer strategic plan

Tanzania has the highest cervical cancer rates in East Africa and with an estimated age-standardized incidence rate of 68.6 per 100,000 and a mortality rate of 55.6 per 100,000 women (2002 Globocan). Unlike many other cancers, cervical cancer is mostly preventable. Over the past few decades, in the absence of programmatic interventions to prevent cervical cancer, there have been some isolated initiatives to introduce and scale up cervical cancer screening and treatment services. Examples include demonstration sites in Peramiho in Ruvuma, Moshi and Kigoma. Ocean Road Cancer Institute has been the only cancer treatment centre in the country.

While there is a clear indication for establishing a national program to address cervical cancer prevention and control, this plan provides guidance in planning, coordination, implementation, monitoring and evaluation. It seeks to mobilize and ascertain rational distribution and use of resources. The MOHSW calls for all stakeholders and partners to make effective use of this strategic plan for the benefit of all Tanzanian women. This will ensure effective coordination and efficient use of resources, as well as synergy and equity is distribution of efforts for cancer prevention and control measures in the country

Cervical cancer prevention and treatment services are scarce in Tanzania and the majority of women have limited access to services. Eighty percent of patients are seen in the last stages of the disease. With increased awareness there will be an increased demand for services and thus the need to roll out accessible, effective and affordable cervical cancer interventions (including treatment) in all regions in the country.

Tanzanian women experience a wide variety of gender related challenges including social, economical and cultural inequalities and vulnerabilities. Most women who die from cervical cancer are in the prime of their life, may be raising children, caring for their family, and contributing to the social and economic life of their communities. Women have a right to accessible, affordable and effective services for prevention, care and treatment of cervical cancer. This strategic plan addresses gender implications of cervical cancer disease. Sensitizing the communities and raising awareness of HPV and cervical cancer will be critical. Educating boys and men in safe sexual behavior will also be an important part of the strategic plan in order to reduce the risk of HPV transmission.

Chapter 3: Strategic Framework

This section includes the vision, mission, guiding principles, strategic objectives and a description of key activities.

Vision Women free from the burden of cervical cancer in Tanzania

Mission

The MOHSW is committed to translate cancer prevention and control knowledge into public health action. by involving all stakeholders including the community at grass root level in a manner that will ensure transparency, quality, availability and accessibility of cervical cancer services.

Guiding principles of the strategic plan

In line with the National Road Map Strategic Plan to Accelerate the Reduction of Maternal, Newborn and Child Deaths in Tanzania 2008-2015 (One Plan), the Strategic Plan for Cervical Cancer Prevention and Control will abide by the following guiding principles in order to ensure efficiency, effectiveness, ownership and sustainability of the program.

1. Integration

All efforts will be made to implement the proposed priority interventions at various levels of health system in a coherent, integrated and effective manner that is responsive to the needs of Tanzanian women.

2. Evidence based approach

The NCCPC strategic plan is based on up to date evidence, priority needs and cost effective strategies and approaches. Operational research will be conducted to provide evidence and inform program development.

3. Equity and accessibility

A conscious effort will be made to promote equitable access to quality health services with greater attention to women living in rural and underserved areas as well as women living with HIV infection or of unknown HIV status.

4. Gender in Health

Mainstreaming gender throughout the program as the basis of planning and implementation is important. All women have a right to accessible, affordable and effective services for prevention, care and treatment of cervical cancer.

5. Partnership

The plan will promote partnership and joint programming among stakeholders including the Regional Health authority, District Councils, private sector, academia professional organizations, civil society organizations as well as

communities in order to maximize the impact of available resources, avoid duplications and reduce wastage of scarce resources.

6. Division of labor for increased synergy

The MOHSW will make every effort to define clear roles and responsibilities of all players and partners in the implementation, monitoring and evaluation of the activities for increased synergy.

7. Transparency and accountability

The MOHSW will put a special emphasis on accountability, stewardship and transparency on the part of the government as well as stakeholders for enhanced sustainability.

8. Appropriateness and relevance

Interventions must rely on a clear understanding of the status and local perspective of cervical cancer prevention and control in Tanzania

9. Complementarities

The NCCPC builds on existing programs by taking into account the comparative advantage of different stakeholders in the planning, implementation and evaluation of cervical cancer prevention interventions.

10. Human Rights

The right to life is a basic human right and adopting a human right approach as the basis of planning and implementation is important

11. Phased planning and implementation

The NCCPC will be implemented in a phased approach with timelines that enable learning and re-planning for better results in all components of cervical cancer prevention program. Building and strengthening existing health infrastructure will be a priority.

The overall Goal: To reduce cervical cancer incidence, morbidity and mortality in Tanzania

3.1 Strategies & Themes

The following four strategies will enhance the achievement of the vision:

- Advocacy: While conducting advocacy convincing data are very important. For example data should show very clearly that currently the percentage of the total budgetary allocation to the MOHSW has not reached yet the Abuja recommendations (15% of the total National budget)
- Capacity building: The vision will be realized if the implementers are well trained to manage cervical cancer activities. In addition they should have the equipment and supplies to enable them to perform well all planned activities,
- Behavior change communication: Messages should be designed to convince the audience the importance of changing their behavior in order to prevent cancer of the cervix ,

• Fostering partnership: Partnering with stakeholders for the implementation of the strategic plan will bring about synergy and faster reduction of cancer of the cervix in Tanzania

These strategies shall operate under five main themes as listed

- A. Governance and Programme management
- B. Policy and Resource mobilization
- C. Primary prevention: vaccination and behavioural change
- D. Secondary prevention: screening, diagnosis & treatment precancerous lesions
- E. Tertiary prevention: diagnosis, care and treatment of cervical cancer patients
- F. Monitoring and Evaluation

3.2 Theme A. Governance and Programme management

Goal 1: To sustain good governance and manage cervical cancer prevention and control at all health facilities

Strategic objective 1

Sustained leadership commitment and good governance towards cervical cancer prevention and control interventions at all levels of the health system

Key Activities:

- Develop policy documents on cervical cancer as a public health issue impacting on development agenda.
- Conduct leadership awareness campaign on cervical cancer prevention and control including gender issues.
- Include cervical cancer agenda in management review meeting such as Directors' meetings (MOHSW and RCHS), RHMT and CHMT meetings
- Conduct advocacy platforms for addressing leaders at national, regional and district levels

Strategic objective 2

The NCCPC sustained cervical cancer prevention and control at all health system levels

Key Activities:

- Institute standard operating procedures and quality assurance measures for the interventions in health facilities
- Procure adequate cold chain spare parts and related supplies
- Conduct training on Effective Vaccine Stock Management (EVSM) at all levels

- Review HPV vaccine coverage to identify where girls are being missed particularly tracking coverage for girls not in school
- Expand cold chain distribution and storage capacities at all level

Strategic objective 3

The NCCPC programme linked with the EPI and MSD management to get full support for cervical cancer vaccination

Key Activities:

- The NCCPC programme manager to coordinate a quarterly meeting to be attended by MSD and EPI managers
- The NCCPC programme manager to coordinate a yearly meeting to inform all stakeholders on the progress of the NCCPC activities in Tanzania

3.3 Theme B. Policy and Resource Mobilization

Goal: To advocate for development of cervical cancer prevention and treatment enabling policy that will allow its implementation up to the village level

Strategic objective 1

Development of cervical cancer prevention and treatment policy advocated at national level

Key Activities:

- Build a strong stakeholders coalition to implement advocacy activities at national, regional, district and community levels
- Develop an NCCPC advocacy plan
- Train health workers on communication strategies and ensure local level advocacy
- Implement the advocacy plan at national levels (relevant sections/departments in the MOHSW and across ministries to integrate NCCPC into relevant existing programs)

Strategic objective 2

Resources mobilized to ensure successful roll out and future sustainability of the NCCPC

Key activities

- Verify five year national costing for establishing national cervical cancer prevention and control to cover HPV vaccination, 'see and treat' screening including HPV screening, treatment and palliative care services
- Advocate at national level (MOFEA, MOHSW, MOCDGC) for allocation of funds to cervical cancer activities
- Advocate Local government to incorporate cervical cancer activities into CCHP

 Local government to mobilize funds for HPV vaccination, cervical cancer screening, treatment and palliative care activities from partners and private sectors working in their respective districts

3.4 Theme C. Primary Prevention

Goal 1:To conduct mass education and awareness campaigns with the aim of preventing cervical cancer in Tanzania.

