

MEDICAL UNIVERSITY – PLEVEN FACULTY OF PUBLIC HEALTH

DEPARTMENT OF PUBLIC HEALTH SCIENCES

DAY 5 INTERNSHIP

PUBLIC HEALTH NEEDS OF SPECIAL POPULATION GROUPS

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MATERNAL AND CHILDHEALTH

Outline of the lecture

- SIGNIFICANCE OF MCHC
- CONTENT AND SPECIFIC OBJECTIVES OF MCHC
- MATERNAL HEALTH CARE
- CHILD HEALTH CARE
- MATERNAL AND CHILD CARE AND MDGs

SIGNIFICANCE OF MCHC

- IN ANY COMMUNITY, MOTHERS AND CHILDREN CONSTITUTE A PRIORITY GROUP.
- They comprise approximately 70% of the population of the developing countries, and about 45-50% in developed countries.
- MOTHERS AND CHILDREN AS "VULNERABLE" OR HIGH-RISK GROUP.

FOR WOMEN THE RISK IS CONNECTED WITH CHILD-BEARING.
FOR INFANTS CHILDREN — WITH GROWTH DEVELOPMENT AND SURVIVAL.

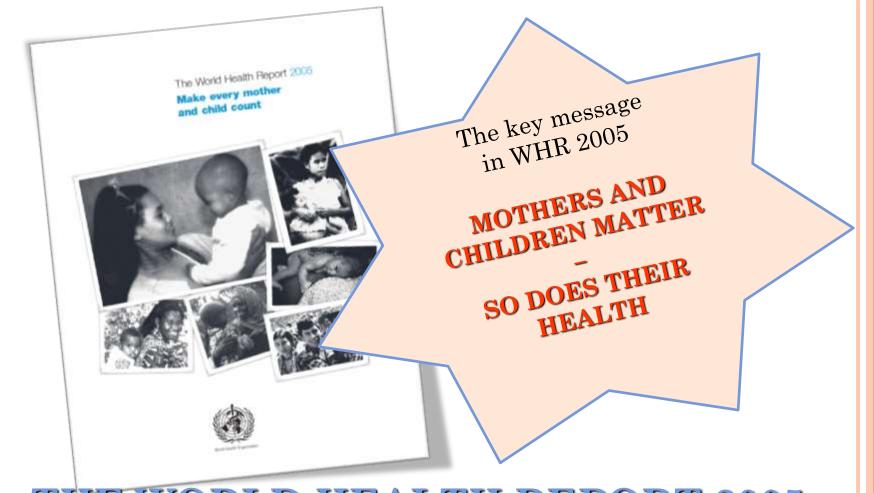
Mother and Child – one unit

- 1.DURING THE ANTENATAL PERIOD THE FETUS IS PART OF THE MOTHER.
- 2. CHILD HEALTH IS CLOSELY RELATED TO MATERNAL HEALTH. A HEALTHY MOTHER A HEALTHY BABY.
- 3. CERTAIN DISEASES AND CONDITIONS DURING PREGNANCY (SYPHILIS, GERMAN MEASLES, AIDS, DRUG INTAKE) ARE LIKELY TO HAVE EFFECTS UPON THE FETUS.
- 4. AFTER BIRTH THE CHILD IS DEPENDENT UPON THE MOTHER.
- 5. ALMOST ALL CARE SERVICES TO THE MOTHER AND CHILD ARE CLOSELY RELATED.
- 6. The mother is the first teacher of the child.

NOWADAYS, THE CURRENT TREND ALL OVER THE WORLD IS TO PROVIDE INTEGRATED MATERNAL AND CHILD CARE AND FAMILY PLANNING SERVICES.

NEW CONCEPTS:

- SOCIAL OBSTETRICS
- PREVENTIVE PAEDIATRICS
- SOCIAL PAEDIATRICS



THE WORLD HEALTH REPORT 2005

MAKE EVERY MOTHER AND CHILD COUNT

CONTENT AND SPECIFIC OBJECTIVES OF MCHC

MCH PROBLEMS COVER A BROAD SPECTRUM.

IN DEVELOPED REGIONS

PERINATAL PROBLEMS,
CONGENITAL MALFORMATIONS,
GENETIC AND BEHAVIORAL PROBLEMS

IN DEVELOPING REGIONS

REDUCTION OF MATERNAL AND CHILD MORTALITY AND MORBIDITY,

SPACING OF PREGNANCIES, LIMITATION OF FAMILY SIZE, PREVENTION OF COMMUNICABLE DISEASES, IMPROVEMENT OF NUTRITION, PROMOTING ACCEPTANCE OF HEALTH SERVICES.

MATERNAL AND CHILD HEALTH REFERS TO THE PROMOTIVE, PREVENTIVE, CURATIVE AND REHABILITATIVE HEALTH CARE FOR MOTHERS AND CHILDREN.

MCH INCLUDES THE SUB-AREAS:

MATERNAL HEALTH,

CHILD HEALTH,

FAMILY PLANNING,

SCHOOL HEALTH,

HANDICAPPED CHILDREN,

ADOLESCENCE AND HEALTH ASPECTS OF CHILDREN CARE IN SPECIAL SETTINGS.

SPECIFIC OBJECTIVES OF MCH GLOBALLY:

- REDUCTION OF MATERNAL, PERINATAL, INFANT AND CHILDHOOD MORTALITY AND MORBIDITY;
- PROMOTION OF REPRODUCTIVE HEALTH;
- PROMOTION OF THE PHYSICAL AND PSYCHOLOGICAL DEVELOPMENT OF THE CHILD AND ADOLESCENT WITHIN THE FAMILY.

THE ULTIMATE OBJECTIVE OF MCH SERVICES IS LIFELONG HEALTH.

MATERNAL HEALTH CARE

THE PRIMARY AIM — TO ACHIEVE AT THE END OF A PREGNANCY A HEALTHY MOTHER AND A HEALTHY BABY.

OBJECTIVES OF ANTENATAL CARE:

- TO PROMOTE, PROTECT AND MAINTAIN THE HEALTH OF THE MOTHER DURING PREGNANCY;
- TO DETECT "HIGH RISK" PREGNANCIES AND GIVE THEM SPECIAL ATTENTION HIGH RISK APPROACH;
- TO FORESEE COMPLICATIONS AND PREVENT THEM;
- TO REMOVE ANXIETY ASSOCIATED WITH DELIVERY;
- TO REDUCE MATERNAL AND INFANT MORTALITY AND MORBIDITY;
- TO TEACH THE MOTHER ELEMENTS OF CHILD CARE, NUTRITION, PERSONAL HYGIENE;
- TO SENSITIZE THE MOTHER TO THE NEED OF FAMILY PLANNING INCLUDING ADVICE TO CASES SEEKING MEDICAL TERMINATION OF PREGNANCY.

RISK APPROACH

INTRODUCED BY WHO IN 1970S AS A STRATEGY TO DETERMINE HIGH-RISK GROUPS IN THE POPULATION AND TO DIRECT SPECIFIC PREVENTIVE MEASURES TO THESE GROUPS AND INDIVIDUALS IN ORDER TO MINIMIZE THE EFFECTS OF RISK FACTORS.

