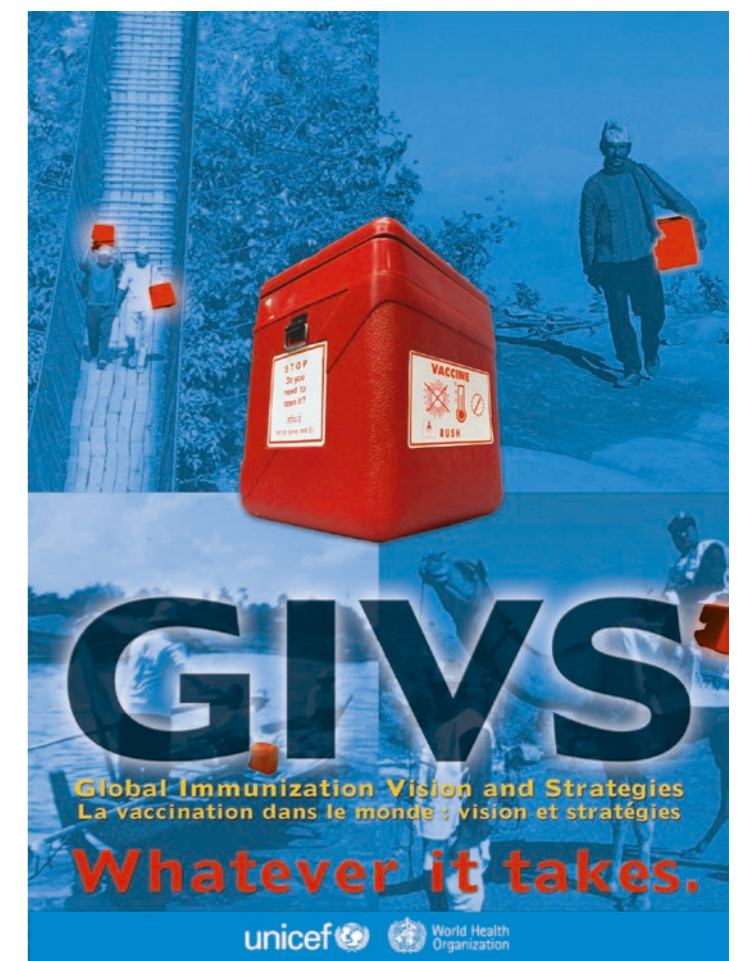
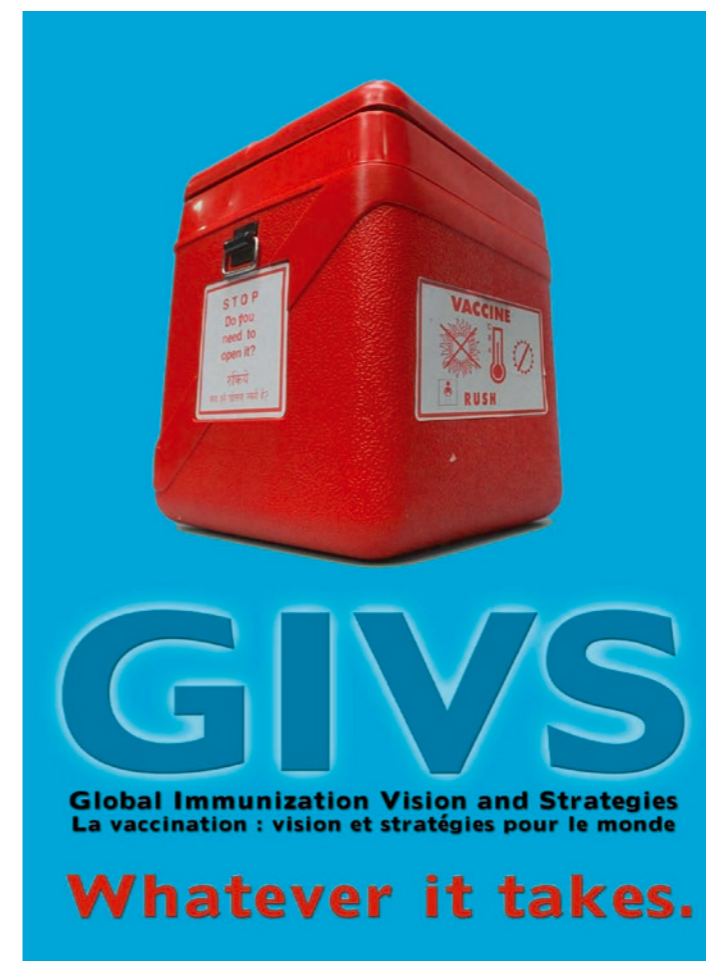


Poster design

Global Immunization Vision and Strategies,  
poster proposal.



Advocacy campaign  
Visual identity system

Stop the Global Epidemic of Chronic Disease: A Practical Guide to Successful Advocacy.  
Selected components of the Chronic diseases advocacy tool kit, in English and French.



**STOP**  
THE GLOBAL EPIDEMIC  
OF CHRONIC DISEASE

Powerful advocacy is essential to build commitment for action to stop the global epidemic of chronic disease. This handbook shows the way forward.

**A PRACTICAL GUIDE TO  
SUCCESSFUL ADVOCACY**

ISBN 92 4 159446 2

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World Health Organization

# MISUNDERSTANDINGS US. REALITY

**Chronic disease is responsible for 60% of all deaths worldwide**

**80% of chronic disease deaths occur in low and middle income countries**

**Almost half of chronic disease deaths occur in people under the age of 70**

**MARIAM JOHN, 13, HAD BIG PLANS FOR THE FUTURE – to become the health minister of her country, the United Republic of Tanzania. Her dream was to be able to help others and spare them from going through an experience similar to her own.**

Mariam was diagnosed with bone cancer in February 2005, soon after her knees had swollen to the point that she could barely walk. She was able to receive chemotherapy and radiotherapy treatment, but even this treatment was almost unbearable. "I am willing to have my leg amputated if it can take my pain away," she said.

One of Mariam's legs was amputated in December 2005. Three months later, she lost her battle to cancer, passing away in March 2006.

Contrary to common perceptions of chronic diseases, cases like Mariam's are not exceptional. Cardiovascular diseases, cancer, chronic respiratory diseases and diabetes are not just diseases of the elderly and the wealthy in developed countries. They mostly affect poor people and half of all chronic disease deaths occur in people under 70 years of age.

**WHAT CAN YOU DO TO PREVENT CHRONIC DISEASE? 5 easy suggestions**

- **Be aware with knowledge** – know that the three main chronic disease risk factors are tobacco use, unhealthy diet and physical inactivity.
- **Get active** – walk or cycle to work, use stairs, take the bus, walk to school, play sports, dance, swim, ride a bike, garden, etc.
- **Eat healthy** – eat at least 30 minutes of physical activity per day. Walk to work, use stairs, take the bus, walk to school, play sports, dance, swim, ride a bike, garden, etc.
- **Take your blood pressure** – know if you are at risk.
- **Don't smoke** – tobacco use kills, tobacco causes each year.

NEWSLETTER

# THE obesity CRISIS



**Menaka Seni, 60, has lived with diabetes for almost 30 years and like many with the disease, has high blood pressure. But it took the death of her husband and bypass surgery for Menaka herself to make her appreciate that being overweight was one of the main reasons for their health problems.**

Menaka's husband died of a heart attack. A year later, Menaka also suffered a heart attack and was lucky to survive. She underwent bypass surgery and learned, while recovering at the hospital, that it would take more than just medication to lower her health risks. Ever since, Menaka has been able to make positive changes to her life, taking daily walks and eating more fish, fruit and vegetables. "Taking medication for my heart and diabetes helps, but I learnt that you also need to change behaviour to lower your health risks," she explains.

Millions of people around the world share Menaka's physical profile. The World Health Organization estimates that there are more than one billion people – 1 in 6 of the world's population – who are overweight. Unfortunately, many of these people are "like Menaka before her heart attack" – unaware of the risks they are running.

Projections show an even gloomier picture – if current trends continue, it is estimated that by 2015 over 1.5 billion people will be overweight. "The sheer magnitude of the overweight and obesity problem is staggering," says Dr Catherine Le Gales-Camus, WHO Assistant Director-General of Noncommunicable Diseases and Mental Health. "The rapid increase of overweight and obesity in many low and middle income countries presages an overwhelming chronic disease burden in these countries in the next 10 to 20 years, if action is not taken now." So far, not one country in the world has been able to turn back the rising trend.

Overweight and obesity are major risk factors for chronic diseases such as cardiovascular disease and diabetes. Cardiovascular disease (mainly heart disease and stroke) is already the world's number one cause of death, killing 17 million people each year. Once considered a problem only in high income countries, estimates show that overweight and obesity are dramatically on the rise in low and middle income countries. WHO estimates that over the next 10 years cardiovascular diseases will increase most notably in the Eastern Mediterranean and African Regions, where cardiovascular disease-related deaths are predicted to rise by over 25%.

