



Social Determinants of Non-Communicable Diseases in the occupied Palestinian Territory

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Introduction

Why looking at Social determinants of health(SDH)?

SDH are major source of *HEALTH INEQUALITIES*

Definition:

HEALTH INEQUALITIES are unequal health opportunities and outcomes between different social groups that are systematically distributed, unfair and socially produced.

Jabbour Samer, Giacaman Rita, Khawaja Marwan, Iman N (2012) **Public Health in the Arab World**, first edn. Cambridge University Press, New York



The Palestinian population has endured ongoing conflict since 1948, with the first Arab Israeli war and the creation of the State of Israel

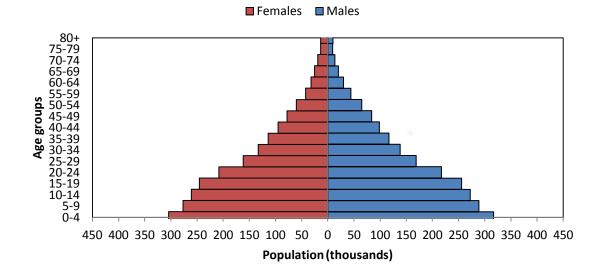
The West Bank and the Gaza Strip have been occupied by the Israeli military since 1967

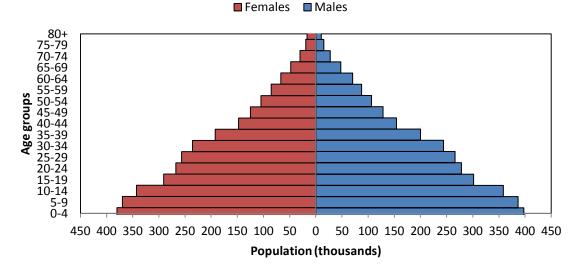
The interactions between different political, economic, social and cultural factors have shaped and modified the characteristics of the Palestinian population

Map No. 3243 Rev.4 UNITED NATIONS

Department of Public Information Cartographic Section

Palestinian Population Pyramid 2011-2025

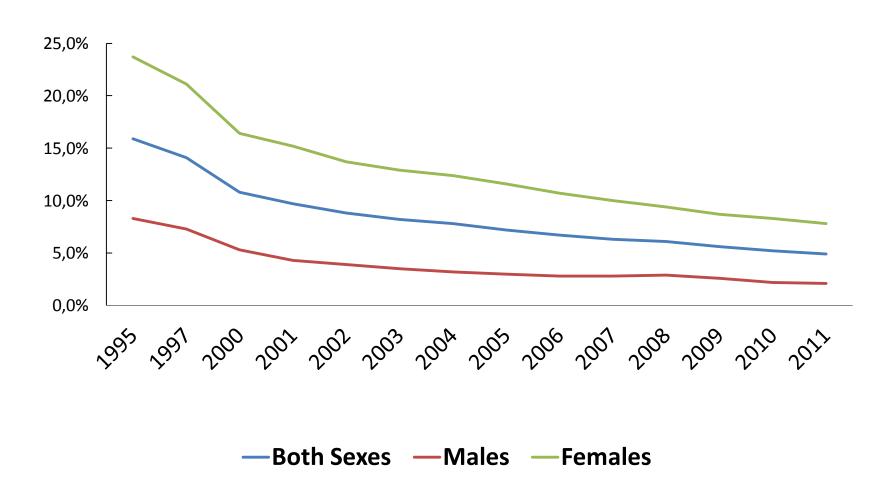




Selected Characteristics

		oPt	West Bank	Gaze strip	year
Population size	N	4,231,084	2,614,594	1,616,490	2011
Sex distribution	Males	50.8%	50.8%	50.8%	2011
	Femles	49.2%	49.2%	49.2%	2011
Literacy Rate (age: 15+)	Both sexes	95.30%	95.10%	95.50%	2011
	Males	97.90%	97.90%	97.70%	2011
	Females	92.60%	92.20%	93.30%	2011
Poverty level	Poverty	25.7%	18.3%	38.0%	2010
	Deep poverty	14.1%	8.8%	23.0%	
% urbanized		73.8%	69.0%	81.5%	2011
Unemployement level (15 years and above)	Both sexes	20.9%	17.3%	28.7%	2011
	Males	19.2%	15.9%	25.8%	2011
	Females	28.4%	22.7%	44.0%	2011