Strategic objective 1: Mass education and awareness campaigns for prevention of cervical cancer conducted in Tanzania

Key activities

- Develop, print and distribute cervical cancer information, education and communication (IEC) materials for both print (newspapers, articles, etc) and electronic media (TV, radio spots, etc)
- Conduct community sensitization meetings including advocacy and social mobilization meetings at all levels

Goal 2: To achieve universal coverage of HPV vaccination amongst adolescent girls by 2017

Strategic objective : Vaccination coverage sustained amongst adolescent girls in and out of schools

Key activities:

- Conduct school sensitization campaigns
- Roll out of a three- phase HPV vaccination program for girls in Primary Schools in standard 4: (in 3 regions in 2014/15, in seven additional regions in 2015/16 and Nationwide in 2017)
- Procure auto-disable syringes, needles and safety boxes for immunization activities
- Forecast vaccines and related materials at all levels
- Deploy routine Human Papillomavirus (HPV) Vaccine Coverage Monitoring Tool for dose one, two and three at district, regional and national level
- Explore and model integration of HPV vaccination programme with other school health programmes
- Engage village/ward/street leaders and health committees, parents and religious leaders including madrasat in mobilizing and promote HPV vaccination to all in and out-of schools girls aged 9-13years

Theme D. Secondary prevention: screening, diagnosis & treatment precancerous lesions

Goal : To increase the number of women aged 30 and above with access to and use appropriate, quality cervical cancer screening and early treatment of precancerous lesions to 50% by 2015

Strategic objective 1: Increased the number of women aged 30 and above with access to and use appropriate, quality cervical cancer screening and early treatment of precancerous lesions

Key Activities:

- Engage community mobilizers and public education means as well as organizations like MEWATA to encourage women to access cervical cancer screening services
- Introduce cervical cancer screening using VIA with colposcopy across the country and HPV DNA testing in pilot sites
- Avail treatment services for precancerous lesions in using cyotherapy, cold coagulation and LEEP in national/zonal consultants regional and district hospitals Cryotherapy to be introduced at health facility levels
- Adopt/ develop and disseminate comprehensive training package for cervical cancer screening and treatment of precancerous lesions
- Train zonal, regional and district trainers on cervical cancer screening using national training package.
- Orient CHMTs and RHMTs on cervical cancer screening and treatment services to ensure that plans are incorporated into the CCHPs
- Develop/adapt standard job aides and tools for cervical cancer screening service provision
- Conduct regular post training and supportive supervision at all sites
- Provide cervical cancer screening equipment to and establish mechanisms for maintenance
- Establish a referral system for all women who need treatment of precancerous lesions and those with possible invasive cervical cancer

Strategic objective 2: Clinical services for cervical cancer screening and treatment of precancerous lesions integrated in other related clinical services in health facilities

Key Activities:

- Develop a scale up plan at national, regional and district levels for integrated cervical cancer screening services (RCH,OPD, STI, CTC clinics)
- Establish integrated cervical cancer screening and treatment services to include 'see and treat' approaches at regional and district hospitals and where feasible in lower

- health facilities (health centres and dispensaries) and in outreach reproductive health clinics
- Update pre service curricula to address cervical cancer screening and treatment approaches
- Conduct outreach cervical cancer screening and precancerous treatment services using campaigns or organized community-based clinics to promote uptake of the program
- Conduct training for clinicians and nurses to provide cervical cancer screening services and treatment of precancerous lesions
- Procure and distribute cervical cancer screening and treatment equipment to regional, and district health facilities

Strategic objective 3:

HPV DNA testing introduced as a screening method into a selected number of VIA screening sites

Key Activities:

- Establish a national reference laboratory and core group of country experts for HPV DNA testing and cervical cancer
- Initiate WHO Operational Research plan, designed to pilot and evaluate the feasibility of implementing HPV DNA testing in Tanzania
- Reproductive and Child Health Section: Cancer Unit to develop a plan, activities, and timeline for tasks involved and MOHSW to assign staff/team to manage the plan
- MOHSW to recruit technical partners (as required) to assist with the transfer of HPV testing technology into the country
- Develop cost effectiveness models to assess the potential impact and costing vs existing program

3.6 Theme E. Tertiary prevention: diagnosis, care and treatment of cervical cancer patients

Goal:

To increase the number of women who have access to and use quality cervical cancer treatment: surgery, radiotherapy and chemotherapy and palliative care services to 50% by 2015

Strategic Objective 1:

Safe, acceptable and cost effective quality diagnostic and treatment services for cervical cancer established

Key Activities

- Train histopathologists/cytologists in referral hospitals to enable them provide diagnostic services and ensure sustainability.
- Procure equipment (teleradiotherapy and brachytherapy machines) and supplies at diagnostic sites.
- Train and recruit trained/competent cadres in consultant/referral and regional hospitals for cervical cancer management.

Strategic objective 2:

Reduction of barriers for referral accelerated for the provision and receipt of quality cervical cancer, diagnosis and treatment.

Key Activities

- District councils to develop a system/mechanism to support/assist poor cancer patients for transport costs payment.
- Raise awareness to the communities in health seeking behaviour related to cervical cancer issues
- Provide standard guidelines for referral of patients to all health facilities
- Train health care providers on guidelines for referral of patients to all health facilities

Strategic objective 3: Essential components for palliative care are included in the comprehensive cervical cancer control.

Key Activities:

- Develop guidelines for prevention and management of symptoms due to advanced cervical cancer lesions for health care providers, carers and family members
- MOHSW to facilitate availability of pain management drugs including opiates at health facilities down to district level as per palliative care guidelines and WHO's analgesic ladder
- MOHSW to ensure palliative care services for cervical cancer patients are well addressed and included in the national palliative care strategy/initiatives
- Work with national palliative care strategy/initiatives to orient all health providers
 on palliative care drug policy and guidelines and community home based care
 providers on palliative nursing care
- Develop guidelines for continuum of care for terminally ill cervical cancer patients to access all basic care including physical, psychological, spiritual and emotional care within her reach.

Theme F: Monitoring and Evaluation

Goal: To monitor and evaluate cervical cancer prevention, control and treatment services at all health facility levels

Strategic Objectives 1: Cervical cancer prevention, control and treatment services monitored at all health facility levels

Key Activities

- Develop, print and distribute registers and HPV vaccination cards to all implementing levels
- Develop HMIS training package for health care providers, managers and planners; and harmonize it to the monitoring and evaluation training: package.
- Orient health care providers on HMIS data collection, analysis and utilization of data.
- Orient health care providers, supervisors and program planners on the updated HMIS.
- Conduct follow up and supportive supervision of health care providers.