One doesn't even have to be overweight to be at risk. Evidence shows that the risks caused by excessive weight increase from a body mass index (BMI) of 21, which is well below overweight (BMI >25), let alone obese (BMI >30).

Over the past few years, a new frightening trend has begun to take shape – the rapid rise of overweight and obesity in children. Unlike most adults, children cannot choose the environment in which they live or the food they eat. They also have a limited ability to understand the long-term consequences of their choices.

At an individual level, people can reduce fat and salt in their diet while increasing fruit and vegetable consumption. Individuals can also increase physical activity to at least 30 minutes per day and stop

**how *your* country is doing**

Find specific data related to your country on the WHO Global Infobase.

WHO Global Infobase: <http://infobase.who.int> – on this link, click on "country profiles" to see how your country is doing. You can see country levels of overweight and obesity as well as data related to diabetes, blood pressure, physical inactivity and tobacco use.

Information on some countries can also be found on the chronic diseases and health promotion site: [http://www.who.int/chp/chronic\\_disease\\_report/media/impact/en/](http://www.who.int/chp/chronic_disease_report/media/impact/en/)

**<http://infobase.who.int>**

These are **samples** that show what we can do. They are **heuristic** for what we can do **for you**.

**CHRONIC DISEASE AND POVERTY**  
A VICIOUS CYCLE

Roberto Severino Campos lives in a shanty town on the outskirts of São Paulo, Brazil, with his seven children and 16 grandchildren. He used to be the family's breadwinner, but is now completely dependent on his family for survival.

Roberto's family is one of the many millions of people who live in poverty in the world. They live in a shanty town on the outskirts of São Paulo, Brazil. Roberto's family is one of the many millions of people who live in poverty in the world. They live in a shanty town on the outskirts of São Paulo, Brazil.

**WHERE ARE THE DEATHS HAPPENING?**  
Projected deaths by major cause and age, 2000-2025

Age group	2000	2005	2010	2015	2020	2025
0-4	1.2	1.1	1.0	0.9	0.8	0.7
5-14	0.8	0.7	0.6	0.5	0.4	0.3
15-44	1.5	1.4	1.3	1.2	1.1	1.0
45-64	2.0	2.1	2.2	2.3	2.4	2.5
65+	3.5	3.8	4.1	4.4	4.7	5.0

**LOVING HIM TO DEATH**

Mairi Twalib is a five-year-old boy living in a poor rural area of the Kilimanjaro District of the United Republic of Tanzania. Health workers from a nearby medical centre spotted his weight problem last year during a routine community outreach activity. The diagnosis was clear: childhood obesity. One year later, Mairi's weight hasn't changed for the better and neither has his excessive consumption of porridge and animal fat. His fruit and vegetable intake also remains seriously insufficient – "it is just too hard to find reasonably priced products during the dry season, so I can't manage his diet," his mother Fadilla complains.

The community health workers who recently visited Mairi for a follow-up also noticed that he was holding the same flat football as before – with the word "health" stamped on it. Mairi's neighbourhood is littered with sharp and rusted construction debris and the courtyard is too small for him to be able to play ball games. In fact, he rarely plays outside. "It is simply too hazardous. He could get hurt," his mother says.

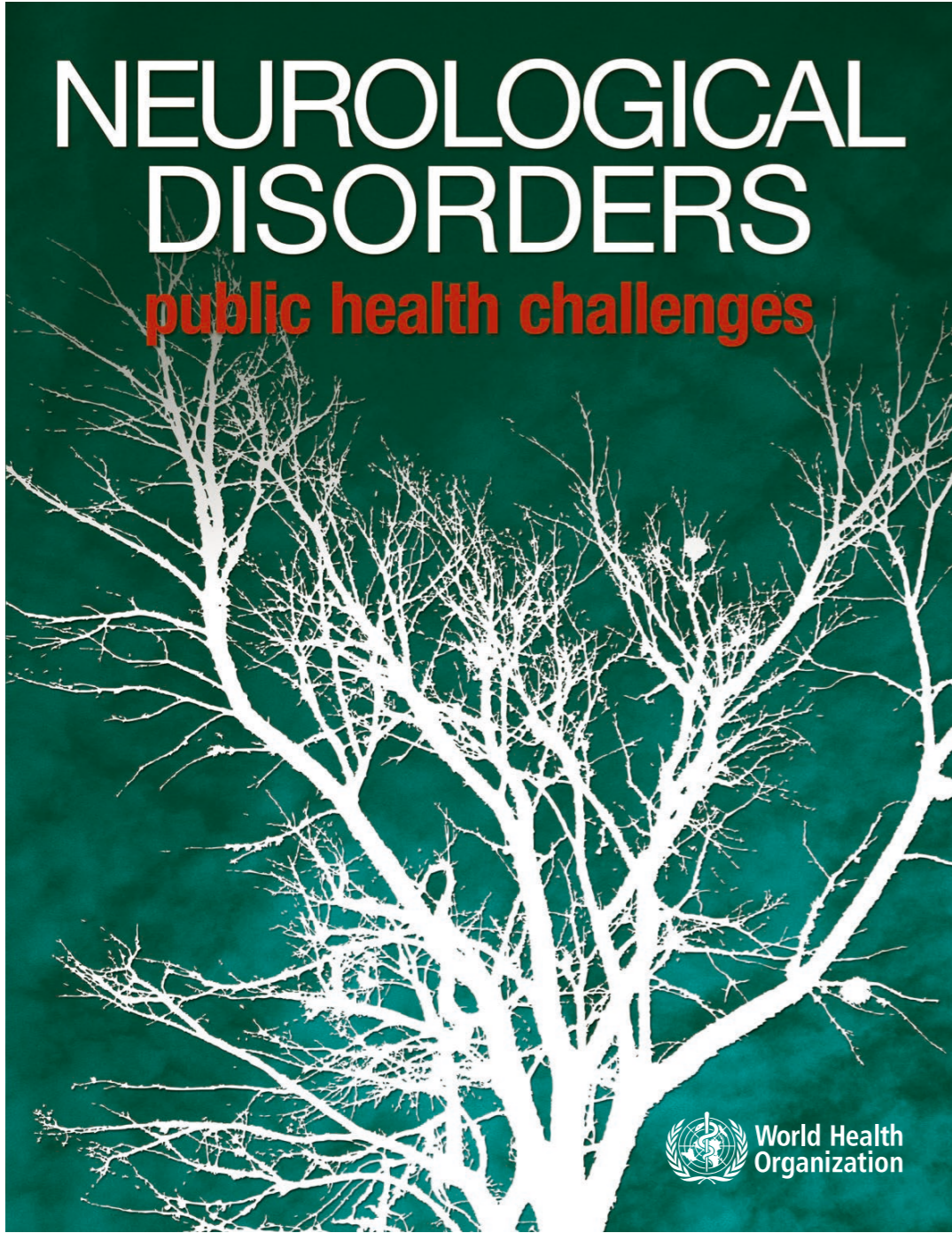
Fadilla, who is herself obese, believes that there are no risks attached to her son's obesity and that his weight will naturally go down one day. "Rounded forms run in the family and there's no history of chronic diseases, so my make a big fuss of all this," she argues with a smile on her face. In fact, Mairi and Fadilla are at risk of developing a chronic disease as a result of their obesity.

**WHAT WORKS?**

**SÃO PAULO, BRAZIL** – "Agito São Paulo" is an innovative plan developed by the State of São Paulo to encourage people to be more physically active. It promotes messages about the health benefits of physical activity through partner institutions and their networks and coordinates activities and large-scale events for the 37 million people living in the state. The government has invested the equivalent of only US\$ 0.5 per inhabitant per year – and yet the programme has already shown positive results.

**BOGOTÁ, COLOMBIA** – Bogotá has made significant improvements in the physical environment and infrastructure of the city in order to promote physical activity. Some 120 km of streets are closed to traffic on Sundays and holidays and turned into recreational spaces. The city has implemented policies to reduce the use of cars and has built an extensive network of bike paths.

**UNITED KINGDOM** – The "Feed Me Better" school meals campaign led to greater national awareness and action that resulted in a major budget increase and the setting of national standards for school meals. Consumption of fruit and vegetables will be given priority, and junk food will be banned from schools.



Book design  
Table design  
Graphs and Maps

Neurological Disorders:  
Public Health Challenges,  
228 pages.



## CHAPTER 1

# public health principles and neurological disorders

in this chapter	
8	Principles of public health
9	Epidemiology and burden
9	Health promotion and disease prevention
12	Health policy
14	Service provision and delivery of care
16	Disability and rehabilitation
20	Stigma
22	Education and training
23	Conclusions

This chapter explains briefly the principles of public health, epidemiology and the burden of disease, and the ways in which health promotion and disease prevention are achieved. It looks at risks to health and prevention strategies, and explains what health policy means. It then describes the goals and functions of health systems and in particular considers service provision for neurological disorders.