HIGH-RISK PREGNANCIES:

- ELDERLY PRIMI;
- SHORT STATURED PRIMI (140 CM AND BELOW);
- Malpresentations, viz breech, transverse lie;
- ANTEPARTUM HAEMORRAGE, THREATENED ABORTION;
- Preeclampsia and eclampsia;
- ANAEMIA;
- TWINS, HUDRAMNIOS;
- Previous stillbirth, intrauterine death;
- ELDERLY GRANDMULTIPARAS;
- Prolonged Pregnancy (14 days after expected date of delivery);
- HISTORY OF PREVIOUS CAESAREAN OR INSTRUMENTAL DELIVERY;
- GENERAL DISEASES (CVD, KIDNEY DISEASE, DIABETES, TBC, LIVER DISEASE, ETC.)

INTRANATAL CARE

THE AIMS OF A GOOD INTRANATAL CARE ARE TO PROVIDE:

- THOROUGH ASEPSIS;
- DELIVERY WITH MINIMUM INJURY TO THE INFANT AND MOTHER;
- READINESS TO DEAL WITH COMPLICATIONS SUCH AS
 PROLONGED LABOUR, ANTEPARTUM HAEMORRHAGE,
 CONVULSIONS, MALPRESENTATIONS, PROLAPSE OF THE CORD,
 ETC.
- CARE OF THE BABY AT DELIVERY RESUSCITATION, CARE OF THE CORD, CARE OF THE EYES, ETC.

DOMICILIARY CARE

INSTITUTIONAL CARE — FOR ALL HIGH-RISK CASES

POSTNATAL CARE

CARE OF THE MOTHER (POSTPARTAL CARE) — A

RESPONSIBILITY OF THE OBSTETRICIAN;

CARE OF THE NEWBORN — A COMBINED RESPONSIBILITY OF

THE OBSTETRICIAN AND PAEDIATRICIAN

THE OBJECTIVES OF POSTPARTAL CARE:

- TO PREVENT COMPLICATIONS OF THE POSTPARTAL PERIOD;
- TO PROVIDE CARE FOR THE RAPID RESTORATION OF THE MOTHER TO OPTIMUM HEALTH;
- TO CHECK ADEQUACY OF BEAST FEEDING;
- TO PROVIDE FAMILY PLANNING SERVICES;
- TO PROVIDE BASIC HEALTH EDUCATION TO MOTHER/FAMILY.

Maternal mortality WHO Key facts

https://www.who.int/news-room/fact-sheets/detail/maternal-mortality

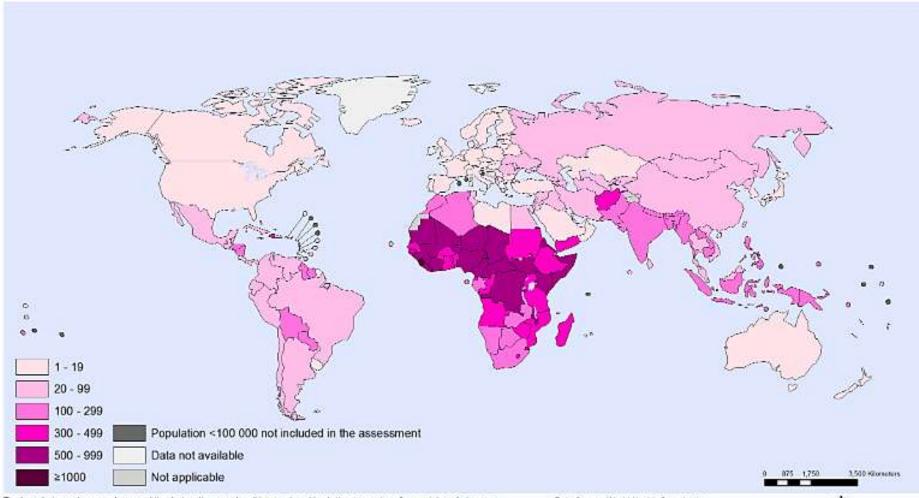
- ➤ Every day in 2017, approximately 810 women died from preventable causes related to pregnancy and childbirth.
- ➤ Between 2000 and 2017, the maternal mortality rate dropped by about 38% worldwide.
- ➤ 94% of all maternal deaths occur in low and lower middle-income countries.
- ➤ Young adolescents (ages 10-14) face a higher risk of complications and death as a result of pregnancy than other women.
- Skilled care before, during and after childbirth can save the lives of women and newborns.



WHERE DO MATERNAL DEATHS OCCUR?

THE HIGH NUMBER OF MATERNAL DEATHS IN SOME AREAS OF THE WORLD REFLECTS INEQUALITIES IN ACCESS TO QUALITY HEALTH SERVICES AND HIGHLIGHTS THE GAP BETWEEN RICH AND POOR. THE MMR IN LOW INCOME COUNTRIES IN 2017 IS 462 PER 100 000 LIVE BIRTHS VERSUS 11 PER 100 000 LIVE BIRTHS IN HIGH INCOME COUNTRIES.

Maternal mortality ratio (per 100 000 live births), 2015



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Cata Source: World Health Organization Map Production: Health Statistics and Information Systems (HSI) World Health Organization



WHAT ARE THE LEADING CAUSES OF MATERNAL DEATHS?

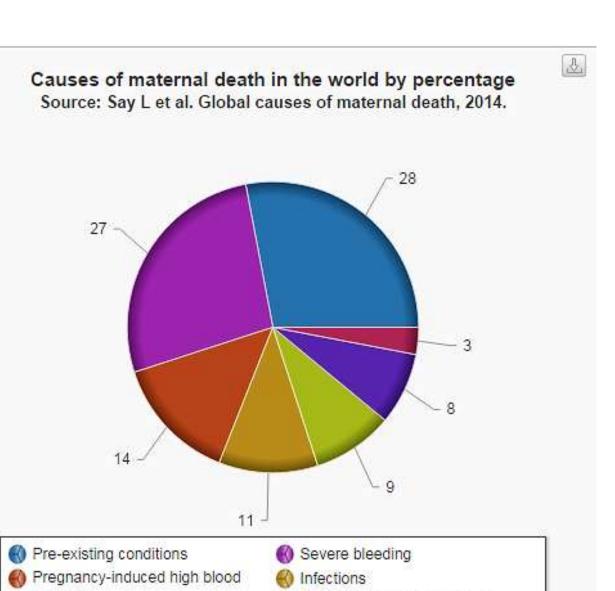
DIRECT OR INDIRECT CAUSES IN PREGNANCY, CHILDBIRTH OR THE POSTPARTUM PERIOD

Major killers

- Severe bleeding
- Infections
- Hypertensive disorders
- Obstructed labour

Indirect causes

- Complications after unsafe abortions (13%)
- Diseases (20%) that complicate pregnancy or aggravated by pregnancy
 - Malaria
 - Anaemia
 - HIV/AIDS
 - CVD



Obstructed labour and other

Blood clots/embolism

pressure

Abortion complications



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HOW CAN THE MOTHERS' LIVES BE SAVED?