Strategic Objective 2:

HMIS updated to include cervical cancer indicators

Key activities

- Integrate cervical cancer prevention and control information into national HMIS (MTUHA) reporting tools
- Print and distribute integrated cervical cancer prevention and control information into national HMIS reporting tools.
- Adopt/Adapt monitoring indicators across all service levels (PHC, regional and referral hospitals including ORCI)
- Orient/train data clerks/officers on updated cervical cancer prevention and control information
- Equip health facilities with necessary data capturing tools e.g. computers, paper-based tools
- Monitor the surveillance and response to Adverse Events Following Immunization (AEFI)
- Distribute monitoring form for HIV vaccination to all health facilities
- Conduct Data Quality Self Assessment (DQSA) for HPV vaccination at national, regional district and community levels
- · Conduct post introduction HPV evaluation at each phase
- .Review of HPV vaccination performance indicators at each phase

Strategic objective 3:

Operational Research results strengthened

Key activities

- Train regional and District TOTs on Operational Research skills
- Regional and District TOTs to conduct Operational Research on cervical cancer prevention, screening, treatment including palliative care
- Disseminate the findings of Operational Research to all service providers at regional, district and community levels
- Introduce mechanism for assessing quality of services and client satisfaction at all levels (Exit interviews)

Chapter 4: Implementation plan

4.1 Introduction

The goal of this National Cervical Cancer Prevention and Control (NCCPC) Strategic Plan is to improve the synergy between **partners and** Ministry of Health and Social Welfare (MOHSW) initiatives. The success of the strategic plan will depend on strong coordination by the MOHSW, the collaboration of other Ministries such as the Ministry of Education and Vocational Training; a genuine collaboration support from international and bilateral agencies and non-governmental organizations.

Each department at the MOHSW at central level will develop annual work plans in line with the fiscal year to implement the strategy. Annual work plans will be funded through the budget within the MTEF. Interventions to be implemented at the district level will be under the Local Government Authorities. The District and Municipal Councils will need to incorporate the cervical cancer prevention and control interventions into their c

Comprehensive Council Health Plans as well as into their Council Management Plans.

Resources mobilized for the implementation of the NCCPC will need to be managed in the spirit of transparency and accountability to ensure efficient use of resources. Stakeholders, including national government agencies, donor agencies and Development Partners Group need to meet their commitments and work in close collaboration.

4.2 Roles and responsibilities

5.2.1 Role of the Ministry of Health and Social Welfare

National Level

- Technical leadership, guidance and advice on the implementation and monitoring of the strategic plan.
- Establishment of advocacy mechanism for the strategy
- Development of a monitoring and evaluation system
- Identification of relevant research areas
- Develop, review and disseminate policies, guidelines and standards
- Undertake joint planning of activities with all key partners
- Mobilize resources and advocate for Cervical Cancer Prevention and Control
- Spearhead multisectoral involvement for cervical cancer Prevention and Control

 Identify and assign MOHSW staff to be responsible for and lead plans and activities

Zonal Level

- Dissemination and Implementation of the Strategic plan to Regional Levels
- Training of Supervisors of Immunization, Screening and treatment staff in cervical cancer
- Monitoring and evaluation activities

Regional Level

- Dissemination and implementation of the strategic plan to district levels
- Identification and prioritization of measures to prevent and control cervical cancer
- Identification and recruitment of appropriate qualified human resources
- Training and develop capacity of the available human resources in cervical cancer prevention and control
- Technical support to district level for Cervical Cancer Prevention and Control
- Coordination and supervision of district Level health services
- Coordination and supervision of District Hospitals in cervical cancer prevention and control
- Identification and incorporation of relevant cervical cancer prevention and control activities into Comprehensive Council Health Plans
- Ensure cervical cancer prevention and control activities are fully incorporated in the CCHP
- Support districts and ensure resource allocation for addressing cervical cancer prevention and control
- Harmonise priorities of cervical cancer prevention and control with other diseases of public health importance

District Level

- Identification and incorporation of relevant cervical cancer prevention and control activities into Comprehensive Council Health Plans
- Ensure that cervical cancer prevention and control activities are well funded (including outreach for vaccinating girls in schools)
- Harmonise priorities of cervical cancer prevention and control with other diseases of public health importance
- Adopt surveillance or information system for understanding the burden of cervical cancer in the district

- Customize priority measures to prevent and control cervical cancer given the resources available at district level
- Identify and recruit appropriate qualified human resources
- Train and develop capacity of the available human resource in cervical cancer prevention and control
- Technical support to lower health facilities in cervical cancer prevention and control activities
- Micro planning and implementation of HPV vaccination activities and budgeting
- Training, coordination and supervision of health workers in vaccination of school girls, screening and education on cervical cancer
- Ordering and re-ordering of HPV vaccines and supplies for the vaccination
- Conduct HPV vaccination activities
- Collate reports from health facilities on immunization activities
- Monitor and organize response to adverse events following immunization
- Screening monitoring: including monitoring of referrals made to cancer treatment centers

Health Facility Level

- Develop cervical cancer prevention and control work plans
- Implement strategies health education, screening, treatment, referrals, vaccination
- Conduct Supportive Supervision to all health facilities implementing cervical cancer interventions
- Monitor implementation progress of planned activities

Community Level

- Village health committees to include activities for awareness creation for cervical cancer prevention and control
- Support community mobilization during screening campaigns
- Support follow-up of cancer patients on treatment and/or home based care (palliative care)
- Village Governments and Ward Development Committees to include reporting on cervical cancer patients and deaths occurring in their catchment's areas

4.2.2 Role of other Ministries

Ministry of Education: in collaboration with Ministry of Health and Social Welfare

- Schedule visits of health teams to schools for vaccination, identify eligible girls, support visits for vaccine delivery, inspect adverse events
- Provide information, education on cervical cancer screening and HPV vaccination
- ➤ Ministry of Finance: Allocate adequate funds to MOHSW that will include cervical cancer programme funding
- ➤ Ministry of Community Development Gender and Children in collaboration with the Ministry of Health and Social Welfare and the PMORALG to collaborate in sensitizing and educating community on cervical prevention and control

Role of Development Partners, International/Private Organizations

- Participate and compliment government initiatives on cervical cancer prevention and control
- Support Government resource leverage efforts
- Work in synergy with government of Tanzania and international partners to prevent, control and treat cervical cancer
- Develop specific donations programmes for kick-starting HPV vaccination and HPV screening

Role of Professional and Civil Society Organizations

- ➤ MEWATA: work with community structure to strengthen community participation in cancer prevention and control
 - Provide assistance in training, social mobilization and clinical activities
 - Assist in mobilizing funds, equipment and supplies
- ➤ Research, Training Institutes: training, operational research on cervical cancer
 - Assist in organizing operational research activities

Chapter 5: Monitoring, Evaluation and Research Framework

Monitoring and evaluation activities around cervical cancer prevention and control are currently minimal; consisting of hospital based cancer registry

housed at ORCI, Muhimbili National Hospital (MNH) and Kilimanjaro Christian Medical Centre (KCMC). The information in these registers includes demographic characteristics of patients, clinical staging, treatment modality, and referrals. However, these three registers are not centrally coordinated.

There is limited information on cervical cancer prevention and control interventions. To facilitate monitoring and evaluation of the cervical cancer prevention and control program, a set of agreed and measurable indicators will be used. Routine cervical cancer prevention and control data will be collected at all levels of the health care delivery system including private health facilities.

Theme F: Monitoring and Evaluation

Goal: To monitor and evaluate cervical cancer prevention, control and treatment services at all health facility levels

Strategic Objectives 1: Cervical cancer prevention, control and treatment services monitored at all health facility levels

Key Activities

- Develop adapted and tailored HPV registers, print and distribute HPV vaccination cards to all implementing levels
- Avail women cervical cancer screening cards at service delivery points
 i.e. Cervical cancer screening clinics/units
- Develop HMIS training package for health care providers, managers and planners; and harmonize it to the monitoring and evaluation training package.
- Orient health care providers on HMIS data collection, analysis and utilization of data.
- Orient health care providers, supervisors and program planners on the updated HMIS.
- Conduct follow up and supportive supervision of health care providers.