As many neurological disorders result in considerable morbidity, special attention is paid to disability and rehabilitation. The all-important part played by stigma in neurological disorders is assessed and, finally, education and training in neurology are discussed.

Many distinctions can be made between the practice of public health and that of clinical neurology. Public health professionals approach neurology more broadly than neurologists by monitoring neurological disorders and related health concerns of entire communities and promoting healthy practices and behaviours among them to ensure that populations stay healthy. Public health specialists focus on health and disease of entire populations rather than on individual patients, whereas neurologists usually

treat one patient at a time for a specific neurological condition. These two approaches could be seen as being almost at the opposite ends of the health-care spectrum. What this chapter aims to do is to help build bridges between these two approaches and serve as a useful guide to the chapter that follows — on the public health aspects of specific neurological disorders.

194 Neurological disorders: public health challenges

Table A.4.3 Deaths attributable to neurological disorders, by cause, WHO region and mortality stratum, projections for 2005, 2015 and 2030

Region	2005	2015	2030	2005	2015	2030	2005	2015	2030
World	11.67	11.84	12.22	11.67	11.84	12.22	11.67	11.84	12.22
Africa (AFR)	0.22	0.21	0.19	0.22	0.21	0.19	0.22	0.21	0.19
Americas (AMR)	0.73	0.81	0.92	0.73	0.81	0.92	0.73	0.81	0.92
Europe (EUR)	0.18	0.20	0.23	0.18	0.20	0.23	0.18	0.20	0.23
South-East Asia (SEAR)	0.03	0.03	0.02	0.03	0.03	0.02	0.03	0.03	0.02
Western Pacific (WPR)	9.90	10.19	10.63	9.90	10.19	10.63	9.90	10.19	10.63

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3.3 Headache disorders

Headache is a painful feature of a relatively small number of primary headache disorders, some of which are widespread and are often life-long conditions. Headache also occurs as a characteristic symptom of many other conditions, these are termed secondary headache disorders. Collectively, headache disorders are among the most common disorders of the nervous system, causing substantial disability in populations throughout the world.

Figure 3.3.1 Population-based epidemiological studies of migraine

Figure 3.3.2 Population-based epidemiological studies of headache disorders

Figure 3.3.3 Population-based epidemiological studies of headache disorders

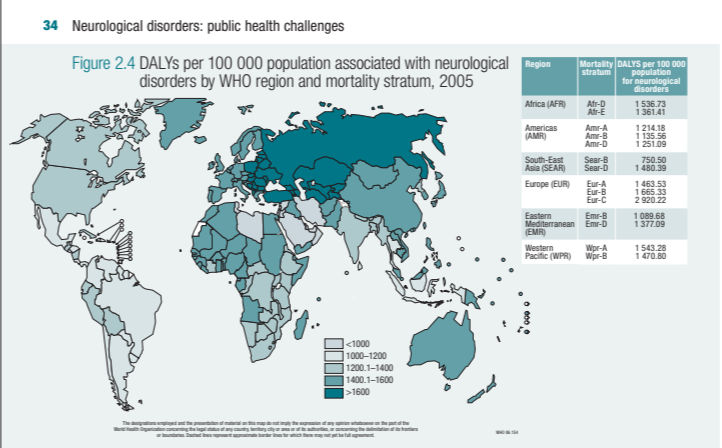


Table 2.6 Neurological disorders as percentage of total DALYs by WHO region, 2005

Cause category	World (%)	WHO region					
		AFR (%)	AMR (%)	SEAR (%)	EUR (%)	EMR (%)	WPR (%)
Epilepsy	0.50	0.46	0.73	0.46	0.40	0.54	0.44
Alzheimer and other dementias	0.75	0.10	1.47	0.26	2.04	0.42	1.32
Parkinson's disease	0.11	0.02	0.22	0.07	0.30	0.06	0.15
Multiple sclerosis	0.10	0.03	0.17	0.08	0.20	0.09	0.15
Migraine	0.52	0.13	0.97	0.41	0.80	0.51	0.73
Cerebrovascular disease	3.46	1.11	3.10	1.93	7.23	2.69	6.81
Poliomyelitis	0.01	0.00	0.00	0.01	0.00	0.01	0.01
Tetanus	0.44	0.77	0.01	0.81	0.00	0.54	0.10
Meningitis	0.36	0.24	0.39	0.81	0.24	0.43	0.24
Japanese encephalitis	0.04	0.00	0.00	0.05	0.00	0.06	0.09
Total	6.29	2.86	7.06	4.90	11.23	5.34	10.04

Figure 2.5 Deaths from selected neurological disorders as percentage of total neurological disorders

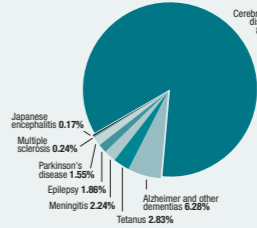
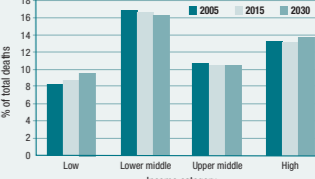
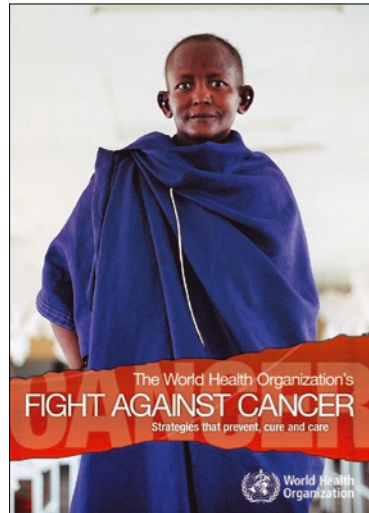


Figure 2.6 Neurological disorders as percentage of total DALYs for 2005, 2015 and 2030 across World Bank income category



These are **samples** that show what we can do.  
They are **heuristic** for what we can do **for you**.

The World Health Organization's  
Fight Against Cancer:  
Strategies That Prevent,  
Cure and Care.  
Cover and inside pages.



## GLOBAL ACTION PLAN AGAINST CANCER CAN SAVE MILLIONS OF LIVES

WHO knows how to stop millions of people dying needlessly from cancer. Our task is to support Member States to make this happen.



WHO's Global Action Plan Against Cancer combines the organization's existing strengths and strategies to increase its capacity to face this global public health problem. It provides guidance to governments, health providers and other stakeholders on how to prevent and cure the chronic disease, as well as care for those for whom palliative is the only option. "It is possible, even in very economically-constrained environments, to be effective in preventing cancer and improving access to quality services for patients who need such services," says Dr Catherine Le Guais-Caneu, WHO's Assistant Director-General for Noncommunicable Diseases and Mental Health. Every year, at least 7 million people die from cancer, more than HIV/AIDS, malaria and tuberculosis combined. And almost half of these deaths are avoidable. The high prevalence of cancer is especially troubling for developed nations to poorer, less medically-equipped countries.

But WHO's many departments and experts have developed a wide range of strategies to end this needless suffering. These measures prevent and cure many cancers, provide palliative care for the terminally ill, and measure and manage the disease's impact and services to fight it. All these efforts are being consolidated in WHO's Global Action Plan Against Cancer. This multi-faceted approach will ensure that these strategies are addressed at every level with national cancer control programmes (NCCPs), which are being implemented in over 100 countries. To ensure that these strategies succeed, WHO must keep working closely with global partners, ranging from collaborating centres (WHO's network of 15 governmental and non-governmental organizations in cancer-related fields like tobacco and immunization). We also work hand-in-hand with a host of UN bodies, like the International Atomic Energy Agency on the joint Program of Action for Cancer Therapy (PACT) in Albania, Nicaragua, Sri Lanka and the United Republic of Tanzania. WHO has also formed a Commission on Social Determinants of Health to promote equal access to preventive and curative health services for all people, irrespective of their social or economic backgrounds.

In January 2015, WHO's cancer control medical officer within the Department of Chronic Diseases and Health Promotion, says the Action Plan can help governments prevent deaths from cancer by educating prevention and control programmes at the highest political level. Every country, regardless of resource level, can consistently take steps to curb the cancer epidemic," Uthman says. "They can save lives and prevent unnecessary suffering caused by cancer."

Tobacco use and exposure causes 1.6 million cancer deaths annually. Chronic hepatitis B infection kills 340 000 from liver cancer and cirrhosis. A quarter of a million women die from cervical cancer. Vaccines exist to prevent most of these deaths. Occupational carcinogens kill at least 152 000 people. Some 274 000 people who are overweight, obese or physically inactive die from cancer. Hereditary alcohol causes 253 000 cancer deaths. Indoor and outdoor air pollution leads to 71 000 cancer deaths, according to WHO's Comparative Risk Assessment publications ([www.who.int/dietphysicalactivity](http://www.who.int/dietphysicalactivity)). The human price is not the only loss caused by cancer. It is responsible for economic costs to health systems, insupportable economic and emotional burdens on families and irreparable losses for communities.