MOST MATERNAL DEATHS ARE AVOIDABLE AS THE MEDICAL SOLUTIONS TO PREVENT OR MANAGE THE FATAL CAUSES ARE WELL KNOWN.

SKILLED CARE AT BIRTH (GOOD QUALITY OF INTRANATAL CARE) CAN MAKE THE DIFFERENCE BETWEEN LIFE AND DEATH.

FOR INSTANCE, IF UNATTENDED, SEVERE BLEEDING IN THE THIRD STAGE OF LABOUR CAN KILL EVEN A HEALTHY WOMAN WITHIN TWO HOURS. AN INJECTION OF THE DRUG OXYTOCIN GIVEN IMMEDIATELY AFTER CHILDBIRTH REDUCES THE RISK OF BLEEDING VERY EFFECTIVELY.

SEPSIS, THE SECOND MOST FREQUENT CAUSE OF MATERNAL DEATH, CAN BE WIDELY REDUCED IF ASEPTIC TECHNIQUES ARE RESPECTED.

THE THIRD-CAUSE, PRE-ECLAMPSIA, IS A COMMON HYPERTENSIVE DISORDER IN PREGNANCY, WHICH CAN BE MONITORED. ALTHOUGH PRE-ECLAMPSIA CANNOT BE COMPLETELY CURED BEFORE THE DELIVERY, THE ADMINISTRATION OF DRUGS LIKE MAGNESIUM SULFATE CAN LOWER A WOMAN'S RISK OF DEVELOPING CONVULSIONS (ECLAMPSIA).

ANOTHER FREQUENT CAUSE OF MATERNAL DEATH, OBSTRUCTED LABOUR, CAN BE PREVENTED OR MANAGED BY SKILLED BIRTH ATTENDANTS.
OBSTRUCTED LABOUR OCCURS WHEN THE FETUS' HEAD IS TOO BIG COMPARED TO THE MOTHER'S PELVIS OR IF THE BABY IS ABNORMALLY POSITIONED.

A SIMPLE TOOL TO IDENTIFY PROBLEMS IN LABOUR EARLY IS THE PARTOGRAPH TO MONITOR THE PROGRESS OF LABOUR AND THE MATERNAL AND FETAL CONDITION. SKILLED PRACTITIONERS CAN USE THE PARTOGRAPH TO RECOGNIZE AND DEAL WITH SLOW PROGRESS BEFORE LABOUR BECOMES OBSTRUCTED, AND, IF NECESSARY, REFFER THE WOMAN TO CAESAREAN SECTION.

WHY DO MOTHERS NOT GET THE CARE THEY NEED?

THE LATEST AVAILABLE DATA SUGGEST THAT IN MOST HIGH INCOME AND UPPER MIDDLE INCOME COUNTRIES, MORE THAN 90% OF ALL BIRTHS BENEFIT FROM THE PRESENCE OF A TRAINED MIDWIFE, DOCTOR OR NURSE. HOWEVER, FEWER THAN HALF OF ALL BIRTHS IN SEVERAL LOW INCOME AND LOWER-MIDDLE-INCOME COUNTRIES ARE ASSISTED BY SUCH SKILLED HEALTH PERSONNEL. 25

MAIN FACTORS THAT PREVENT WOMEN FROM RECEIVING OR SEEKING CARE

- poverty
- o distance to facilities
- lack of information
- inadequate and poor quality services
- o cultural beliefs and practices.





THE WHO STRATEGY "MAKING PREGNANCY SAFER" IS DIRECTED TO:

IMPROVE MATERNAL HEALTH,
ASSISTS COUNTRIES TO ENSURE SKILLED CARE BEFORE,
DURING AND AFTER PREGNANCY AND CHILDBIRTH
STRENGTHEN NATIONAL HEALTH SYSTEMS IN ORDER TO
ACHIEVE MILLENNIUM DEVELOPMENT GOALS.

A CORNERSTONE OF MAKING PREGNANCY SAFER IS THE INTEGRATED MANAGEMENT OF PREGNANCY AND CHILDBIRTH:

- GUIDANCE AND TOOLS TO INCREASE THE AVAILABILITY OF HIGH-QUALITY HEALTH SERVICES TO PREGNANT WOMEN.
- CLINICAL GUIDELINES FOR THE MANAGEMENT OF COMPLICATIONS BEFORE, DURING AND AFTER CHILDBIRTH
- RECOMMENDATIONS AND STANDARDS FOR INTERVENTIONS FOR A CONTINUUM OF CARE FOR MOTHERS AND NEWBORNS WERE DEVELOPED.
- INVOLVEMENT OF INDIVIDUALS, FAMILIES AND COMMUNITIES TO INCREASE THE ACCESS TO QUALITY CARE.

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MILLENIUM GOAL 5: IMPROVE MATERNAL HEALTH

TARGET 1:

REDUCE BY 3/4 THE MATERNAL MORTALITY RATIO

TARGET 2:

ACHIEVE UNIVERSAL ACCESS TO REPRODUCTIVE HEALTH

TARGET 2:

ACHIEVE UNIVERSAL ACCESS TO REPRODUCTIVE HEALTH

WHAT NEEDS TO BE DONE?

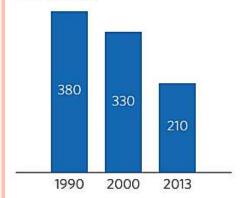
- 1. Provide sufficient financing to strengthen health systems for maternal, childcare and other reproductive health services, and ensure appropriate procurement and distribution of contraception, drugs and equipment.
- 2. ESTABLISH NATIONAL PROGRAMMES TO REDUCE MATERNAL MORTALITY AND ENSURE UNIVERSAL ACCESS TO REPRODUCTIVE HEALTH CARE, INCLUDING FAMILY PLANNING SERVICES.
- 3. Provide trained health workers during and after pregnancy and childbirth for delivery of quality antenatal care, timely emergency obstetric services and contraception.

- 4. Ensure access to timely emergency obstetric services and provide adequate communication, skilled personnel, facilities and transportation systems, especially in areas where poverty, conflict, great distances and overloaded health systems obstruct such efforts.
- 5. ADOPT AND IMPLEMENT POLICIES THAT PROTECT POOR FAMILIES FROM THE CATASTROPHIC CONSEQUENCES OF UNAFFORDABLE MATERNITY CARE, INCLUDING THROUGH ACCESS TO HEALTH INSURANCE OR FREE SERVICES.
- 6. PROTECT PREGNANT WOMEN FROM DOMESTIC VIOLENCE; AND INVOLVE MEN IN MATERNAL HEALTH AND WIDER REPRODUCTIVE HEALTH.

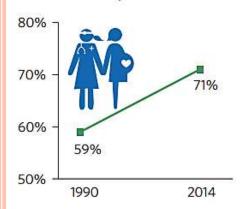
- 7. Increase access to contraception and sexual and reproductive health counseling for men, women and adolescents.
- 8. Increase efforts to prevent child marriage and ensure that young women postpone their first pregnancy.