Strategic Objective 2:

HMIS updated to include cervical cancer indicators

Key activities

- Integrate cervical cancer prevention and control information into national HMIS (MTUHA) reporting tools
- Print and distribute integrated cervical cancer prevention and control information into national HMIS reporting tools.
- Establish/Adopt/Adapt monitoring indicators for both vaccination and screening/treatment across all service levels (primary health care, regional and referral hospitals including ORCI)
- Equip health facilities with necessary data capturing tools e.g. computers, paper-based tools
- Monitor the surveillance and response to Adverse Events Following Immunization (AEFI).
- Review of HPV vaccination performance indicators at each phase
- Orient/train data clerks/officers on updated cervical cancer prevention and control information
- Distribute monitoring form for HPV vaccination to all health facilities

Strategic objective 3:

Operational Research results strengthened

Key activities

- Train regional and District TOTs on Operational Research skills
- Regional and District TOTs to conduct Operational Research on cervical cancer prevention, screening, treatment including palliative care
- Disseminate the findings of Operational Research to all service providers at regional, district and community levels
- Introduce mechanism for assessing quality of services and client satisfaction at all levels (Exit interviews)

Strategic plan matrix 2011-2015

Theme A. Governance and Programme management

Goal 1: To sustain good governance and manage cervical cancer prevention and control at all health facilities

Strategic objectives	Strategic objective	Activities	Process Indicator		[ime	Time frame		Responsible
				Y	Y	7	Τ	organization
				1	2	4	гO	
Strategic objective 1: Sustained leadership commitment and good governance towards cervical cancer prevention and control interventions at all levels of the health system	Strategic objective 1: Sustained leadership commitment and good governance towards cervical cancer prevention and control interventions at all levels of the health system Percentage of leaders programme at all levels control interventions at demonstrate good governance governance	Develop policy documents on cervical cancer as a public health issue impacting on development cervical cancer as a agenda public health issue impacting on development agenda	Number of policy documents developed on cervical cancer as a public health issue impacting on development agenda	×	×			MOHSW (RCHS: NCCPC)
		Conduct leadership awreness camapaign on cervical cancer prevention and control including gender issues Facilities	Number of standard operating procedures and and quality assurance measures for the interventions instituted athealth facilities	×	×	×	×	MOHSW(RC HS: NCCPC)
		Include cervical cancer Agenda in management review meetings such as Director's meetings MOHSW, RCHS, RHMTs and CHMTs meetings	Number of Advocacy meetings conducted at national, regional and district levels	×	×	×	×	MOHSW(RC HS: NCCPC)

MOHSW (RCHS: NCCPC in collaboration with CSO and FBOs	MOHSW(RC HS: NCCPC)	MOHSW (RCHS: NCCPC)	MOHSW (RCHS: NCCPC and EPI)	MOHSW (RCHS: NCCPC and EPI) MSD	MOHSW (RCHS: NCCPC and EPI) MSD
×		×	×	X	×
×		×	×	×	×
×		×	×	X	×
×	×	×	×	X	×
×	×	×	×	X	×
Number of Advocacy Platforms conducted at national, regional and district levels	Number of standard operating procedures and and quality assurance measures for the interventions instituted at health facilities	Number of trainings conducted on Effective Vaccine Stock Management (EVSM) at all levels	Number of HPV vaccine coverage reviewed to identify where girls are being missed particularly tracking coverage for girls not in school	Number of expanded cold chain spare parts and related supplies	Number and amount of cold chain spare parts and related supplies procured
Conduct Advocacy Platform for addressing Leaders at national, regional and district levels	Institute standard operating procedures and quality assurance measures for the interventions in health Facilities	Conduct training on Effective Vaccine Stock Management (EVSM) at all levels	Review HPV vaccine coverage to identify where girls are being missed particularly tracking coverage for girls not in school	Expand cold chain distribution and storage capacities at all levels	Procure adequate cold chain spare parts and related supplies
	Percentage of health facility levels that sustain the programme of cervical cancer prevention and control				
	Strategic objective 2: The NCCPC sustained cervical cancer prevention and control at all health system level				

Strategic objective 3 The NCCPC	Percentage of MSD and EPI management	The NCCPC programme manager to coordinate a	Number of management	×	<u> </u>	×	×	X X X X MOHSW (RCHS:	
programme linked with the EPI and MSD	activities linked with NCCPC programme	quarterly meeting to be attended by MSD and EPI	meetings coordinated by by NCCPC					NCCPC)	
management to get full support for		managers							
cervical cancer									
vaccination									
		The NCCPC programme	Number of stakeholders	X	()	x x x	X	MOHSW	
		manager to coordinate a yearly	meetings					(RCHS:	
		meeting to inform all	Coordinated by the NCCPC					NCCPC)	
		stakeholders on the progress of the NCCPC activities in							
		Tanzania							

Goal: To advocate for development of cervical cancer prevention and treatment enabling policy that will allow its implementation up to Theme B. Policy and Resource Mobilization the village level

ame Responsible Department/	Y Y organization	MOHSW (RCHS: NCCPC)	MOHSW (RCHS: NCCPC)	X X MOHSW (RCHS: NCCPC)	X MOHSW (RCHS: NCCPC)
Time frame	ж ×			×	×
Ti	≻ ~			×	×
	7 1	×	×	×	×
Process Indicator		Number of stakeholders coalition formed	NCCPC advocacy plan developed	Number of health workers trained on behaviour change communication strategies and ensure local level advocacy	Number of ministries /relevant sections departments that integrate NCCPC advocacy plans into their existing plans
Activities		Build a strong stakeholders coalition to implement advocacy activities at national, regional, district and community levels	Develop an NCCPC advocacy plan	Train health workers on behaviour change communication strategies and ensure advocacy performance at all levels	Implement the advocacy plan at national levels (relevant sections/ departments in the MOHSW and across ministries to integrate NCCPC into relevant existing programs)
Strategic objective indicator		Percentage of prioritized cervical cancer preventive measures and treatment incorporated in the national, regional and district health plans			
Strategic objectives		Strategic objective 1 Cervical cancer prevention and treatment policy developed and advocated at national, regional and district and community levels			

					1
Responsible	Department/ organization	MOHSW (RCHS: NCCPC)	MOHSW (RCHS: NCCPC)	PMORALG, DISTRICT COUNCILS	PMORALG, DISTRICT COUNCILS
	Y 5			×	X
	Y 4			×	×
ıme	Y 3			×	X
Time frame	Y 2			×	X
Tin	Y 1	×	X	×	X
Process Indicator		Verification executed: five year national costing for establishing national cervical cancer prevention and control to cover HPV vaccination, 'see and treat' screening including HPV screening, treatment and palliative care services	Number of advocacy meetings conducted to advocate for allocation of funds for cervical cancer activities	Number of Councils that have incorporated cervical cancer activities into CCHP	Amount of funds mobilized by the District Councils from partners working in their respective districts
Activities		Verify five year national costing for establishing national cervical cancer prevention and control to cover HPV vaccination, 'see and treat' screening including HPV screening, treatment and palliative care services	Advocate at national level (MOFEA, MOHSW and Development Partners) for allocation of funds to cervical cancer activities	Advocate Local government to incorporate Cervical cancer activities into CCHP	Local government to mobilize funds for cervical cancer activities from within and from partners working in their respective District Councils
Strategic objective	ındıcator	Percentage of funds mobilized by the MOHSW and Partners to ensure successful roll out and future sustainability of the NCCHP		Percentage of funds mobilized by the Local government to cover the cost of cervical cancer activities	
Strategic objectives		Strategic objective 2 Resources mobilized to ensure successful roll out and future sustainability of the NCCHP			

Theme C. Primary Prevention Goal 1: To conduct mass education and awareness campaigns with the aim of preventing cervical cancer in Tanzania.