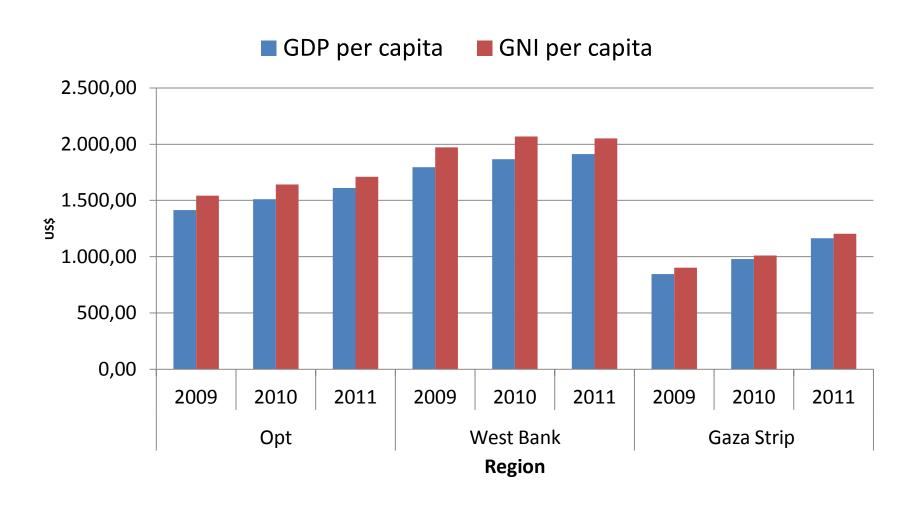
Figure 3: Illiteracy rate among the Palestinian population (age 15+) by sex and year



Economic and Development Indicators

Indicator	oPt	West Bank	Gaze strip	year
GDP	9982 US\$ million	7086 Millon US\$	2896.1 Million US\$	2011
GDP per capita	2541 US\$	3029.7 US\$	1822.7 US\$	2011
GNI	10647 Million US\$	7658 Million US\$	2989Million US\$	2011
GNI per capita	2710.8 US\$	3274.1 US\$	1881.5 US\$	2011
Human development index	0.67			2012
GINI	35.5			2009

Figure 2: GDP and GNI per capita in the occupied Palestinian territory by region at constant price (US\$)



Political instability (Occupation)

- Underdevelopment and de-development
- Destruction of institutional infrastructure.
- Severe budgetary restrictions.
- No control over land or water.
- Siege and closures checkpoints
- West Bank totally separated from Gaza strip.
- West Bank divided into areas and separated by checkpoints.

Selected Health Indicators

Indicator					
		oPt	West bank	Gaza Strip	Year
Total fertility Rate		4.1	3.8	4.9	2008- 2009
Under 5 mg	ortality rate	21/1000			2011
Infant Mo	rtality rate		18.8/1000		2011
Maternal mortality rate			28/100,000		2011
Crude death rate		03.9/100	04.0/1000	03.8/100	2012
Crude birth rate		32.7/100	30.1/1000	37.3/100 0	2012
Natural growth rate		3.0%	2.7%	3.5%	2012
life	Both Sexes	72.7	73.1	72.1	2012
expectancy	Males	71.4	71.7	707	2012
at birth (years)	Females	74.0	74.5	73.5	2012