GOAL 5: IMPROVE MATERNAL HEALTH

Global maternal mortality ratio (deaths per 100,000 live births)



Global births attended by skilled health personnel



- Since 1990, the maternal mortality ratio has declined by 45 per cent worldwide, and most of the reduction has occurred since 2000.
- In Southern Asia, the maternal mortality ratio declined by 64 per cent between 1990 and 2013, and in sub-Saharan Africa it fell by 49 per cent.
- More than 71 per cent of births were assisted by skilled health personnel globally in 2014, an increase from 59 per cent in 1990.
- In Northern Africa, the proportion of pregnant women who received four or more antenatal visits increased from 50 per cent to 89 percent between 1990 and 2014.
- Contraceptive prevalence among women aged 15 to 49, married or in a union, increased from 55 per cent in 1990 worldwide to 64 per cent in 2015.

CHILD HEALTH CARE

CARE OF CHILDREN

THE AGE GROUP 0-14 YEARS IS THE MOST IMPORTANT IN ALL SOCIETIES BECAUSE:

- THEY CONSTITUTE ABOUT 40% OF THE TOTAL POPULATION WORLDWIDE;
- THE DETERMINANTS OF CHRONIC DISEASES AND HEALTH BEHAVIOUR ARE LAID DOWN AT THIS STAGE;
- IT IS A VITAL PERIOD OF SOCIALIZATION AND TRANSMISSION OF ATTITUDES, CUSTOMS AND BEHAVIOUR THAT MAY IMPACT THE HEALTH IN LATER LIFE, ETC.

AGE-PERIODS OF THE CHILDHOOD

AGE-PERIOD	COMMON PROBLEMS	
INFANCY	Infant mortality	
Developed countries	Developing countries	
 Perinatal causes – asphyxia, hypoxia, injuries, low birth weight Congenital abnormalities Respiratory diseases 	 Immunopreventable diseases – diphtheria, tetanus, whooping cough, measles, tuberculosis, poliomyelitis Diarrhoea Acute respiratory infections 	
	Malnutrition. Anaemia, xerophthalmia	
PRE-SCHOOL AGE	 Infections. Respiratory infections, pneumonia, influenza. Intestinal infections and parasites. Accidents and poisoning. Burns and trauma form home accidents. Traffic accidents. Risk factors from the family background. 	
	 Malnutrition 	
SCHOOL AGE	 Infectious diseases Intestinal parasites Diseases of skin, eye and ear Dental caries Spinal problems. Allergies. Asthma. Hypodynamics Neurosis. Psycho-emotional stress. Social adaptation. Sexual maturation 	

Infant mortality WHO Key facts

https://www.who.int/news-room/fact-sheets/detail/childrenreducing-mortality

- ➤ In 2018 an estimated 6.2 million children and adolescents under the age of 15 years died, mostly from preventable causes. Of these deaths, 5.3 million occurred in the first 5 years, with almost half of these in the first month of life.
- Leading causes of death in children under-5 years are preterm birth complications, pneumonia, birth asphyxia, congenital anomalies, diarrhoea and malaria. Nearly half of these deaths are in newborns.
- More than half of these early child deaths are preventable or can be treated with simple, affordable interventions including immunization, adequate nutrition, safe water and food and appropriate care by a trained health provider when needed.
- Children in sub-Saharan Africa are more than 15 times more likely to die before the age of 5 than children in high income 38 countries.

Leading causes of death in post-neonatal children: risk factors and response

Cause of death	Risk factors	Prevention	Treatment
Pneumonia, or other acute respiratory infections	Indiana Parada and American American	Antenatal care visits for mother	
	Low birth weight Malnutrition	Adequate nutrition	Appropriate care by a trained health provider
	Non-breastfed	Exclusive breastfeeding	Antibiotics
	children	Reduction of household	Oxygen for severe illness
	Overcrowded conditions	air pollution Vaccination	
Childhood diarrhoea	Non-breastfed	Exclusive breastfeeding	
	children	Safe water and food	
	Unsafe drinking water		Low-osmolarity oral rehydration
	and food	Adequate sanitation and hygiene	salts (ORS)
	Poor hygiene	50.8 5.1 50.5000.00	Zinc supplements
	practices	Adequate nutrition	
	Malnutrition	Vaccination	

10 FACTS ON CHILD HEALTH



A CHILD'S RISK OF DYING IS HIGHEST IN THE FIRST MONTH OF LIFE. PRETERM BIRTH, BIRTH ASPHYXIA AND INFECTIONS CAUSE MOST NEWBORN DEATHS. UNTIL THE AGE OF FIVE YEARS THE MAIN CAUSES OF DEATHS ARE PNEUMONIA, DIARRHOEA, MALARIA, MEASLES AND HIV. MALNUTRITION CONTRIBUTES TO MORE THAN HALF OF ALL CHILD DEATHS.



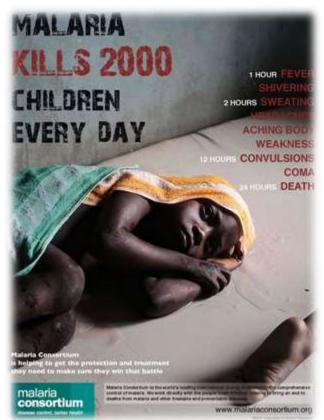
ANNUALLY ALMOST FOUR MILLION CHILDREN DIE IN THE FIRST MONTH OF LIFE. **HEALTH RISKS TO NEWBORNS CAN BE MINIMIZED BY** QUALITY CARE DURING PREGNANCY, SAFE DELIVERY BY A SKILLED BIRTH ATTENDANT, AND STRONG NEONATAL CARE (IMMEDIATE ATTENTION TO BREATHING AND WARMTH, HYGIENIC CORD AND SKIN CARE, AND EXCLUSIVE BREASTFEEDING).



PNEUMONIA IS THE LARGEST SINGLE CAUSE OF DEATH IN CHILDREN UNDER FIVE YEARS OF AGE. ADDRESSING THE MAJOR RISK FACTORS FOR THE ILLNESS IS ESSENTIAL TO PREVENTION, ALONG WITH VACCINATION ANTIBIOTICS AND OXYGEN ARE VITAL TREATMENT TOOLS FOR PNEUMONIA



FACT 4 DIARRHOEAL DISEASES ARE AMONG THE LEADING CAUSES OF SICKNESS AND DEATH AMONG CHILDREN IN DEVELOPING COUNTRIES. BREASTFEEDING HELPS PREVENT DIARRHOEA AMONG YOUNG CHILDREN. TREATMENT WITH ORAL REHYDRATION SALTS (ORS) AND ZINC SUPPLEMENTS IS COST-EFFECTIVE AND SAVES LIVES.