Strategic objectives	Strategic objective	Activities	Process Indicator	Tim	Time frame	me			Responsible
	ındıcators			7 1	7 Z	ъ к	Y Y Y 1 2 3 4 5		Department/ organization
Strategic objective: Mass education and		Develop, print and distribute HPV IEC	Number of HPV IEC materials developed,	×	×	×	×	×	X X X MOHSW, MOCDGC,
awareness campaign for prevention of HPV conducted in Tanzania	adolescents who know/ are aware that HPV cause cancer of the cervix	materiais and airing TV/radio spots	printed, distributed and aired on TV/radio spots						MOEVI
		Conduct community mobilization, sensitization, and advocacy meetings at all levels	Number of community mobilization and sensitization meetings conducted	×	×	×	×	×	X X X MOHSW, MOCDGC, MOEVT

Goal 2: To achieve universal coverage of HPV vaccination amongst adolescent girls by 2017

Strategic objectives	Strategic objective	Activities	Process Indicator	Time frame	fram	a		Responsible
	indicators			Υ 1 2	7 X 3	Y 4	> rc	Department/ organization
Strategic objective 1 : Vaccination coverage sustained amongst adolescent girls in and out of	90% vaccination coverage achieved amongst adolescent girls in and out of school by 2017	Conduct school sensitization campaigns		×	×	×	×	MOHSW, MOCDGC, MOEVT
		Roll out of 3 phase HPV vaccination program for girls in Primary Schools in standard 4: (in 3 regions in 2014/15, in seven additional regions in 2015/16 and Nationwide in 2017)	Number of rolled out HPV vaccination activities by 2017	× ×	× ×	×	×	MOHSW (EPI, NCCPC) MOCDGC, MOEVT

syringes, needles and safety boxes for immunization activities	d safety ties	·	× >		× >	MOHSW (EPI, NCCPC) MSD
Forecast vaccines and related materials at all levels	Number or rorecasts vaccines and related materials at all levels			<		MOLSW (EFT, NCCPC) MSD
Deploy routine Human Papillomavirus (HPV) Vaccine Coverage Monitoring Tool for dose one, two and three at district, regional and national level	Number of HPV Vaccine Coverage Monitoring Tool deployed at district, regional and national level	×	× ×	×	×	MOHSW (EPI, NCCPC) MSD
Explore and model integration of HPV vaccination programme with other school health programmes	Number of integration of HPV vaccination explored	×	×	×	×	MOHSW (NCCPC and EPI)
Engage village/ward/street leaders and health committees, parents and religious leaders including madrasat in mobilizing and promote HPV vaccination to all in and out-of schools girls aged 9-13years	Number of village /ward/street leaders and health committees, parents and religious leaders including madrasat engaged in mobilizing and promoting HPV vaccination to all in and out-of schools girls aged 9- 13years	×	×	×	×	NCCPC, Local Government and Faith Based Organizations

Theme D. Secondary prevention: screening, diagnosis & treatment precancerous lesions

Goal: To increase the number of women aged 30 and above with access to and use appropriate, quality cervical cancer screening and early treatment of precancerous lesions to 50% by 2015

Strategic objectives	Strategic objective	Activities	Process Indicator	Tin	Time frame	me			Responsible
	indicators			7 7	7 7	× ×	7 4	У г	Department/ organization
Strategic objective: 1	Percentage of sites offering	Engage community	Number of community	×	×	×	×	×	MOHSW:
of women aged 30	treatment services	education means as	encourage women to access						
and above with access		well as organizations	cervical cancer screening						
and use appropriate	Percentage of women who	like MEWATA to	services						
quality cervical cancer	have received at least one	encourage women to							
screening and early	screening visit over a	access cervical cancer							
treatment of	specified time period or	screening services							
precancerous lesions	one in a lifetime)							
		Introduce cervical	Number of referral,	×	×	×	×	×	MOHSW:
		cancer screening and	regional and district						NCCPC
		treatment services for	hospitals that have						
		precancerous lesions in	introduced cervical cancer						
		all referral, regional	screening and treatment						
		and district hospitals	services for precancerous						
			lesions						
		Adopt/ develop and	Number of comprehensive	×	X	×	×	X	MOHSW:
		disseminate	training package for						NCCPC
		comprehensive training	cervical cancer screening						
		package for cervical	and treatment services for						
		cancer screening and	precancerous lesions						
		treatment of							
		precancerous lesions							

MOHSW: NCCPC	MOHSW: NCCPC	MOHSW: NCCPC	MOHSW: NCCPC
	×		×
	×		×
	×		×
×	×	×	×
×	×	×	×
Number of scale up plams developed at national, regional and district levels	Number of established integrated cervical cancer screening "see and treat" approach at regional and district hospitals.	Pre-service carricula updated address cervical cancer screening and treatment approaches	Number of outreach cervical cancer screening and precancerous treatment services conducted using campaigns or organized community-based clinics
Develop a scale up plan at national, regional and district levels for integrated cervical cancer screening services (RCH,OPD, STI, CTC clinics)	Establish integrated cervical cancer screening and treatment services to include 'see and treat' approaches at regional and district hospitals and where feasible in lower health facilities (health centres and dispensaries) and in outreach reproductive health clinics	Update pre service curricula to address cervical cancer screening and treatment approaches	Conduct outreach cervical cancer screening and precancerous treatment services using campaigns or organized community-based clinics to promote uptake of the program
Percentage of health facilities that have integrated clinical services for cervical cancer screening and treatment of precancerous lesions in other clinical services			
Strategic objective 2: Clinical services for cervical cancer screening and treatment of precancerous lesions integrated in other related clinical services in health facilities			

MOHSW: NCCPC	MOHSW: NCCPC, MSD	MOHSW:	MOHSW: NCCPC and Diagnostic Unit	MOHSW: NCCPC WHO
×	×	×		
×	×	×		
×	×	×		
×	×	×	×	×
×	×	×	×	×
Number of trainings conducted for clinicians and nurses to provide cervical cancer screening services and treatment of precancerous lesions	Number of cervical cancer screening and treatment equipment distributed to regional, and district health facilities	Percentage of referred women with precancerous lesions	Number of HPV DNA testing successfully run per a specified time-frame Number quality assurance tests for HPV DNA performed at national reference laboratory per a specified time-frame	Lessons generated from WHO operational research on feasibility
Conduct training for clinicians and nurses to provide cervical cancer screening services and treatment of precancerous lesions	Procure and distribute cervical cancer screening and treatment equipment to regional, and district health facilities	Establish a referral system for all women who need treatment of precancerous lesions and those with possible invasive cervical cancer	Establish a national reference laboratory and core group of country experts for HPV DNA as a screening method	Initiate WHO Operational Research i.e. large scale demonstration project, designed to pilot and evaluate the feasibility of implementing HPV DNA testing in Tanzania
			Percentage of VIA screening sites that have introduced HPV DNA as a screening method	
			Strategic objective 3: HPV DNA testing introduced as a screening method into a selected number of VIA screening sites	

	RCHS (Reproductive	A plan of cervical cancer	X				RCHS: Cancer
	and Child Health	activities developed by					Unit, WHO
	Section: Cancer Unit) to	RCHS					
	develop a plan,						
	activities, and timeline						
	for HPV DNA						
	screening tasks						
	MOHSW to train	Number of health	X	X	×	X	X X X X X RCHS: Cancer
	qualified personnel (as	personnel trained in					Unit, WHO
	required) and technical	performing HPV DNA					
	experts for transferring	testing					
	of HPV testing						
	technology across the	Number of national experts					
	country	available for transferring					

Goal: To increase the number of women who have access to and use quality cervical cancer treatment: surgery, radiotherapy and chemotherapy and palliative care services to 50% by 2015 Theme E. Tertiary prevention: diagnosis, care and treatment of cervical cancer patients

Strategic objectives	Strategic objective	Activities	Process Indicator	Tin	Time frame	me			Responsible
	indicators			Τ	Y	Υ	Υ	Υ	Department/
				1	2	8	4	rC	organization
Strategic objective1:	Percentage of	Train	Number of	×	×	×	×	×	MOHSW:
Safe, acceptable and	established cervical	histopathologists/cytologists	histopathologists/cytologis						NCCPC
cost effective quality	cancer services that are	in referral hospitals to enable	ts trained in referral						
diagnostic and	Safe, acceptable and	them provide diagnostic	hospitals						
treatment services	cost effective quality	services and ensure	to enable them provide						
for cervical cancer	diagnostic and	sustainability.	diagnostic services and						
established	treatment		ensure sustainability.						
		Procure equipment	Number of	X	X	×	X	X	MOHSW:
		(teleradiotherapy and	teleradiotherapy and						NCCPC,
		brachytherapy machines)	brachytherapy machines						MSD
		and supplies at diagnostic	and supplies procured at						
		sites.	diagnostic sites						
		Train and recruit	Number of competent	X	X	×	X	X	MOHSW:
		trained/competent cadres in	cadres in						NCCPC, WHO
		consultant/referral and	consultant/referral and						
		regional hospitals for	regional hospitals trained						
		cervical cancer management	for cervical cancer						
			management						
Strategic objective 2:	Percentage of barriers	District councils to develop a	Number of district councils	X	X				MOHSW:
Barriers reduced to	reduced to accelerate	system/mechanism to	that developed a						NCCPC, Local
accelerate the	the delivery and receipt	support/assist poor cancer	system/mechanism to						Government
delivery and receipt	of quality cervical	patients for transport costs	support/assist poor cancer						
of quality cervical	cancer diagnosis and	payment	patients for transport costs						
cancer diagnosis and	treatment		payment.						
treatment.									