**WHO CANCER FIGHTERS**  
Dr Catherine Le Guais-Caneu, Assistant Director-General for Noncommunicable Diseases and Mental Health

**WHO CANCER FIGHTERS**  
Dr Andrea Uthman, Medical Officer, Cancer Control

## HOW WHO FIGHTS CANCER

Reading this brochure, you'll be given a dynamic glimpse of the many cancer control activities WHO performs. Each activity fits within the four broad approaches WHO takes to fight cancer: Prevention, Cure, Care and Manage. WHO's intensive efforts have produced dozens of strategies, recommendations and technical programmes to combat

**PREVENT**  
WHO develops and supports efforts to prevent cancer, which can reduce cancer deaths by 40% and prevent untold suffering and cost to communities, increasingly in the developing world. This brochure examines each WHO programme dealing with cancer prevention and how they go about it. Reducing tobacco and alcohol use are key goals, as are improving diets and physical activity. Safeguarding workplaces against carcinogens, and advocating immunizations against the hepatitis B virus play enormous roles in reducing the cancer burden. They are all discussed in the Prevention section.

**CARE**  
WHO provides vital support and guidance to register cancer, offer treatment and palliative care for the terminally ill. WHO has consolidated these tools for countries in a framework known as the national cancer control programme (NCCP), which focuses government attention and services on all facets of the fight against cancer.

**MANAGE**  
Providing information and cancer burden for strengthening evidence-based policy is a core WHO function. We assist countries to assess, implement and measure the success of their NCCPs. Each work also helps identify challenges and effective resources, towards effective cancer prevention and control strategies. This brochure examines the different, yet coordinated, departments playing crucial roles in developing necessary data and providing policy options to ensure people benefit from NCCP.

**CURE**  
Through early detection, screening and adequate treatment, many cancers can be cured. WHO helps countries scale up these efforts. WHO provides countries, particularly in the developing world, access to the most appropriate technologies, medicines and training to perform potentially life-saving treatments. This brochure looks at what different programmes are doing to build this cancer-fighting capacity in the field.

# CURE & CARE



**WHO CANCER FIGHTERS**  
Prof. Charles Gilks, Coordinator, Antiretroviral Treatment and HIV Care

## VICTORIES OVER AIDS BRING CANCER BURDEN INTO FOCUS

Success in scaling up access to HIV/AIDS treatment has set the world a new challenge: protecting people with the virus from succumbing to long-term chronic diseases like cancer.

Combination antiretroviral therapies work by suppressing the AIDS virus, in turn enabling people with the disease to enjoy longer and more productive lives. "We are getting lots of people on treatment, thereby lengthening their lives," says Prof. Charles Gilks, Coordinator of Antiretroviral Treatment and HIV Care for WHO's HIV/AIDS Department. "But the consequence is that HIV-associated cancers become more and more important."

WHO supports Kaposi sarcoma treatment and is planning next steps for other HIV/AIDS-related cancers, says Gilks. Such measures could include scaling up cervical cancer screening as part of the HIV/AIDS treatment programme. Other cancers linked to HIV/AIDS include lymphomas and cancers of the lung, skin and liver. WHO's Department of HIV/AIDS promotes WHO's palliative care guidelines for general symptom relief for HIV/AIDS patients, particularly the terminally ill. These guidelines are being widely implemented through hospices. "The success we have had in getting people onto treatment programmes has turned AIDS into a chronic disease, which means we will have a new pattern of morbidity and mortality and a lot of it will be from cancer," Gilks says.

With this in mind, WHO is focusing more on chronic disease prevention for people living with HIV/AIDS. Primary prevention measures like recommending people living with HIV/AIDS use condoms have led to a reduction in Kaposi sarcoma, a common form of cancer in HIV-positive people linked with a sexually-transmitted herpes-like virus.

[www.who.int/hiv](http://www.who.int/hiv)



## Years of work have resulted in global strategies being crafted and implemented to improve health, and prevent and control cancer.

These strategies, requested by the World Health Organization's own Member States, provide a strong foundation for a determined fight against the disease. Jointly, they will form the basis of our Global Action Plan Against Cancer.

Despite these efforts, WHO and its Member States still face great challenges to defeat the global burden of cancer. Greater investment in prevention, cure and care, closer collaboration with international partners and stronger determination to defeat cancer are needed to fuel what must be a continuous, sustainable campaign. Cancer is the world's second biggest killer after cardiovascular diseases, but one of the most preventable noncommunicable chronic diseases. Cancer killed 7.6 million people in 2005, three quarters of whom were in low- and middle-income countries. By 2015, that number is expected to rise to 9 million and increase further to 11.5 million in 2020.

Up to 40% of all cancer deaths can be avoided by reducing tobacco use, improving diets and physical activity, lowering alcohol consumption, eliminating workplace carcinogens and immunizing against hepatitis B virus and the human papillomavirus.

A large proportion of cancer can be cured and all cancer patients deserve care. WHO provides support to strengthen health services to cure and care for cancer patients by improving primary and specialized health care. WHO makes essential medicines and technologies available for cancer treatment and palliative care. Our strategies and policy guidelines help governments in all countries to improve population health standards and reduce national cancer burdens.

Backed by World Health Assembly resolution 58.22 of 2005 on cancer prevention and control, WHO is committed to a Global Action Plan Against Cancer that will enhance synergies both across WHO and with our international partners to reduce the physical, social and economic burden of cancer worldwide.

**Dr Margaret Chan**  
Director-General

# 40%

of all cancer deaths can be prevented

Cancer killed 7.6 million people in 2005, three quarters of whom were in low- and middle-income countries

[www.who.int/cancer/en/](http://www.who.int/cancer/en/)

## WHO REDUCES IONIZING RADIATION-RELATED CANCER

WHO's efforts to reduce harmful exposure to ionizing radiation, from radon to nuclear emergencies, are preventing cancer.

**WHO CANCER FIGHTERS**  
Dr David H. Schotten, Radiation and Environmental Health

WHO is a key player in helping countries to prevent cancer caused by ionizing radiation, such as radon, nuclear accidents and nuclear emergencies. WHO provides technical support and training to help countries to reduce exposure to ionizing radiation, such as radon, nuclear accidents and nuclear emergencies. WHO provides technical support and training to help countries to reduce exposure to ionizing radiation, such as radon, nuclear accidents and nuclear emergencies.

**WHO CANCER FIGHTERS**  
Dr David H. Schotten, Radiation and Environmental Health

## WHO SHEDS LIGHT ON RISKS OF SOLAR RAYS, SUNBURNS

WHO's efforts to reduce harmful exposure to ionizing radiation, from radon to nuclear emergencies, are preventing cancer.

**WHO CANCER FIGHTERS**  
Dr David H. Schotten, Radiation and Environmental Health

WHO is a key player in helping countries to prevent cancer caused by ionizing radiation, such as radon, nuclear accidents and nuclear emergencies. WHO provides technical support and training to help countries to reduce exposure to ionizing radiation, such as radon, nuclear accidents and nuclear emergencies.

## PREVENT

### WHO TOBACCO CONVENTION CRUCIAL TO CANCER PREVENTION

Quitting tobacco is the best way to reduce cancer. To help make this happen, WHO develops and helps implement powerful tobacco controls.

**WHO CANCER FIGHTERS**  
Dr Douglas Bettcher, Acting Director, Tobacco Free Initiative

More than 100 countries have signed the WHO Framework Convention on Tobacco Control (FCTC), the first international treaty negotiated by governments. The FCTC aims to reduce tobacco use and consumption, thereby reducing the global burden of cancer and other diseases caused by tobacco. WHO provides technical support and training to help countries to implement the FCTC.

**WHO CANCER FIGHTERS**  
Dr Douglas Bettcher, Acting Director, Tobacco Free Initiative

### WHO DIET, PHYSICAL ACTIVITY AND HEALTH STRATEGY TACKLES CANCER

Eating well and staying active are keys to leading healthier lives and minimizing the risks of chronic conditions like cancer.

**WHO CANCER FIGHTERS**  
Dr David H. Schotten, Radiation and Environmental Health

WHO provides technical support and training to help countries to implement the WHO Diet, Physical Activity and Health Strategy. This strategy aims to reduce the global burden of cancer and other diseases caused by diet and physical inactivity. WHO provides technical support and training to help countries to implement the WHO Diet, Physical Activity and Health Strategy.

## MANAGE

### WHO NATIONAL CANCER CONTROL PROGRAMMES PROVIDE HOLISTIC CANCER GUIDANCE

Many countries are already putting WHO's cancer-fighting tools to use in their efforts to reduce the cancer burden.

**WHO CANCER FIGHTERS**  
Dr David H. Schotten, Radiation and Environmental Health

WHO provides technical support and training to help countries to implement the WHO National Cancer Control Programme. This programme aims to reduce the global burden of cancer and other diseases caused by cancer. WHO provides technical support and training to help countries to implement the WHO National Cancer Control Programme.