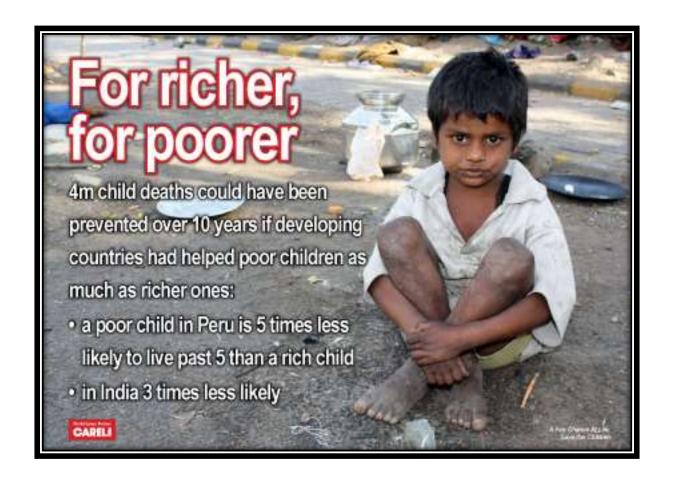
EVERY 30 SECONDS A CHILD DIES FROM MALARIA IN AFRICA. IT IS THE LEADING CAUSE OF DEATH IN THAT REGION AMONG UNDER-FIVES. INSECTICIDE-TREATED NETS PREVENT TRANSMISSION AND INCREASE CHILD SURVIVAL. EARLY TREATMENT WITH ANTI-MALARIAL MEDICATION SAVES LIVES.



OVER 90% OF CHILDREN WITH HIV ARE INFECTED THROUGH MOTHER-TO-CHILD TRANSMISSION, WHICH IS PREVENTABLE WITH THE USE OF ANTIRETROVIRALS AND SAFER DELIVERY AND FEEDING PRACTICES. AN ESTIMATED 2.3 MILLION CHILDREN UNDER 15 YEARS OF AGE ARE LIVING WITH HIV, AND EVERY DAY MORE THAN 1400 ARE NEWLY INFECTED. WITHOUT INTERVENTION, MORE THAN HALF OF ALL HIV-46 INFECTED CHILDREN DIE BEFORE THEIR SECOND BIRTHDAY.



ABOUT 20 MILLION CHILDREN UNDER FIVE YEARS OF AGE WORLDWIDE ARE SEVERELY MALNOURISHED. AROUND THREE-QUARTERS OF THEM CAN BE TREATED WITH "READY-TO-USE THERAPEUTIC FOODS". THESE HIGHLY FORTIFIED AND ENERGY-RICH FOODS CAN BE USED AT HOME WITHOUT REFRIGERATION, AND EVEN WHERE HYGIENE CONDITIONS NOT IDEAL.



CHILD SURVIVAL RATES DIFFER SIGNIFICANTLY AROUND THE WORLD - THREE-QUARTERS OF CHILD DEATHS OCCUR IN AFRICA AND SOUTH-EAST ASIA. WITHIN COUNTRIES, CHILD MORTALITY IS HIGHER IN RURAL AREAS, AND AMONG POORER AND LESS EDUCATED FAMILIES.



CHILD HEALTH IS IMPROVING. ABOUT TWO-THIRDS OF CHILD DEATHS ARE PREVENTABLE THROUGH ACCESS TO PRACTICAL, LOW-COST INTERVENTIONS, AND EFFECTIVE PRIMARY CARE UP TO FIVE YEARS OF AGE. STRONGER HEALTH SYSTEMS ARE CRUCIAL FOR IMPROVING ACCESS TO CARE AND PREVENTION.



GREATER INVESTMENT IS KEY TO ACHIEVING REDUCTION OF UNDER-FIVE MORTALITY RATE. PUBLIC AND PRIVATE PARTNERS MUST COME TOGETHER TO FILL THE GAP IN ORDER TO MEET THIS GOAL. THE LAUNCH OF THE INTERNATIONAL HEALTH PARTNERSHIP, THE RELATED GLOBAL CAMPAIGN FOR THE HEALTH MDGS, AND SEVERAL LARGE BILATERAL DONOR PLEDGES ARE IMPORTANT STEPS IN THIS DIRECTION.

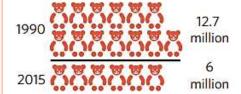
MILLENNIUM DEVELOPMENT GOAL 4: REDUCE CHILD MORTALITY

TARGET 1:

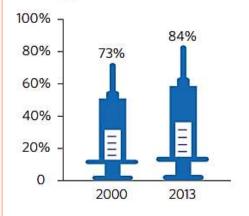
REDUCE BY TWO THIRDS, BETWEEN 1990 AND 2015, THE UNDER-FIVE MORTALITY RATE

GOAL 4: REDUCE CHILD MORTALITY

Global number of deaths of children under five



Global measles vaccine coverage



- The global under-five mortality rate has declined by more than half, dropping from 90 to 43 deaths per 1,000 live births between 1990 and 2015.
- Despite population growth in the developing regions, the number of deaths of children under five has declined from 12.7 million in 1990 to almost 6 million in 2015 globally.
- Since the early 1990s, the rate of reduction of under-five mortality has more than tripled globally.
- In sub-Saharan Africa, the annual rate of reduction of under-five mortality was over five times faster during 2005–2013 than it was during 1990–1995.
- Measles vaccination helped prevent nearly 15.6 million deaths between 2000 and 2013. The number of globally reported measles cases declined by 67 per cent for the same period.
- About 84 per cent of children worldwide received at least one dose of measlescontaining vaccine in 2013, up from 73 per cent in 2000.

SUSTAINABLE DEVELOPMENT UN 2015 GOAL 3:

END PREVENTABLE DEATHS OF NEWBORNS AND UNDER-5 CHILDREN BY 2030

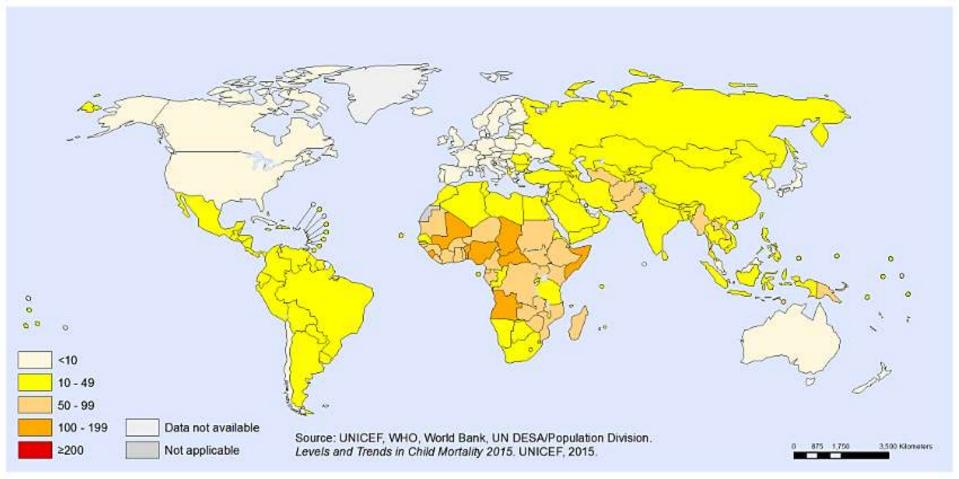
TARGET 1:

Reduce Newborn mortality to at least as low as 12 per 1 000 live births in every country

TARGET 2:

REDUCE UNDER-FIVE MORTALITY TO AT LEAST AS LOW AS 25 PER 1,000 LIVE BIRTHS IN EVERY COUNTRY

Under-five mortality rate (probability of dying by age 5 per 1000 live births), 2015



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Data Source: World Health Organization Map Production: Health Statistics and Information Systems (HSI) World Health Organization



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WHAT NEEDS TO BE DONE?