MOHSW: NCCPC	MOHSW: NCCPC	MOHSW: NCCPC	MOHSW: NCCPC	MOHSW: NCCPC
×	×	×		
×	×	×		
	×	×		
×	×	×		
×	×	×	×	×
Number of districts/villageswhere the awareness was raised in health seeking behaviour related to cervical cancer issues. Number of community members attended	Percentage of health facilities with standard referral guidelines	Number of health care providers trained on guidelines for referral of patients	Number of guidelines developed for prevention and management of symptoms due to advanced cervical cancer lesions for health care providers, caregivers and family members	Number of guidelines developed for continuum of care for terminally ill cervical cancer patient to access all basic care including physical, psychological, spiritual and emotional care within her reach
Raise awareness to the communities in health seeking behaviour related to cervical cancer issues	Provide standard guidelines for referral of patients to all health facilities	Train health care providers on guidelines for referral of patients to all health facilities	Develop guidelines for prevention and management of symptoms due to advanced cervical cancer lesions for health care providers, careers and family members	Develop guidelines for continuum of care for terminally ill cervical cancer patients to access all basic care including physical, psychological, spiritual and emotional care within her reach
			Percentage of Health facilities/sites at community level implementing Palliative care drug policy guidelines	
			Strategic objective 3 Essential components for palliative care are included in the comprehensive cervical cancer	

te Percentage of health X X X X X X	pain Facilities that have pain NCCPC	Irugs management drugs	tes at health including opiates		lliative care	WHO's	er	providers on % of health providers X X X X X MOHSW:	drug policy and community care NCCPC	and orient providers oriented on			palliative nursing care	respectively	nsure Palliative care services for X X MOHSW:			ational paliative care				
availability of pain		management drugs	including opiates at health	facilities down to district	level as per palliative care	guidelines and WHO's	analgesic ladder	Orient health providers on	palliative care drug policy	and guidelines and orient	community home based care	providers on palliative	nursing care		MOHSW to ensure	palliative care services for	cervical cancer patients are	well addressed and included	in the national palliative care	in the national pall strateov/initiative	in the national palli strategy/initiatives	in the national pall strategy/initiative

Theme F: Monitoring and Evaluation Goal: To monitor and evaluate cervical cancer prevention, control and treatment services at all health facility levels

ective iectives ncer ontrol t services all health	Strategic objective	Activities	Process Indicator	Tim	Time frame	ne ,	<u>></u>	Responsible	ble
	bjective					[
	lidicator			7 -	7 X	х 6 х 4		organization	ent/ ion
	Percentage of health facilities	Develop, print and distribute registers and	Number of HPV registers and vaccination cards developed.	×	×	<u>~</u> ×	× ×	MOHSW:	nd
	that monitor	to all	printed and distributed					EPI	!
	cervical cancer		•						
	prevention,								
facility levels co	control and								
tri	treatment								
			Number of HMIS training	X	X			MOHSW:	
		package for health care	package developed and					NCCPC, DPP	OPP
		providers, managers and	harmonized to the monitoring						
		į.	and evaluation training package						
			for health care providers,						
		ckage	managers and planners						
			Number of health care	×	×	×	×	MOHSW:	
			providers oriented on HMIS					NCCPC	
		Ţ	data collection, analysis and						
			utilization of data.						
		Orient health care providers	Number of Health care	×	×	×	×	MOHSW:	
		on HMIS data collection,	providers oriented on HMIS					NCCPC	
		analysis and utilization of	data collection, analysis and						
			utilization						
		luct follow up and	Number of follow up and	X	×	X	×	:MOHSM:	
		supportive supervision of	supportive supervision					NCCPC	
		health care providers.	conducted for health care						
			provider						
ve 2:	Percentage of	Integrate cervical cancer	Number of cervical cancer	X	X	X	x x		:NCC
	cervical cancer	prevention and control	prevention and control					PC,	
include cervical cancer in	indicators		information integrated into					Directorate of	te of
indicators in	included in the	IS (MTUHA) reporting	national HMIS (MTUHA)					Policy and	d
H	HMIS	tool	reporting tool					Planning (DPP)	(DPP)

	Print and distribute integrated cervical cancer prevention and control information into national HMIS reporting tools.	Number of integrated cervical cancer prevention and control information into HMIS reporting tools printed and distributed	×	×	×	×	×	X X X MOHSW:NCC PC, DPP
	Adopt/Adapt monitoring indicators across all service levels (PHC, regional and referral hospitals including ORCI)	Number of monitoring indicators adopted/adapted across all service levels	×	×	×	×	×	MOHSW:NCC PC DPP
	Orient/train data clerks/officers on updated cervical cancer prevention and control information	Number of data clerks/officers oriented/trained on updated cervical cancer prevention and control information	×	×	×	×	×	MOHSW: NCCPC
	Equip health facilities with necessary data capturing tools e.g. computers, paperbased tools	Number of health facilities equipped with necessary data capturing tools	×	×	×	×	X P D	MOHSW:NCC PC DPP
	Monitor the surveillance and response to Adverse Events Following Immunization (AEFI)	Number of monitoring sessions conducted for the surveillance and response (AEFI)	×	×	×	×	X A G G	MOHSW:NCC PC DPP
	Distribute monitoring form for HPV vaccination to all health facilities	Number of monitoring form for HPV vaccination distributed to all health facilities	×	×	×	×	×	MOHSW: NCCPC, EPI
	Conduct Data Quality Self Assessment (DQSA) for HPV vaccination at national, regional district and community levels	Number of Data Quality Self Assessment (DQSA) for HPV vaccination conducted at national, regional district and community levels	×	×	×	×	X	MOHSW:NCC PC
	Conduct post introduction HPV evaluation at each phase	Number of post introduction HPV evaluation	X	X	×	×	X P	MOHSW:NCC PC
	Review of HPV vaccination performance indicators at each phase	Number of HPV vaccination performance indicators reviewed	×	×	×	×	X P	MOHSW:NCC PC

results strengthened	Operational Research results	TOTs on Operational Research skills	TOTs trained on Operational NCCPC Research skills		<u> </u>	<	<	<	NCCPC	
	disseminated and used to improve									
31	service provision									
		Regional and District TOTs	Number of OR conducted by	×	×	×	×	×	X MOHSW:	
		to conduct Operational	regional and district TOTs on						NCCPC	
		Research on cervical cancer	cervical cancer prevention,							
		prevention, screening,	screening, treatment including							
		treatment including	palliative care							
		palliative care								
		Disseminate the findings of	Number of sessions conducted	X	X	χ	X	X	MOHSW:	
		Operational Research to all	to disseminate the OR findings						NCCPC	
		service providers at	to all service providers at							
		regional, district and	regional, district and							
		community levels	community levels							
		Introduce mechanism for	Number of health facilities that	×	X	×	×	×	MOHSW:	
		assessing quality of services	has introduced the mechanism						NCCPC	
		and client satisfaction at all	for assessing quality of services							
		levels (Exit interviews)	and client satisfaction at all							
			levels							

