

Family Medicine for English language students of Medical University of Lodz

Seminar 3



Prevention in Family Medicine

Our timetable for today

- 1.1Definition of prevention
- 1.2 Definition of health promotion
- 1.3 The aims of prevention and health promotion in the primary care and Family Medicine.
- 2.1Leading causes of death
- 2.2 Preventable diseases
- 2.3 Effectiveness and cost-effectiveness of prevention and health promotion
- 3.1Main aims of he prevention and health promotion in developed countries
- 3.2 Main aims of he prevention and health promotion in developing countries
- 3.3 Prevention and health promotion within special patient groups
- 4.1 Design a GP's activity in prevention and health promotion in your country students' project
- 4.2 ---"---
- 4.3 Concluding remarks

Levels of prevention:

- Primary: Prevention of disease occurrence (true prevention)
- Secondary: Screening for asymptomatic diseases (early detection)
- Tertiary: Treatment of symptomatic diseases to minimise complications (morbidity reduction)

Criteria of screening justification:

- 1. The prevalence of the disease and the burden of suffering caused by disease must be high enough to justify widespread screening
- 2. The condition must have an asymptomatic period during which the treatment will significantly reduce morbidity an mortality
- 3. Acceptable methods of treatment must be available at a reasonable cost
- 4. The screening test and interventions must be effective, with few adverse effects
- 5. The screening test must have a high sensitivity

Leading causes of death in the USA

FORMAL NAME	INFORMAL NAME	% ALL DEATHS
(1) Diseases of the heart	heart attack (mainly)	28.5%
(2) Malignant neoplasms	cancer	22.8%
(3) Cerebrovascular disease	stroke	6.7%
(4) Chronic lower respiratory disease	emphysema, chronic bronchitis	5.1%
(5) Unintentional injuries	accidents	4.4%
(6) Diabetes mellitus	diabetes	3.0%
(7) Influenza and pneumonia	flu & pneumonia	2.7%
(8) Alzheimer's Disease	Alzheimer's senility	2.4%
(9) Nephritis and Nephrosis	kidney disease	1.7%
(10) Septicemia	systemic infection	1.4%
(11) Intentional self-harm	suicide	1.3%
(12) Chronic Liver/Cirrhosis	liver disease	1.1%
(13) Essential Hypertension	high blood pressure	0.8%
(14) Assault	homicide	0.7%
(15) All other causes	other	17.4%

[Source: National Vital Statistics Report, Volume 53, Number 5 (October 2004)]

5 Leading causes of death in the USA

within age group 15-24

CAUSE	PERCENT OF TOP 5	NUMBERS
(1) Accidents	51.8%	12,752
(2) Homicide	21.3%	5,233
(3) Suicide	16.3%	4,003
(4) Cancer	6.8%	1,670
(5) Heart Disease	3.9%	961

Leading causes of death in the USA including preventable diseases

Table 8.1.

Leading Actual and Reported Causes of Death in the United States, 1990

Leading Actual Causes	Deaths	Leading Reported Causes	Deaths
Tobacco	400,000	Coronary heart disease	720,000
Diet (obesity, cholesterol, etc.) and inactivity	300,000	Cancer	505,000
Alcohol	100,000	Strokes	144,000
Infections/immunizations	90,000	Accidents	92,000
Toxins	60,000	COPD	87,000
Firearms and motor vehicles	60,000	Pneumonia/influenza	80,000
Sexual behavior	30,000	Diabetes	48,000
Illicit drug use	20,000	Suicide	31,000

Preventive Services recommended in the USA

Table of Recommended Preventive Services				
	Adults		Special Populations	
Recommendation	Men	Women	Pregnant Women	Children
Alcohol Misuse Screening and Behavioral Counseling Interventions	`	1	1	
Aspirin for the Primary Prevention of Cardiovascular Events ¹	*	1		
Bacteriuria, Screening for Asymptomatic			1	
Breast Cancer, Chemoprevention ²		1		
Breast Cancer, Screening ³		1		
Breastfeeding, Behavioral Interventions to Promote ⁴		1	1	
Cervical Cancer, Screening ⁵		1		
Chlamydial Infection, Screening ^{6,7}		1	- ✓	
Colorectal Cances Screening	1	1		

Preventive Services recommended in the USA (cont.)

	Adults		Special Populations	
Recommendation	Men	Women	Pregnant Women	Children
Dental Caries in Preschool Children, Prevention?				1
Depression, Screening ^{to}	1	✓		
Diabetes Mellitus in Adults, Screening for Type 2 ¹¹	1	1		
Diet, Behavioral Counseling in Primary Care to Promote a Healthy ¹²	·	1		
Hepatitis B Virus Infection, Screening ¹³			✓	
High Blood Pressure, Screening	1	4		
Lipid Disorders, Screening 14,15	/	-/		
Obesity in Adults, Screening ¹⁶	1	1		
Osteoporosis in Postmenopaus al Women, Screening ¹⁷		1		

Preventive Services recommended in the USA (cont.)

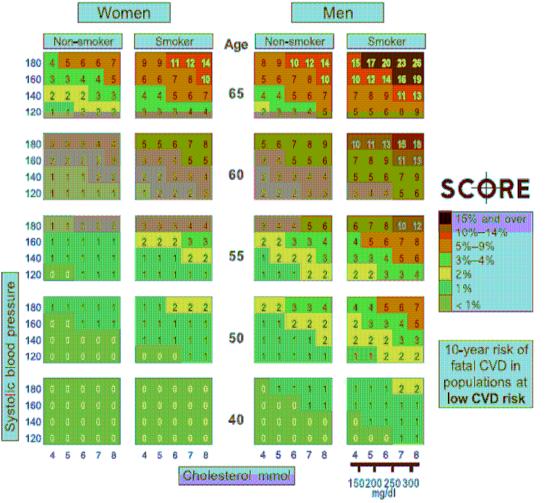
Recommendation	Adults		Special Populations	
	Men	Women	Pregnant Women	Children
Rh (D) Incompatibility, Screening 10,15			1	
Syphilis Infection, Screening ²⁰	1	1	1	
Tobacco Use and Tobacco-Caused Disease, Counseling to Prevent ^{21,22}	1	,	/	
Visual Impairment in Children Younger than Age 5 Years, Screening ²³				,



Cardiovascular prevention



CV Risk.lnk



Ten-year risk of fatal cardiovascular disease in populations at low cardiovascular disease risk (according to the SCORE study).

Patient education and counselling



- Use your position wisely
- Focus on your patients
- Agree on priorities
- Define available goals
- Give written instructions
- Show that it is important
- Recognise effort and accomplishment
- Individualise your advice
- Take advantage of outside resources
- Encourage social support
- Arrange appropriate follow-up
- Be realistic