MEASURES TO ACHIEVE THE NECESSARY REDUCTIONS IN CHILD MORTALITY SHOULD INCLUDE:

- 1. Ensure full coverage of immunization programmes.
- 2. Scale up vitamin A supplementation.
- 3. Pursue exclusive breastfeeding for children under 6 months of age and breastfeeding plus appropriate complementary feeding for children age 6 months to two years.

- 4.Provide adequate nourishment for CHILDREN OF POOR FAMILIES, DESPITE FOOD PRICE RISES.
- 5. Promote hand-washing and treatment OF HOME DRINKING WATER.
- 6. Target the underlying socioeconomic CAUSES OF CHILD MORTALITY SUCH AS MOTHERS' ACCESS TO REPRODUCTIVE HEALTH, EDUCATION AND EMPLOYMENT.
- 7. Prevent and provide effective TREATMENT OF PNEUMONIA, DIARRHOEA, MALARIA AND OTHER INFECTIOUS DISEASES 56

- 8. Promote comprehensive and universal coverage of primary health-care systems with the engagement of community health workers accompanied by sustained delivery of health services and women's education programmes.
- 9. Ensure sufficient financing for the strengthening of health systems to meet the demand for maternal and childcare and other reproductive health services.

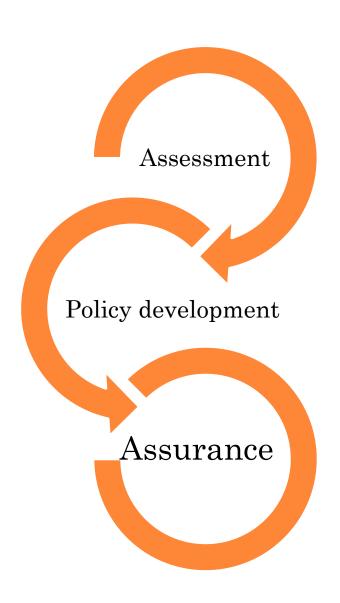
PEOPLE WITH DISABILITIES

DEFINITIONS

- By diagnosis: Traditional approaches to defining disability for public health have focused on equating a particular diagnosis with disability (e.g. blindness).
- Focus on the impairment
- Limitations in particular activities (e.g. self-care)
- Identification of those with problems in working or going to school
- Identification of those who need special programmes, e.g. special education
- To ask the individuals themselves if they or others would identify them as someone with disability (self-identification)

- Disability has traditionally been placed alongside morbidity and mortality as the negative public health outcomes.
- ⇒ preventing disabilities, therefore, has been a goal of public health activities
- What happens to those who become disabled despite of our best primary prevention efforts?
- Traditional approach medical and rehabilitation services (outside the purview of public health)

PUBLIC HEALTH APPROACH TO PEOPLE WITH DISABILITIES



Public health approach to people with disabilities

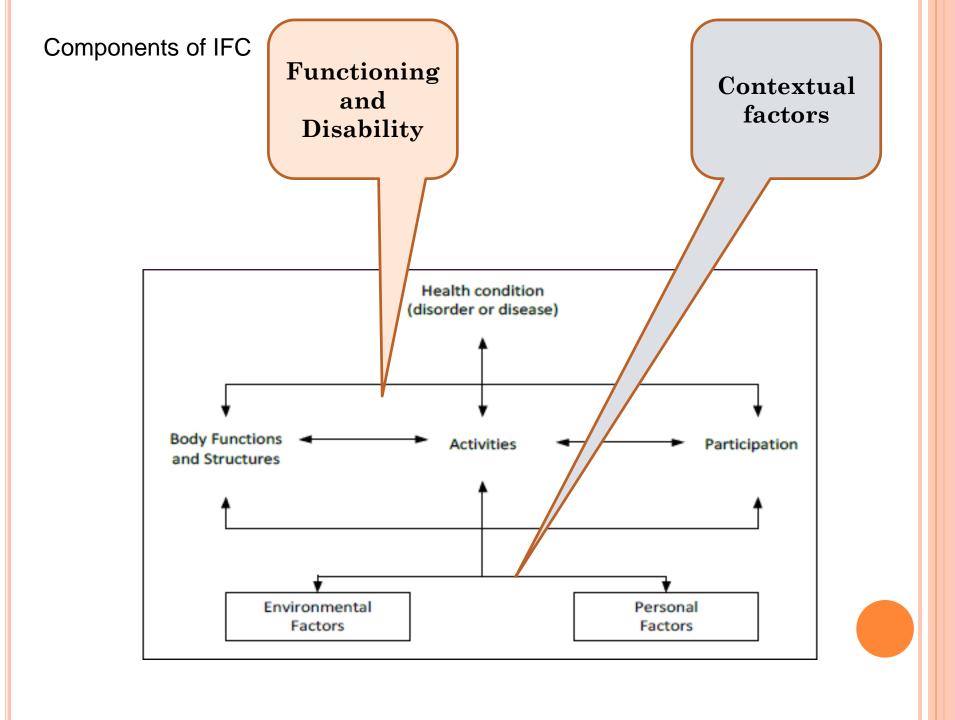


ICF – International classification on Functioning, Disability and Health components

- The ICF is a classification of health and health-related conditions for children and adults that was developed by WHO and published in 2001.
- ICF classification system to be considered a partner to the ICD. Whereas the ICD classifies disease, the ICF looks at functioning. Therefore, the use of the two together would provide a more comprehensive picture of the health of persons and populations.
- ICF is not based on etiology or "consequence of disease," but as a component of health. Thus, while functional status may be related to a health condition, knowing the health condition does not predict functional status.
- ICF describes health and health related domains using standard language > wide application.

BENEFITS OF ICF

- Integration of the medical and social aspects of patient's condition instead of solely focusing on his or her diagnosis.
- Identifying the limitations of function is often the information used to plan and implement interventions.
- Knowing how a disease affects one's functioning enables better planning of services, treatment, and rehabilitation for persons with long-term disabilities or chronic conditions.