Strategic plan 2011-2015: Logical Framework

Results/outputs	Objectively verifiable indicators	Means of verification	Assumptions
Goal: To reduce cervical cancer	% of reduction of cervical cancer	DHS	Adequate funds allocated by the MOFEA
incidence, morbidity and	incidence, morbidity and mortality in		to the MOHSW to implement cervical
mortality in Tanzania	Tanzania.	Mini Survey	cancer services (Prevention, control and
			treatment)
OUTCOMES: Reduction of	90% HPV vaccination covered	HPV vaccine log books	Adequate funds allocated by the MOFEA
cervical cancer morbidity and	amongst adolescent girls by age and	HPV vaccine cluster survey	to the MOHSW to implement cervical
mortality in Tanzania.	by dose number by 2015		cancer services (Prevention, control and
			treatment)
	50% of eligible women have been	DHS	Availability of skilled service providers
	screened at least once in the past 5		to implement cervical cancer prevention
	years by 2015, and 80% of those who	Mini Survey	and control program at all levels
	were screen-positive received		
	treatment. by 2015		Availability of cervical cancer equipment
			and supplies for prevention (HPV
			vaccine), screening and treatment

A. Governance and Programme management	ınagement		
Results/outputs	Objectively verifiable indicators	Means of verification	Assumptions
Strategic objective 1	Number of specific actions for	Ministry of health reports	A range of leaders understand the
Sustained leadership commitment	cervical cancer prevention and		importance of cervical cancer prevention
and good governance towards	control demonstrated by high level		and control interventions
cervical cancer prevention and	leaderships		
control interventions at all levels	Existence of governance structures		
of the health system	for addressing cervical cancer		
	prevention and control		
Strategic objective 2	Percentage of health facility systems	Mini survey	All health facility system have adequate
The NCCPC sustained a cervical	that sustain the programme	Annual reports	funds, service providers and equipment
cancer prevention and control	(Vaccinations, Screening, Treatment		to sustain cervical cancer prevention and
activities at all health system	and Palliative care) for cancer		control activities
levels	prevention and control		

B. Policy and Resource Mobilization	uc		
Results/outputs	Objectively verifiable indicators	Means of verification	Assumptions
Strategic objective 1	Percentage of prioritized cervical	Developed National Policy	Willingness of the MOHSW to develop
Cervical cancer prevention and	cancer preventive measures and	on cervical cancer	cervical cancer prevention and treatment
treatment policy developed and	treatment incorporated in the	prevention and treatment	policy
advocated at national, regional	national, regional and district health		
and district and community levels	plans		Risk; Delay that could occur to finalize
			the policy
Strategic objective 2	Percentage of funds mobilized by the	Annual allocation of funds	The MOHSW readiness to allocate funds
Resources mobilized to ensure	MOHSW and Partners to ensure	from	for the implementation of the NCCHP
successful roll out and future	successful roll out and future	MOHSW (MTEF) to	
sustainability of the NCCHP	sustainability of the NCCHP	NCCHP planned activities (National, regional, district	Risk: Inadequate funds allocated to MOHSW (Directorate of Preventive
		and community levels)	services
	Percentage of funds mobilized by the	Annual Local government	The Local Government ability to mobilize
	Local government to cover the cost of	financial reports that show	funds from partners for cervical cancer
	HPV vaccination in the country in five	funds mobilized from	activities
	years, cervical cancer screening,	partners	
	treatment and palliative care activities		
C. Primary prevention			
Results/outputs	Objectively verifiable indicators	Means of verification	Assumptions
Strategic objective 1	Percentage of men who know/ are	Mini survey	Awareness and acceptability of men and
Mass education and awareness	aware that HPV cause cancer of the		women including adolescents to be
campaign for prevention of HPV	Cervix		prevented from HPV
Strategic objective 2	90% vaccination coverage achieved	Mini survey	Availability of HPV vaccine all the time
Vaccination coverage sustained	amongst adolescent girls in and out of		
amongst adolescent girls in and	school by age and by dose, 2015	the case I come A	Acceptability of parents for adolescents to
out of scrioof		Allılan report	Bisk: Misconcention by the community
			that HPV cause infertility for girls

D. Secondary prevention: screening diagnosis of Results/outputs Obj	nosis & treatment precancerous resions Objectively verifiable Indicators	nons Means of verification	Assumptions
Strategic objective IIncreased eligible women who have access to and use appropriate, quality cervical cancer screening and early treatment of precancerous lesions	Percentage of eligible women who have access to and use appropriate, quality cervical cancer screening and early treatment of precancerous lesions	Mini survey Annual reports NCCHP	Eligible women are accessing health facilities that provide quality cervical cancer screening and early treatment of precancerous lesions Risk: existence of few skilled health providers who could manage to provide quality cervical cancer screening and early treatment of
Strategic objective 2: Services for cervical cancer screening and treatment of precancerous lesions integrated in other clinical services for scaling up and sustaining the screening in the precancerous lesions	Percentage of integrated services for cervical cancer screening and treatment of precancerous lesions in other clinical services	Annual reports NCCHP	Other clinical services are able to integrate services and have adequate health providers, supplies and equipment for cervical cancer screening and treatment of precancerous lesions Risk: existence of few skilled health providers who could manage to integrate cervical cancer services into other clinical services
Strategic objective 3: HPV DNA testing introduced as a screening method into a selected number of VIA screening sites	Percentage of VIA screening sites that have introduced HPV DNA as a screening method	Mini survey Annual reports NCCHP	Availability of HPV DNA to be introduced as a screening method into selected number of VIA screening tests

Adequate equipment for diagnosis, components for palliative care in Adequate trained health workers Inadequate inclusion of essential include essential components for who are able to provide quality Poor attendance of community components for palliative care comprehensive cervical cancer community on cervical cancer members during sensitization care and treatment of cervical diagnosis, care and treatment distributed to the community Inadequate IEC materials on sensitization activities to the Acceptability by planners to cervical cancer information Adequate education and palliative care in the cancer patients Assumptions activities members services control treatment) at randomly selected treatment) at randomly selected clients attending cervical cancer clients attending cervical cancer Six monthly exit interview of Six monthly exit interview of interventions (diagnosis and interventions (diagnosis and Annual reports NCCHP Annual reports NCCHP Annual reports NCCHP Means of verification health facilities health facilities Mini survey F. Tertiary prevention: diagnosis, care and treatment of cervical cancer patients acceptable and cost effective quality Percentage of Health facilities/sites at community level implementing Percentage of established cervical Number of identified barriers cancer services that are Safe, Palliative care drug policy diagnostic and treatment Indicators of results addressed cervical cancer, diagnosis, treatment. Reduction of barriers accelerated to Essential components for palliative Safe, acceptable and cost effective quality diagnostic and treatment comprehensive cervical cancer delivery and receipt of quality services for cervical cancer care are included in the Strategic objectives 2 Strategic objective 3: Strategic objective 1 Results/outputs established control

F. Monitoring and Evaluation			
Results/outputs	Indicators of results	Means of verification	Assumptions
Strategic objective 1: Cervical cancer	% of facilities reporting basic service	Annual reports NCCHP	Cervical cancer prevention, control
prevention, control and treatment	indicators related to cervical cancer		and treatment services are
services monitored at all health			offered/provided at all health
tacility levels			facility levels
Strategic objective 2: HMIS	Percentage of cervical cancer	HMIS	Cervical cancer indicators included
updated to include cervical cancer	indicators updated and included in		in the HMIS
indicators	the HMIS	Annual reports NCCHP	
Strategic objective 3:	Percentage of operational research	Operation research reports	Researchers readiness to accept the
Data Management and utilization of results utilized to improve cervical	results utilized to improve cervical		conduction of operation research at
operational Research results	results cancer control and treatment	Annual reports NCCHP	health facilities
strengthened			
			Risk; Inadequate funds allocated to
			conduct Operation research