### WHO SUPPORTS ALBANIA IN LAUNCHING ITS OWN NCCP

Albania has launched its first national cancer control programme (NCCP) in 2015, marking a significant milestone in the country's fight against cancer. WHO provides technical support and training to help Albania to implement the NCCP.

**WHO CANCER FIGHTERS**  
Dr David H. Schotten, Radiation and Environmental Health

### WHO PROMOTES PALLIATIVE CARE FOR CANCER PAIN RELIEF

While urging countries to do everything possible to prevent and control cancer, WHO demands equal effort to promote palliative care for people for whom cure is not possible.

**WHO CANCER FIGHTERS**  
Dr David H. Schotten, Radiation and Environmental Health

WHO provides technical support and training to help countries to implement the WHO Guidelines for the Management of Cancer Pain. These guidelines aim to reduce the global burden of cancer and other diseases caused by cancer. WHO provides technical support and training to help countries to implement the WHO Guidelines for the Management of Cancer Pain.

### WHO MEDICINAL ADVICE CURES, CARES FOR CANCER PATIENTS

WHO provides technical support and training to help countries to implement the WHO Guidelines for the Management of Cancer Pain. These guidelines aim to reduce the global burden of cancer and other diseases caused by cancer. WHO provides technical support and training to help countries to implement the WHO Guidelines for the Management of Cancer Pain.

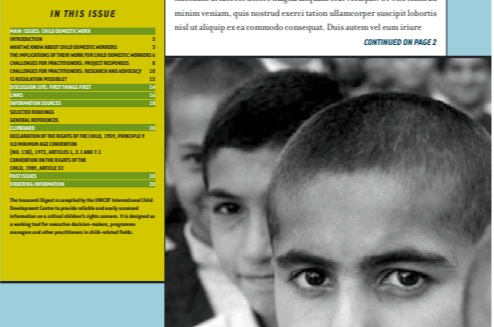
**WHO CANCER FIGHTERS**  
Dr David H. Schotten, Radiation and Environmental Health

These are **samples** that show what we can do.  
They are **heuristic** for what we can do **for you**.

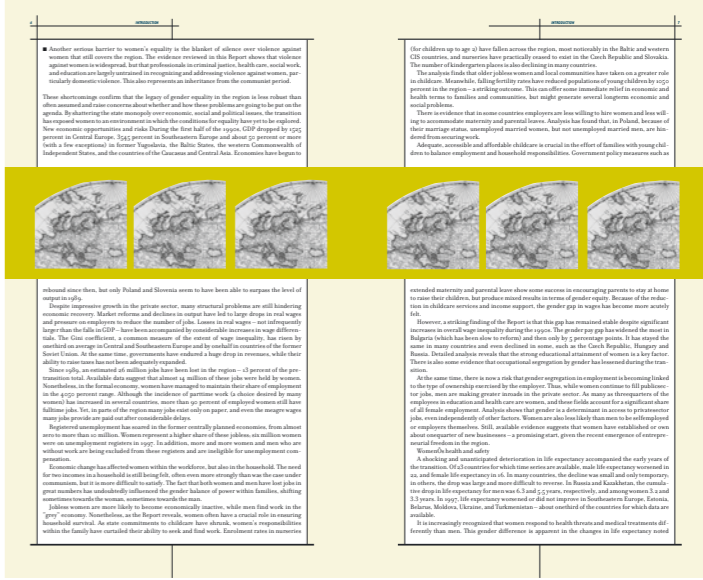
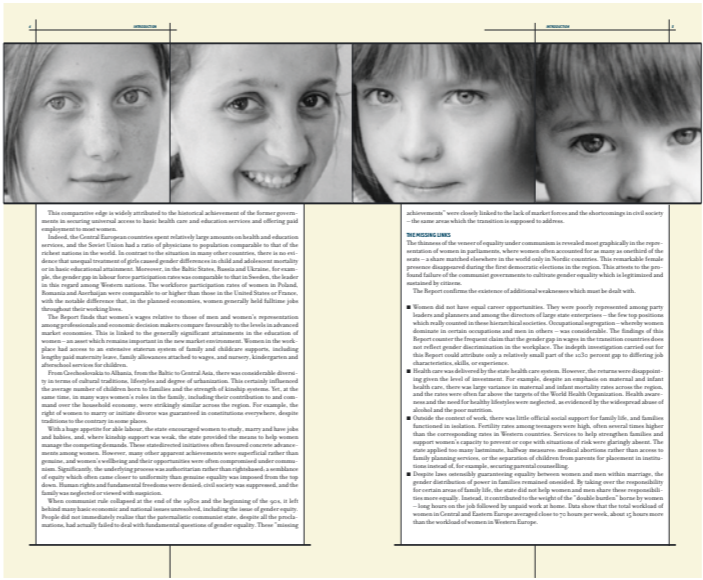
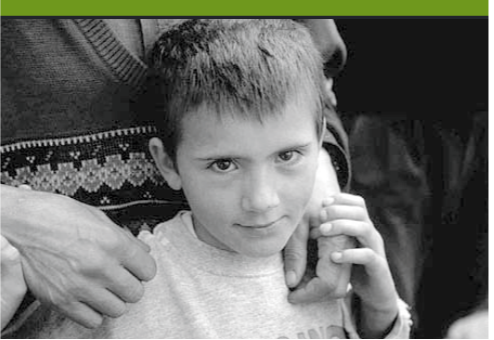
UNICEF International Child Development Centre,  
excerpts form a design proposal.



## Visual identity system



## WOMEN IN TRANSITION



Color and tonal variations

# Newborn Health

The first few days and weeks of life are among the most critical for child survival. Every year, an estimated 4 million children die during the first month of life. Almost all of these deaths (98%) occur in developing countries.

Most neonatal deaths are due to low birth weight, asphyxia and infections such as sepsis, tetanus and pneumonia. An estimated two-thirds of these deaths could be prevented or treated with proven, cost-effective interventions that already exist. About half of these deaths occur at home, often among newborns who have had no contact with a health care provider.

## KEY AREAS OF WORK

Causes of death Breast feeding HIV and infant feeding Millennium Development Goals 10 years of IMCI strategy Newborn guidelines

### Causes of deaths of newborns, developing countries, 2004-2007

Cause	Percentage
Infectious diseases	35%
Malnutrition	37%
Non-infectious diseases	20%
Other	8%

### Millenium Development Goals: How are we doing?

Tracking of global progress towards the MDGs reveals that seven of the 60 highest-mortality rate countries are on track to meet MDG4 (Bangladesh, Brazil, Egypt, Indonesia, Mexico, Nepal and the Philippines). 39 countries are making some progress but they need to accelerate, and 14 are cause for serious concern (see Figure).

Although rates of coverage for some interventions are improving, for many interventions it remains low, and coverage rates for the most part have no indication of the quality of the interventions.

### HIV and infant feeding

In October 2006, on behalf of the Inter-agency Task Team (IATD) on Prevention of HIV Infections in Pregnant Women, Mothers and their Infants, WHO held a technical consultation in Geneva on HIV and infant feeding. The participants included researchers, programme managers, infant feeding experts, representatives of relevant UN agencies, AFRO, and six WHO departments. The aim was to review the substantial body of new evidence and most recent experience regarding HIV and infant feeding and to clarify and refine the existing UN recommendations.

## Child and Adolescent Health and Development Progress Report 2007

# Breastfeeding

While evidence of the short-term benefit is of breastfeeding – a reduction in early childhood illness and deaths due to infectious diseases – is well-established, the jury was still out on the long-term protective health benefit. However, a new analysis carried out in 2006 suggests that adults who were breastfed as children may be healthier and more intelligent than adults who were not.

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### Guidelines for planning based on Newborn Health Framework

In 2006, WHO worked in collaboration with UNICEF and the Saving Newborn Lives initiative to develop tools to build the capacity of national programme managers to strengthen the newborn health component in maternal and child health programmes and in related programmes including family planning, nutrition, malaria and HIV. The tools – which are based on the steps outlined in the recently revised Newborn Health Framework and Guidelines for Planning – are used during a one-week workshop for programme managers.

This includes a focus on: situation analysis, prioritizing and packaging interventions; setting realistic coverage targets; and planning for implementation. During 2006, two capacity development workshops, involving 14 African countries, were held. During 2006, two capacity development workshops, involving 14 African countries, were held. During 2006, two capacity development workshops were held.

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The results of MCE indicate that:

- IMCI improves health worker performance and their quality of care;
- IMCI can reduce under-five mortality and improve nutritional status, if implemented well;
- IMCI is worth the investment, as it costs up to six times less per child correctly managed than current care;
- child survival programmes require more attention to activities that improve family and community behaviour;
- the implementation of child survival interventions needs to be complemented by activities that strengthen system support;
- a significant reduction in under-five mortality will not be attained unless large-scale intervention coverage is achieved.

## Brochure design

# Visual identity system

Child and Adolescent Health and Development: Progress Report 2006-2007, 2008, design development for the Department's new visual identity.

### CHILDREN

**Scaling up health services**

Scaling up health services is a health service that aims to ensure that all children have access to health services. This is a health service that aims to ensure that all children have access to health services.