Chapters of ICF

STATE OF THE PARTY NAMED IN	general contract of	THE RESERVE OF THE PERSON NAMED IN
LOCAL		ction:
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Mental functions

Sensory functions and pain

Voice and speech functions

Functions of the cardiovascular, haematological, immunological and respiratory systems

Functions of the digestive, metabolic, endocrine systems

Genitourinary and reproductive functions

Neuromusculoskeletal and movement-related functions

Functions of the skin and related structures

Activities and Participation:

Learning and applying knowledge

General tasks and demands

Communication

Mobility

Self care

Domestic life

Interpersonal interactions and relationships

Major life areas

Community, social and civic life

Body Structure:

Structure of the nervous system

The eye, ear and related structures

Structures involved in voice and speech

Structure of the cardiovascular, immunological and respiratory Systems

Structures related to the digestive, metabolic and endocrine systems

Structure related to genitourinary and reproductive systems

Structures related to movement

Skin and related structures

Environmental Factors:

Products and technology

Natural environment and human-made changes to environment

Support and relationships

Attitudes

Services, systems and policies

Box 2: ICF Qualifier scales

Generic qualifier:

- No problem
- 1 Mild problem
- 2 Moderate problem
- 3 Severe problem
- 4 Complete problem
- 8 Not specified
- 9 Not applicable

Qualifier for Environmental factors:

.0 No barrier +0 No facilitator

.1 Mild barrier +1 Mild facilitator

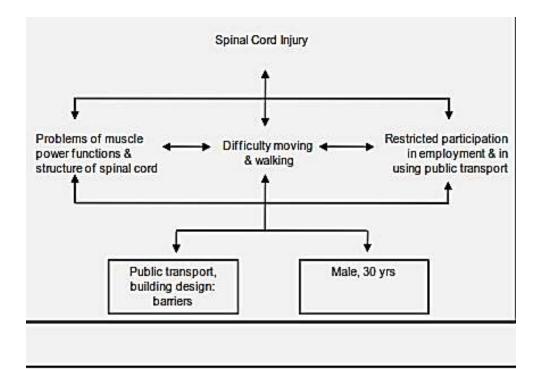
.2 Moderate barrier +2 Moderate facilitator

.3 Severe barrier +3 Substantial facilitator

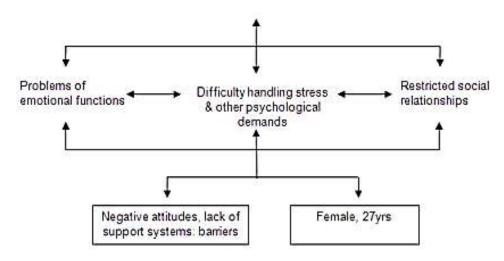
.4 Complete barrier +4 Complete facilitator

.8 Barrier, not specified +8 Facilitator, not specified

.9 Not applicable +9 Not applicable







Public health approach to people with disabilities



WHY?

- Data obtained about persons with disabilities alone do not make a difference in public health or in their own lives.
- Policy development addresses the need for public health policies to use scientific knowledge in decision-making, as public health policy is best formulated on the foundation of strong data.

UN STANDARD RULES ON THE EQUALIZATION OF OPPORTUNITIES FOR PERSONS WITH DISABILITIES (1993)

Preconditions

Rule 1. Awareness raising

Rule 2. Medical care

Rule 3. Rehabilitation

Rule 4. Support sevices

Target areas

Rule 5. Accessibility

Rule 6. Education

Rule 7. Employment

Rule 8. Income maintenance/

social security

Rule 9. Family life and personal

integrity

Rule 10. Culture

Rule 11. Recreation and sport

Rule 12. Religion

UN Standard rules on the equalization of opportunities for persons with disabilities (1993)

<u>Implementation measures</u>

Rule 13. Information and research

Rule 14. Policy making and

planning

Rule 15. Legislation

Rule 16. Economic policies

Rule 17. Coordination of work

Rule 18. Organizations of people with disabilities

Rule 19. Personnel training

Rule 20. National

monitoring/evaluation of

disability programmes

Rule 21. Technical and economic

cooperation

Rule 22. International

cooperation

Public health approach to people with disabilities



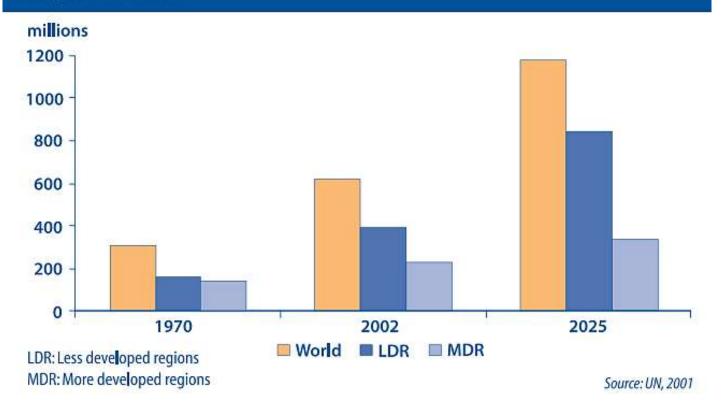
WHAT DOES IT MEAN?

- Certitude that needed services will be provided to individuals and communities so that health goals can be reached;
- Services must not only be present but also maintained so that goals can be met;
- Not only presence of services but also access to those services:
 - Physical proximity
 - Reasonable transport to the services
 - Physical accessibility
 - Financial access
 - Attitudes that encourage participation in the services



ELDERLY

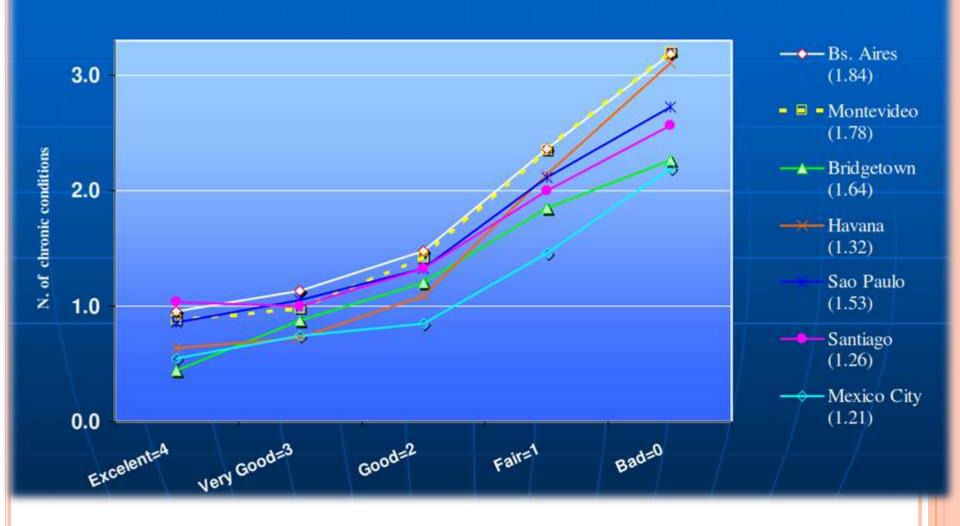
Figure 2. The numbers of people over age 60 in less and more developed regions, 1970, 2000 and 2025

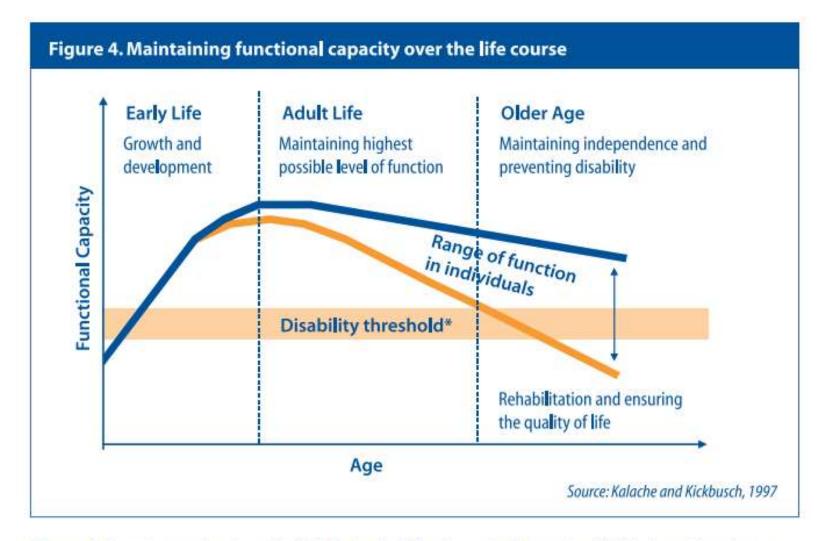


GENERAL CHARACTERISTICS

- Aging is a continuous process of limitation over vitality and increase of disease susceptibility.
- Higher incidence of physical and mental disorders.
- Age specific diseases.
- Increased risk for certain diseases.
- Chronic multiple diseases.
- Changed reactivity severe diseases.
- Blurred symptoms of disease.
- More disease complications.