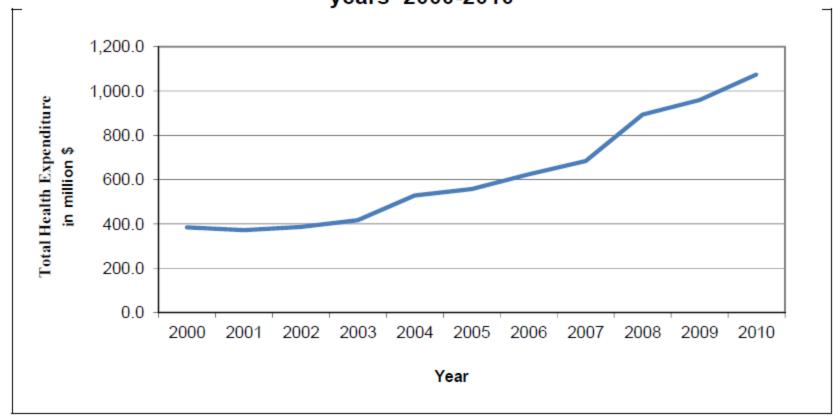
Table 3: Selected health care/services indicators

Indicator		Value				
		oPt	West bank	Gaza Strip	Year	
Percent with no		Total	17.8%	26.8%	3.3%	2011
health insurance		Urban	17.4%			2011
		Rural	28.3%			2011
			3.2%			2011
		Males	18.5%			2011
		Females	16.9%			2011
Social insurance of	over	age	<mark>NA</mark>			
Number of	Doc	tors	1.6	1.3	2.3	2011
per 1000 population	Nur	ses	2.6	1.8	3.8	2011
	Den	tists	0.6	0.7	0.5	2011
	Pha	rmacists	1.2	1.1	1.4	2011
	Hos	pital beds	1.2	1.2	1.3	2011

Health care expenditure 2010

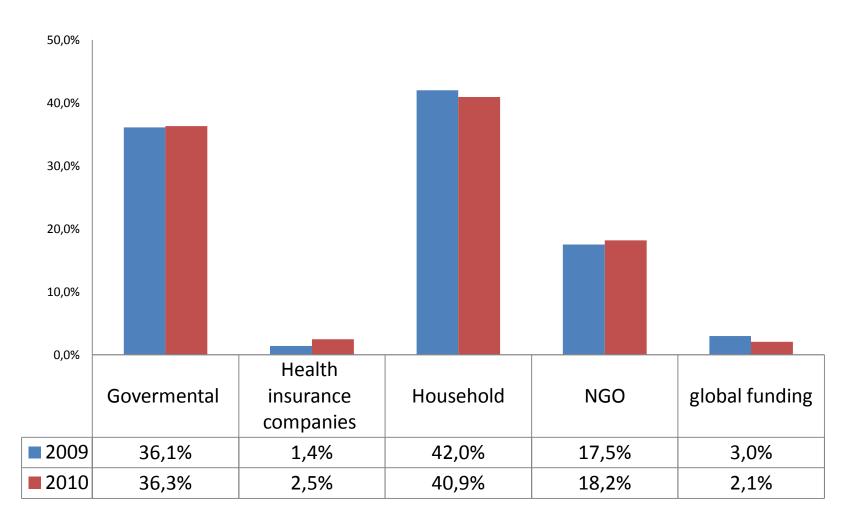
Туре	Value
Health care expenditure	1074.4 Million US\$
Health care expenditure per Capita	282 US\$
Percentage of health expenditure out of the GDP	13.70%

Health expenditure trend line in the Palestinian Territory for the years 2000-2010



Source: PCBS. National Health accounts report (2009-2010).

Figure 4: Distribution of funding for health care expenditure in the oPt 2009-2010



Non-communicable diseases: Risk factors, Mortality and Morbidity

Non-communicable diseases

Definition:

"Noncommunicable conditions (diseases): A descriptive term for common and important conditions of public health importance that are not caused by infectious pathogens. Formerly some of these were classified as "chronic diseases," but this term is a misnomer when applied to cardiovascular disease such as acute myocardial infarction that causes sudden death. Even the adjective "noncommunicable" may be misleading when applied to cervical cancers caused by papilloma virus, some behavioral epidemics, or traffic-related injury and disability"

Source: Dictionary of Public health John Last 2007

1. Mortality

Health conditions included were:

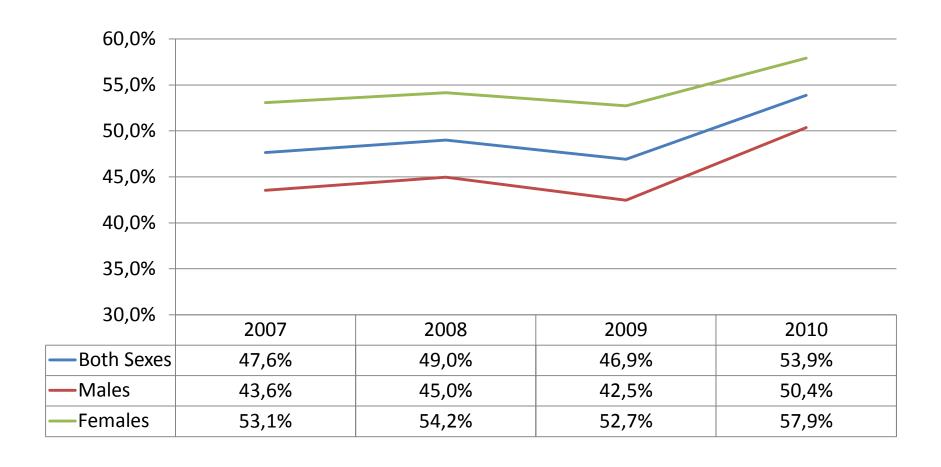
(based on availability of data)

DM - HTN - Heart Disease - Cerebrovascular Disease - Disease of Arteries - Malignant neoplasm

Duration: 2007-2010

Source: MoH annual reports – cause of death mortality statistics

Proportionate mortality rate from NCDs in the oPt by sex and year



Morbidity Prevalence of Hypertension and Diabetes (Measured)

Disease	Definition		oPt	West Bank	Gaza Strip
Hypertension	Percentage of Raised BP (SBP \geq 140, DBP \geq 90 or	Both sexes	45.3%	39.5%	55.8%
	on medications	Males	44.8%	39.4%	54.8%
		Females	45.7%	35.7%	56.8%
Diabetes	Proportion of raised FBS (≥ 126mg/dL	Both sexes	12.5%	12.7%	12.1%
	venous blood glucose)	Males	14.0%	14.2%	13.5%
		Females	11.0%	11.1%	10.8%

Source: The WHO stepwise survey 2010

Metabolic Risk Factors

Risk factor		oPt	West Bank	Gaza Strip
Hypercholesterolemia	Both sexes	47.4%	50.0%	42.1%
Parentage of Raised Total Cholesterol (≥5mmole/L) (age 25-64)	Males	48.1%	52.0%	40.3%
	Females	46.6%	47.9%	44.0%
Obesity	Both sexes			
•		71.9%	70.0%	75.2%
Percentage Overweight and	Males			
Obese		68.1%	67.8%	68.6%
	Females			
		76.1%	72.5%	82.6%

Behavioral Risk Factors

Risk factor		oPt	West Bank	Gaza Strip
Percentage who currently	Both sexes	23.90%	27.5%	17.1%
smoke tobacco	Males	44.30%	49.3%	34.6%
	Females	3.50%	5.3%	0.3%
% of low level physical activity (<600 met-min/week) (both sexes)	Both sexes	49.90%	48.6%	52.1%
	Males	38.30%	35.3%	43.5%
	Females	61.60%	62.0%	60.9%
	Both sexes	86.10%	80.7%	96.0%
Percentage who ate less than 5 servings of fruits and vegetables	Males	86.10%	80.7%	96.0%
	Females	86.10%	80.7%	96.0%

Health system in the oPt

- Established unit for the prevention and control of NCDs with dedicated staff and budget in the national health authority in 2011
- A multi-sectoral national policy for NCD inline of the global strategies was developed in 2010.
- A Palestinian tobacco control law was passed in 2005.

Conclusion

- High Level of NCDs and their risk factors in the oPt
- Limited data on mortality, morbidity and risk Factors
- Variations observed by region and sex.
- High level of urbanization, unemployment, and poverty in addition to the effects of the occupation.

Recommendations

- Improve availability and quality of data through conducting surveys and establishing registries.
- Implementation of available strategies and policies targeting NCDs.
- Establishing prevention programs targeted classical and social determinants of NCDs.
- Intersectoral collaboration should be enhanced between different health stakeholders.