**Meeting the needs of pregnant adolescents**

Adolescent pregnancy is a health service that aims to ensure that all pregnant adolescents have access to health services. This is a health service that aims to ensure that all pregnant adolescents have access to health services.

**Paediatric HIV**

Paediatric HIV is a health service that aims to ensure that all children with HIV have access to health services. This is a health service that aims to ensure that all children with HIV have access to health services.

**PNEUMONIA**

Pneumonia is a health service that aims to ensure that all children with pneumonia have access to health services. This is a health service that aims to ensure that all children with pneumonia have access to health services.

**New approaches to training health workers**

New approaches to training health workers is a health service that aims to ensure that all health workers have access to health services. This is a health service that aims to ensure that all health workers have access to health services.

### ADOLESCENTS

**Scaling up adolescent health services in Mozambique**

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**Case study**

Case study is a health service that aims to ensure that all adolescents have access to health services. This is a health service that aims to ensure that all adolescents have access to health services.

# Newborn Health

The first few days and weeks of life are among the most critical for child survival. Every year, an estimated 4 million children die during the first month of life. Almost all of these deaths (98%) occur in developing countries.

Most neonatal deaths are due to low birth weight, asphyxia and infections such as sepsis, tetanus and pneumonia. An estimated two-thirds of these deaths could be prevented or treated with proven, cost-effective interventions that already exist. About half of these deaths occur at home, often among newborns who have had no contact with a health care provider.

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# ADOLESCENTS

In 2006-2007, the Department of Child and Adolescent Health and Development advocated for a comprehensive, multi-sectoral approach to improving adolescent health and development. Our particular focus was on supporting ministries of health to play a stewardship role to strengthen the contribution of the health sector in four key areas:

1. Gathering and using strategic information;
2. Developing supportive, evidence-informed policies;
3. Scaling up the provision of health services and commodities; and
4. Strengthening action in other sectors and civil society.

We used HIV and reproductive health as entry points to strengthen the health sector's response to adolescents' needs in these as well as other areas of public health importance such as nutrition, mental health, substance use and violence.

In 2006-2007 we have worked to generate evidence, to develop test methods and tools to support programmatic action in countries, to build a common sense of purpose with key players within and outside the United Nations system, and to build capacity and to support and document country-level action. Highlights of this work are described below.

## 1 Strategic information

Gathering and using strategic information is central to ensure that programming efforts are focused on the right issues, and that their effects are measured. One highlight of our work in 2006-2007 is described below.

### Fact Sheets

In 2006-2007 we worked with partners to achieve global consensus on a set of 16 indicators to track progress on global goals and targets for young peoples' access to health services for preventing HIV and reproductive health problems. We then mined sources of internationally comparable data and compiled a package of fact sheets on each of the 16 indicators:

1. Institutionalizing youth-friendly health services
2. Condom use by young people at last highest risk sex; condom use among young injecting drug users who had sex in the past one month
3. HIV testing behaviour among young people
4. Condom availability for young people
5. Knowledge of a formal source of condoms among young people
6. Access to HIV testing and counselling services by young people
7. Perception of access to condoms by young people
8. Use of specified health services by young people
9. Young people seeking treatment for sexually transmitted infections
10. Intervention sites with a minimum package of HIV prevention services in 'hotspots' where most-at-risk young people are present in greater numbers

## 2 Supportive, evidence-informed policies

Sound policies are essential for developing programmes and delivering health services that meet the needs of adolescents. Those policies must be evidence-based if they are to be effective. Two highlights of our work in 2006-2007 are described below.

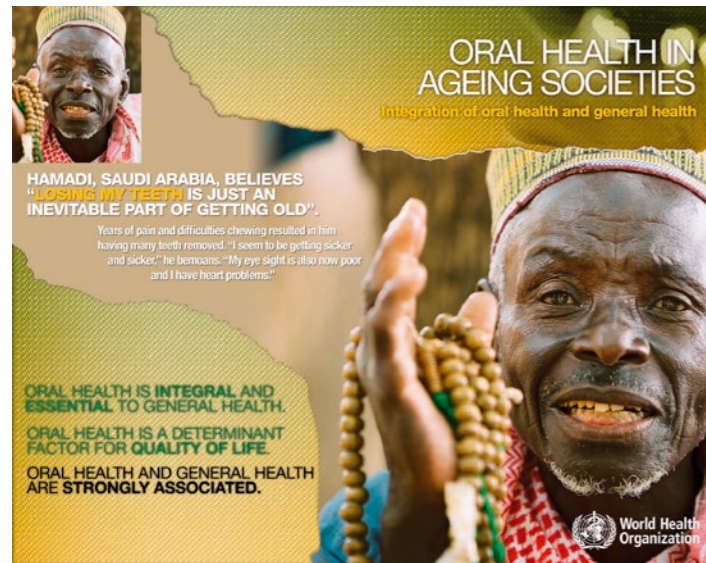
### Steady, Ready, Go!

Forty per cent of all new HIV infections around the world in 2006 occurred among 15-24 year olds. Over a two year period, we conducted a systematic review of the evidence from developing countries on the effectiveness of interventions for preventing HIV/AIDS in young people which are delivered through schools, health services, mass media, communities, and to young people who are most vulnerable to HIV infection. In 2006 we published a report which classifies these interventions into three categories:

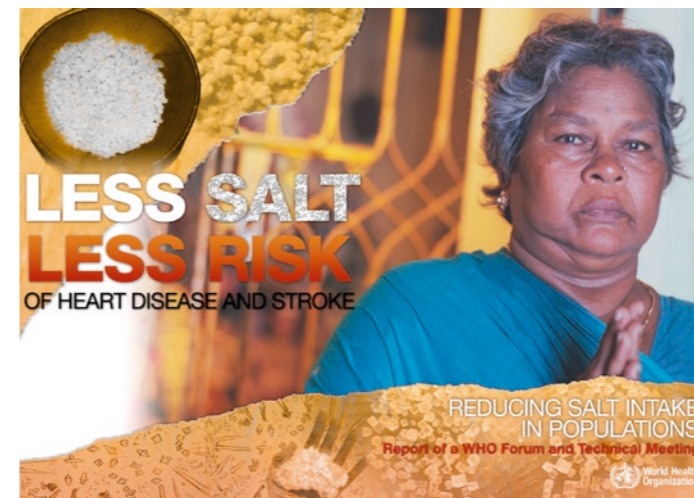
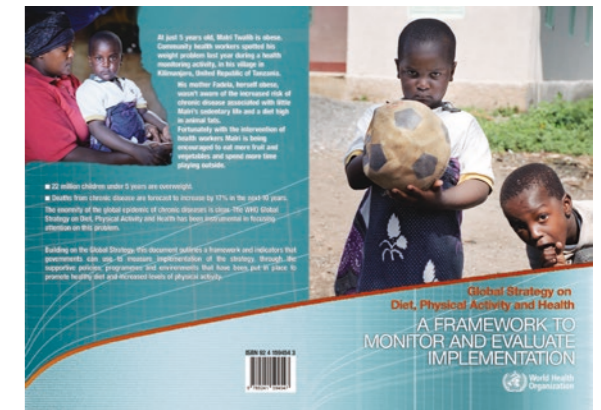
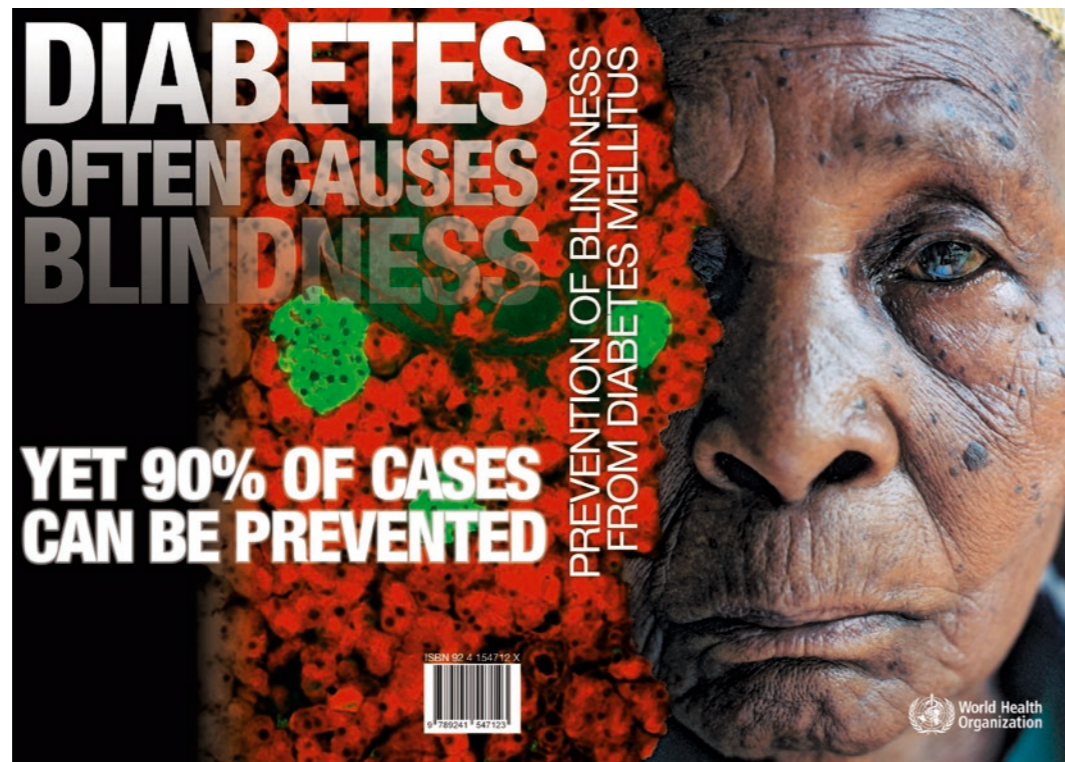
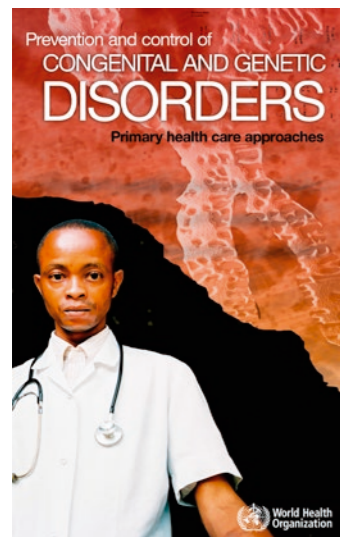
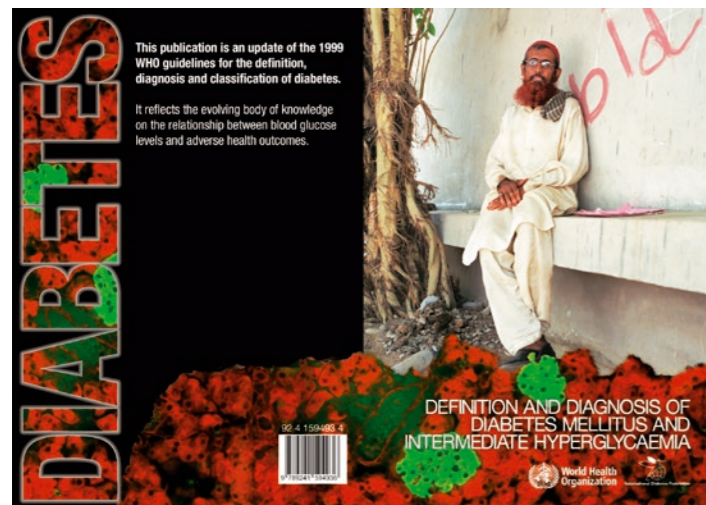
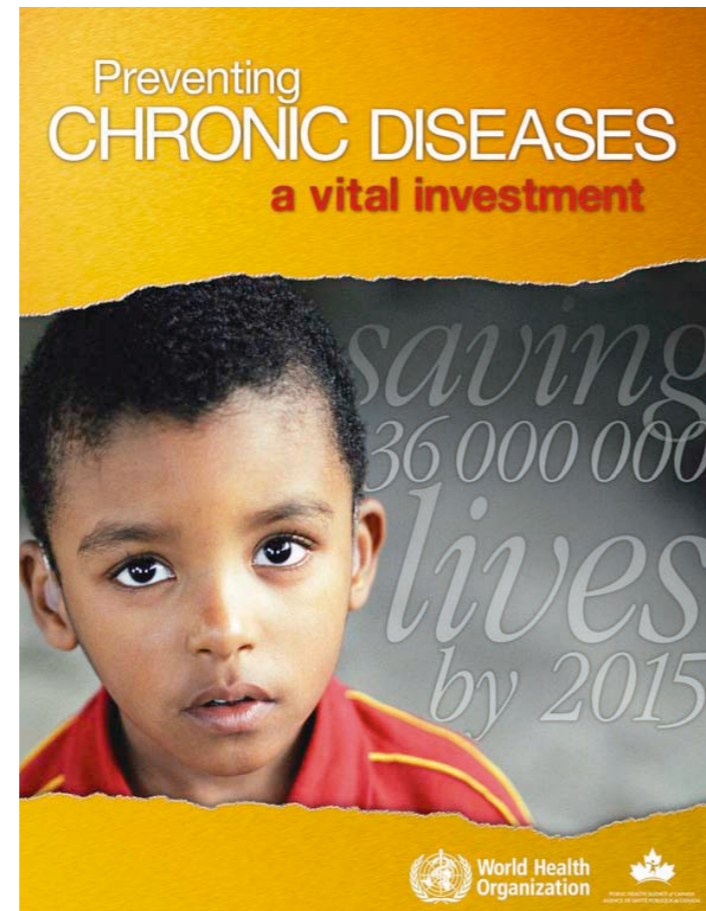
- **Steady** – don't implement yet, needs more work and evaluation;
- **Ready** – implement widely, but evaluate carefully;
- **Go** – implement on a large scale while monitoring coverage and quality.

In 2007, we followed-up with a series of policy briefs which synthesized the recommendations for policy-makers, programme managers and researchers to guide their efforts to increase access to information, skills and services in order to reduce the rate of HIV infection among young people.

Cover design  
Visual identity system



Cover series for the Department of Chronic diseases and health promotion (CHP).



Brochure design

Milestones of a Global Campaign for Violence Prevention,  
32 pages, in English and French.



RECOMMENDATION  
**1** Create, implement and monitor a national action plan for violence prevention

National planning to prevent violence should be based on a consensus developed by a wide range of governmental and non-governmental actors. It should enable collaboration between sectors that might contribute to preventing violence, such as the criminal justice, education, labour, health and social welfare sectors. As a follow up to the launch of the *World report on violence and health*, the following steps have been taken:

1 2 3  
4 5 6  
7 8 9

THE GLOBAL CAMPAIGN FOR VIOLENCE PREVENTION SERVES AS THE MAIN PLATFORM FOR IMPLEMENTING THE RECOMMENDATIONS OF THE WORLD REPORT ON VIOLENCE AND HEALTH. APART FROM THE INITIATIVES ALREADY MENTIONED, THE FOLLOWING GIVES A BRIEF OVERVIEW OF SOME OF THE ADDITIONAL ACTIVITIES THAT HAVE TAKEN PLACE IN THE CONTEXT OF THE IMPLEMENTATION OF EACH OF THE REPORT'S RECOMMENDATIONS.



2 MILESTONES OF A GLOBAL CAMPAIGN FOR VIOLENCE PREVENTION

**Violence cuts short the lives of millions of people across the world each year, and damages the lives of millions more. It knows no boundaries of geography, race, age or income. It strikes at children, young people, women and the elderly. It finds its way into homes, schools and the workplace. Men and women everywhere have the right to live their lives and raise their children free from the fear of violence. We must help them enjoy that right by making it clearly understood that violence is preventable, and by working together to identify and address its underlying causes.**

— Kofi Annan, Secretary-General, United Nations, Nobel Peace Laureate, 2001

The *World report on violence and health* is the result of three years of work, involving more than 170 experts from approximately 60 countries, led by an Editorial Committee composed of Drs Etienne Krug, Linda Dahlberg, James Mercy, Anthony Zwi and Rafael Lozano. The report shows that, in the year 2000, an estimated 815,000 people died by suicide, 520,000 people by homicide, and 310,000 people as a direct result of war-related injuries. Among people aged 15-44, violence accounted for 14% of male deaths and 7% of female deaths. Keeping in mind that one of the most common settings for violence is the home, studies suggest that approximately:

- 40-70% of female murder victims are killed by their husband or boyfriend,
- 545 children and young people aged 10-29 years die violently each day,
- 4-6% of older people experience some form of abuse in the home,
- 20% of women and 5-10% of men have suffered sexual abuse as children.