Older Adults (60 +): Self-assessed health according to number of chronic conditions (including depression) by city (%)





^{*}Changes in the environment can lower the disability threshold, thus decreasing the number of disabled people in a given community.

Functional capacity (such as ventilatory capacity, muscular strength, and cardiovascular output) increases in childhood and peaks in early adulthood, eventually followed by a decline. The rate of decline, however, is largely determined by factors related to adult lifestyle – such as smoking, alcohol consumption, levels of physical activity and diet – as well as external and environmental factors. The gradient of decline may become so steep as to result in premature disability. However, the acceleration in decline can be influenced and may be reversible at any age through individual and public policy measures.

LEADING HEALTH PROBLEMS

PROBLEMS DUE TO THE AGEING PROCESS	Senile caract
	Glaucoma
	Nerve deafness
	Bony changes
	Emphysema
	Failure of special senses
	Changes in mental outlook
PROBLEMS ASSOCIATED WITH LONG- TERM ILLNESS	Degenerative diseases of heart and blood vessels
	Cancer
	Accidents. Fracture neck of femur
	Diabetes
	Disease of locomotor system
	Respiratory illnesses. Chronic bronchitis. Asthma.
	Emphysema.
	Genitourinary system.
PSYCHOLOGICAL PROBLEMS	Mental changes
	Sexual adjustment
	Emotional disorders

AREA POTENTIALLY AMENABLE TO PREVENTIVE HEALTH CARE IN THE ELDERLY

PRIMARY	SECONDARY	TERTIARY
1. Health habits Smoking Alcohol abuse Obesity Nutrition Sleep 2. Coronary heart disease risk factors	1. Screening for Hypertension, diabetes Periodontal disease Sensory impairment Colo-rectal cancer Breast cancer, cervical cancer Prostatic cancer Nutritionally-induced	 Rehabilitation Physical deficits Cognitive deficits Functional deficits Caretaker support Introduction of support necessary to prevent loss of
 3. Immunization	anaemias Depression, stress Urinary incontinence Tuberculosis 2. Stroke prevention 3. Myocardial infarction	autonomy

• We recognize that concerted action is required to transform the opportunities and the quality of life of men and women as they age and to ensure the sustainability of their support systems, thus building the foundation for a society for all ages.

- It focuses on three priority areas:
 - 1. older persons and development;
 - 2. advancing health and well-being into old age;
 - and ensuring enabling and supportive environments.
- It is a resource for policymaking, suggesting ways for Governments, non-governmental organizations, and other actors to reorient the ways in which their societies perceive, interact with and care for their older citizens.

Priority 1 – Older persons and development

- Active participation in society and development
- Recognition of the social, cultural, economic and political contribution of older people
- Participation of older persons in decision-making processes at all levels
- Work and the ageing labor force, employment opportunities for all older persons who want to work
- Improvement of living conditions and infrastructure in rural areas
- Access to knowledge, education and training
- Full utilization of the potential and expertise of persons of all ages, recognizing the benefits of increased experience with age
- Intergenerational solidarity
- Sufficient minimum income for all age persons, paying particular attention to socially and economically disadvantaged groups

Priority 2 – Advancing health and well-being into old age

- Health promotion and well-being throughout life
- Reduction of cumulative effects of factors that increase the risk of disease and consequently potential dependence in older age
- Development of policies to prevent ill-health among older persons
- Access to food and adequate nutrition for all older persons
- Universal and equal access to health-care services
- Development and strengthening of primary health care services to meet the needs of older persons and promote their inclusion in the process
- Development od continuum of health care to meet the needs of older persons
- Training of care providers and health professionals
- Mental health needs of older persons
- Older persons and disabilities

Priority 3 – Ensuring enabling and supportive environments

- Housing and the living environment
- Improved availability of accessible and affordable transportation for older people
- Care and support for caregivers
- Images of ageing, enhancement of public recognition of the authority, wisdom, productivity and other important contributions of older people

ACTIVE AGING



ACTIVE AGING

- Active ageing is the process of optimizing opportunities for health, participation and security in order to enhance quality of life as people age.
- Active ageing allows people to realize their potential for physical, social, and mental well-being throughout the life course and to participate in society, while providing them with adequate protection, security and care when they need.

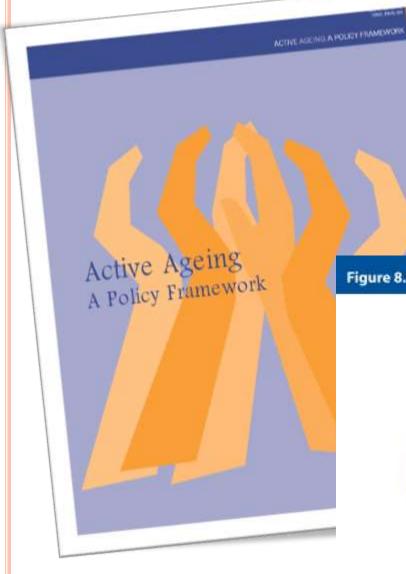


Figure 8. The determinants of Active Ageing



1. WHO - Age Friendly Cities Programme. In 2007 WHO published guidelines to help cities become more age-friendly. It lists a number of requirements for age friendly outdoor spaces and buildings including the need for general cleanliness, seating both inside and outside, shelter from the elements, toilets, smooth nonslip surfaces, wheelchair access, ramps where needed, steps with rails and green spaces.

2. Retired and senior volunteer programme – Retire into Action. This UK programme was established in 1988 and encourages people aged 50+ to get involved in local concerns. This programme within Community Service Volunteers (CSV) uses the wide range of skills and experience of older people to benefit people in the community.

3. Elderly Councils in France. Many French municipalities have senior consultative Council in which issues of interest to older citizens are debated and local policies or projects are discussed or proposed.

Their aims are to:

- Facilitate dialogue between decision-makers and seniors
- Inform older citizens on community projects and allow them to express their view and comments
- Improve older people's lives within the community and better respond to their needs

4. Sustainable Learning in the Community. The SLIC project, coordinated by the Austrian Red Cross, aimed to empower older people to become active citizens, encouraging the development of skills and competences through formal and informal learning opportunities and directly linking the concepts of lifelong learning and community involvement.