MONITORING AND EVALUATION INDICATORS

1. Policy for cervical cancer prevention and treatment clearly defined and documented

No	Indicator	Numerator	Denominator	Source	Frequency
1	Percentage of prioritized cervical Number of prioritized cervical Number of cervical	Number of prioritized cervical	Number of cervical	CHMTs Supervision Semi Annual	Semi Annual
	cancer preventive measures and cancer preventive measures and cancer preventive	cancer preventive measures and	cancer preventive	reports	
	treatment incorporated in the treatment incorporated in the	treatment incorporated in the	measures and treatment		Annually
	national, regional and district national, regional and district	national, regional and district	incorporated in the	RCHS Annual	
	health plans	health plans	national, regional and	reports	
			district health plans		

2. Resources mobilized to ensure successful roll out and future sustainability of the NCCHP

	- incoming midelinger to chear carrecter for any article castained mily of the incoming	מווים ממו מווא בממובר פמפונוות ביות ומו	y or tire in centr		
No	Indicator	Numerator	Denominator	Source	Frequency
1	Percentage of resources mobilized	Amount of resources mobilized Amount of resources	Amount of resources	CHMTs Supervision Semi Annual	Semi Annual
	to ensure successful roll out and	at the MOHSW, at regional,	mobilized at MOHSW	reports	
	future sustainability of the	district and community levels	and at all regional,		Annually
	NCCHP		district and community	RCHS Annual	
			levels	reports	

3.Behaviour change Communication and capacity building

o.Dena	3. Denaviour change Communication and capacity building	apacity puilding			
No	Indicator	Numerator	Denominator	Source	Frequency
1	Percentage of RH print materials	Number of print materials with Number of RH print	Number of RH print	CHMTs Supervision	Semi Annual
	and control messages printed	cervical cancer prevention and control messages printed and	disseminated	RCHS Annual reports Annually	Annually
	and disseminated	disseminated		TSPA	
2	Percentage of RH radio	Number of radio programs	Number of RH radio	CHMTs Supervision	Semi Annual
	programs with cervical cancer	with cervical cancer prevention	programs produced and	reports	
	prevention and control messages	and control messages produced	aired	RCHS Annual reports Annually	Annually
	produced and aired	and aired		TSPA	
3	Percentage of RH service	Number of RH service delivery Number of RH service	Number of RH service	CHMTs Supervision	Semia Annual
	delivery points with print	points with print materials with delivery points	delivery points	reports	
	materials with cervical cancer	cervical cancer prevention and		RCHS Annual reports Annually	Annually
	prevention and control messages	control messages		TSPA	Every Five years

4	Proportion of females age 9 to 49	Number of females age 9 to 49	Number of females age 9	ırveys for	Every two years
	with knowledge on cervical	with knowledge on cervical	to 49		,
	cancer prevention and control	cancer prevention and control		TDHS for age 15 to 49;	Every Five Years
5	Proportion of males age 15 to 49	Number of males age 15 to 49	Number of males age 15	TDHS	Every five years
	with knowledge on cervical	with knowledge on cervical	to 49		
	cancer prevention and control	cancer prevention and control			
9	Percentage of District Councils	Number of District Councils	Number of District	CHMTs reports	Semi Annually
	with campaign action plans on	with campaign action plans on	Councils		
	cervical cancer prevention and	cervical cancer prevention and			
	control	control			
7	Proportion of District Councils	Number of District Councils	Number of District	CHMTs reports	Semi Annually
	that have conducted HPV	that have conducted HPV	Councils		
	vaccine awareness media	vaccine awareness media			
	campaigns in the past six months	campaigns in the past six			
		months			
8	Proportions of wards that have	Number of wards that have	Number of Wards	CHMTs reports	Semi Annually
	conducted community	conducted community			
	mobilization events on cervical	mobilization events on cervical			
	cancer	cancer			
6	Proportion of service providers	Number of service providers	Number of all service	CHMTs Supervision	Semia Annual
	trained on cervical cancer	trained on cervical cancer	providers	reports	
	prevention and control	prevention and control		RCHS Annual reports	Annually
				TSPA	Every Five years
10	Proportion of community health	Number of community health	Number of all	CHMTs Supervision	Semia Annual
	workers trained on cervical	workers trained on cervical	Community Health	reports RCHS Annual	Annually
	cancer prevention and control	cancer prevention and control	workers	reports TSPA	Every Five years

4.1 Prevention: HPV vaccination

No	Indicator	Numerator	Denominator	Source	Frequency
1	Percentage of girls fully	Number of girls fully	Number of girls aged 9 Health Facility	Health Facility	Monthly
	vaccinated	vaccinated	to 13 years	records, HMIS	
2	Percentage of girls partially	Number of girls partially	Number of girls aged 9	Health Facility	Monthly
	vaccinated	vaccinated	to 13 years	records, HMIS	
3	Percentage of RH facilities with a	Number of RH facilities with a Number of all RH	Number of all RH	Health Facility	Monthly
	working refrigerator	working refrigerator	facilities	records, HMIS	

4.2 Prevention: Screening cervical cancer

No	Indicator	Numerator	Denominator	Source	Frequency
1	Percentage of new clients	Number of new clients	Number of all new	Health Facility	Monthly
	screened with VIA	screened with VIA	female clients aged 30 to	records, HMIS	
			50 years		
2	Percentage of new clients	Number of new clients	Number of all new	Health Facility	Monthly
	screened for HIV	screened for HIV	female clients aged 30 to	records, HMIS	
			50 years		
3	Percentage of clients with	Number of women diagnosed	Total Number of women	Health Facility	Monthly
	precancerous lesions treated with	with pre cancerous lesions	with pre cancerous	records, HMIS	
	Cryotherapy	treated with Cryotherapy	lesions eligible for		
			treatment with		
			Cryotherapy		
4	Percentage of new clients with	Number of new clients positive	Number of women	Health Facility	Monthly
	positive VIA results	VIA results	receiving initial VIA	records, HMIS	
			screening		
5	Percentage of new clients with	Number of new clients with	Number of women	Health Facility	Monthly
	suspect cancer	suspect cancer	receiving initial VIA	records, HMIS	
			screening		
9	Percentage of clients with VIA	Number of women treated with	Number of women	Health Facility	Monthly
	positive results treated with	cryotherapy	tested positive for VIA	records, HMIS	
	cryotherapy				
7	Percentage of clients with VIA	Number of women treated with	Number of women	Health Facility	Monthly
	positive results treated with	LEEP	tested positive for VIA	records	
	LEEP				

8	Percentage of clients referred for	Number of women with	Number of women	Health Facility	Monthly
	large lesion	positive VIA results refereed for large lesions	tested positive with VIA records, HMIS	records, HMIS	
6	Percentage of clients referred for	Number of women with	Number of women	Health Facility	Monthly
	suspect cancer	positive VIA results refereed	screened with VIA	records, HMIS	
		for suspect cancer			

5. Treatment of screened patients/clients

No	Indicator	Numerator	Denominator	Source	Frequency
1	Percentage of screened clients	Number of women treated	Number of women	Health Facility	Monthly
	treated surgically	surgically	screened	records,	
2	Percentage of screened clients	Number of women treated	Number of women referred	Health Facility	Monthly
	referred for surgery receiving	surgically	for surgery who receive	records,	
	prescribed treatment		treatment		
3	Percentage of screened clients	Number of women treated	Number of women	Health Facility	Monthly
	treated with chemotherapy/	with chemotherapy/radiation	screened	records,	
	radiation therapy	therapy			
4	Percentage of screened clients	Number of women treated	Number of women referred	Health Facility	Monthly
	referred for	with chemotherapy/radiation	for chemotherapy/	records,	
	chemotherapy/radiation therapy	therapy	radiation therapy who		
	receiving prescribed treatment		receive treatment		