A major finding of the report is that no single factor explains why one individual, community or society is more or less likely to experience violence. Instead, it shows that violence is rooted in the interaction of factors, ranging from the biological to the political. The report captures this in an ecological model that organizes the risk factors for violence into four interacting

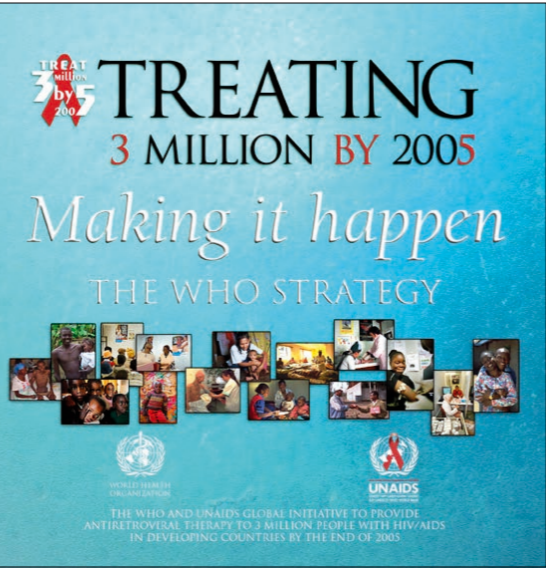
levels: the individual, close relationships, community contexts and societal factors. Individual-level risks include demographic factors such as age, income and education, psychological and personality disorders, alcohol and substance abuse, and a history of engaging in violent behaviour or experiencing abuse. Relationship-level risk factors include poor parenting practices and family dysfunction, marital conflict around gender roles and resources, and associating with friends who engage in violent or delinquent behaviour. At the community level, some of the risk factors are poverty, homelessness, unemployment, and the social isolation resulting from these issues and also affecting people who have to move frequently and thus have little sense of belonging to a community. The existence of a local drug trade, and weak police and programmes within institutions are also risk factors at this level. Societal level risks include economic, social, health, and education policies that maintain or increase economic and social inequalities, social and cultural norms which support the use of violence, the availability of firearms and other weapons, and weak criminal justice systems that leave perpetrators immune to prosecution. Interventions at all levels of the model are needed to prevent violence.

**This report makes a major contribution to our understanding of violence and its impact on societies. It illuminates the different faces of violence, from the "invisible" suffering of society's most vulnerable individuals to the all-too-visible tragedy of societies in conflict. It advances our analysis of the factors that lead to violence, and the possible responses of different sectors of society. And in doing so, it reminds us that safety and security don't just happen: they are the result of collective consensus and public investment.**

— Nelson Mandela, Former President of South Africa

MILESTONES OF A GLOBAL CAMPAIGN FOR VIOLENCE PREVENTION 3

The series of posters, *Violence in Red*, portrays striking close-ups of parts of the human body coloured in red, symbolizing the impact of violence on the body and on health in general. The text on the posters describes the large number of people directly affected by violence each year.



Brochure design

Treating 3 Million by 2005, 2003, 32 pages,  
in 6 official languages.

4

TREATING 3 MILLION BY 2005: MAKING IT HAPPEN

Of the 6 million people who currently urgently need antiretroviral therapy in developing countries, fewer than 8% are receiving it. Without rapid access to properly managed treatment, these millions of women, children and men will die.

This human toll and the accompanying social and economic devastation can be averted. The delivery of antiretroviral therapy in resource-poor settings, once thought impossible, has been shown to be feasible. The prices of antiretroviral

ESTIMATED PERCENTAGE OF ADULTS COVERED AMONG THOSE IN NEED OF ANTIRETROVIRAL TREATMENT, SITUATION AS OF NOVEMBER 2003

The descriptions employed and the presentation of material on this map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or state or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dashed lines represent approximate border lines for which there may not yet be full agreement.

5

BACKGROUND

COVERAGE OF ADULTS IN DEVELOPING COUNTRIES WITH ANTIRETROVIRAL THERAPY, BY WHO REGION, 2003

REGION	NUMBER OF PEOPLE ON TREATMENT	ESTIMATED NEED	COVERAGE
Africa	100 000	4 400 000	2%
Americas	210 000	250 000	84%
Europe (Eastern Europe, Central Asia)	15 000	80 000	19%
Eastern Mediterranean	5 000	100 000	5%
South-East Asia	60 000	900 000	7%
Western Pacific	10 000	170 000	6%
ALL WHO REGIONS	400 000	5 900 000	7%

drugs, which until recently put them far beyond the reach of low-income countries, have dropped sharply. A growing worldwide political mobilization, led by people living with HIV/AIDS, has educated communities and governments, affirming treatment as a human right. The World Bank has channelled increased funding into HIV/AIDS. New institutions such as the Global Fund to Fight AIDS, Tuberculosis and Malaria and ambitious bilateral programmes, including the United States Presidential Emergency Plan for AIDS Relief, have been launched, reflecting an exceptional level of political will and unprecedented resources for the HIV/AIDS battle. This unique combination of opportunity and political will must now be seized with urgent action.

In 2001, partners within the Joint United Nations Programme on HIV/AIDS (UNAIDS) and other organizations along with scientists at WHO calculated that, under optimal conditions, 3 million people living in developing countries could be provided antiretroviral therapy and access to medical services by the end of 2005. Nevertheless, treatment enrolment in afflicted countries continued to lag. On 22 September 2003, LEE Jong-wook, Director-General of WHO, joined with Peter Piot, Executive Director of UNAIDS and Richard Feachem, Executive Director of the Global Fund to Fight AIDS, Tuberculosis and Malaria to declare

34	TREATING 3 MILLION BY 2005: MAKING IT HAPPEN	ANNEX ONE	35
PILLAR ONE GLOBAL LEADERSHIP, STRONG		PARTNERSHIP AND ADVOCACY	
STRATEGIES	ACTION STEPS	VERIFIABLE INDICATORS	ASSUMPTIONS
1. Visible WHO leadership and commitment to urgent action to reach the goal of universal access to antiretroviral therapy	1a WHO exercises its leadership role in care and treatment within UNAIDS and sets an ambitious, time-bound numerical target 1b WHO highlights the need for urgent action  1c WHO identifies the 3 by 5 target as an institutional priority and realigns expertise and activities across the Organization to achieve this target  1d WHO commits additional resources to 3 by 5, while maintaining full support for its overall programme in HIV/AIDS, including prevention 1e WHO establishes internal mechanisms for coordination and connectivity across the Organization to support the 3 by 5 Initiative 1f WHO enables all staff to access antiretroviral therapy	1a Announcement of 3 by 5 target  1b Declaration that the antiretroviral therapy gap is a global health emergency 1c Commitment to 3 by 5 in all relevant fora, documents and policy statements New budget and appropriate resources devoted to 3 by 5, with more than 75% allocated to the regional and country levels 1d WHO HIV/AIDS budget for 2004-2005 Outputs and deliverables specific to HIV/AIDS  1e Establishment and activities of the internal steering group and cross-cluster task force Adequate information technology systems to connect WHO 1f Revision of staff treatment policy	■ WHO leadership endorsed and supported by UNAIDS and partners ■ 3 by 5 target adopted by UNAIDS and partners ■ Declaration of emergency accepted and acted on by WHO and UNAIDS ■ WHO commitment to 3 by 5 is maintained at the highest level and is manifested by concrete support from the entire Organization ■ Additional funding (US\$ 350 million) is secured for the 3 by 5 Initiative to be fully implemented
2. Locate the 3 by 5 Initiative within the broader development context	2a Develop guidelines for the ethical and equitable scaling up of antiretroviral therapy programmes in accordance with the 3 by 5 Initiative  2b Work with UNAIDS and partners to develop principles for implementing 3 by 5 programmes that promote gender equality, are inclusive of children and marginalized groups and maintain an overt pro-poor approach 2c Identify ways to link progress on 3 by 5 and beyond with relevant Millennium Development Goals and targets	2a Publication and use of ethics and equity guidelines  2b Publication and use of principles for 3 by 5 programmes Programme monitoring includes data on gender, age, socioeconomic status and marginalization 2c Progress on achieving relevant Millennium Development Goals is related and attributable to progress in 3 by 5 and beyond	■ Equitable and pro-poor approaches are formulated that high-burden countries can adopt and act upon ■ All donors recognize the importance of accelerated responses to scaling up antiretroviral therapy to mitigate the impact of HIV and to reverse declines in development indicators in high-burden countries ■ The specific contribution of 3 by 5 to achieving relevant Millennium Development Goals can be disaggregated and highlighted

Procedure		Considerations
Select <b>Scientific Database</b>	Section 3	<ul style="list-style-type: none"> <li>Types of studies</li> <li>Criteria for inclusion</li> </ul>
Perform <b>Risk Assessment</b>		<ul style="list-style-type: none"> <li>Hierarchy of studies</li> <li>Criteria for evaluation</li> <li>Weight-of-evidence</li> </ul>
Determine <b>Threshold Levels</b>	Section 4	<ul style="list-style-type: none"> <li>Interpretation of threshold</li> <li>Biological effects</li> <li>Interaction mechanisms</li> </ul>
Select <b>Safety Factors</b>		<ul style="list-style-type: none"> <li>Multiple tier/different populations</li> <li>Level of scientific uncertainty</li> </ul>
Set <b>Exposure Limits</b>	Section 5	<ul style="list-style-type: none"> <li>Basic restrictions</li> <li>Reference levels</li> <li>Frequency extrapolation</li> </ul>
Ensure <b>Overall Practicability</b>		<ul style="list-style-type: none"> <li>Explanatory supporting document</li> <li>Compliance measures</li> <li>Monitoring system</li> </ul>

**Figure 9 • Procedure for developing EMP exposure standards**

Multilingual design

Corporate brochure. Working for Health, in six official languages, 32 pages.



众多公共卫生面孔

致力于促进健康：世界卫生组织简介



Book design

World Health Report, design, 2004–2007.

