

Presentational Works, University Selloo

South Allica

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Background: Transition, Risk factors, Burden of

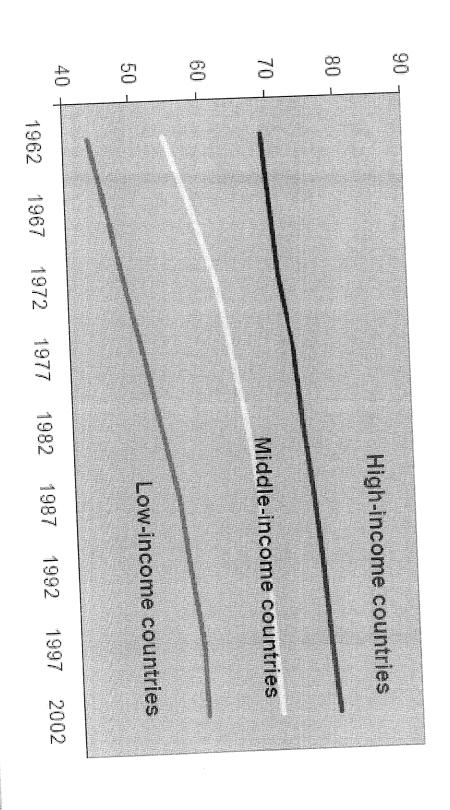
- Sexual and reproductive health risks
- 2. Addictive substances
- 3. Environmental risks
- 4. Injury and violence
- 5. Lack of preventive health care
- 6. Wental health risk
- Vector risk
- Lack of adherence to treatment in medical conditions
- Childhood and maternal undernutrition
- Global health behaviour interventions 10. Other diet-related risk factors & physical Dactivity

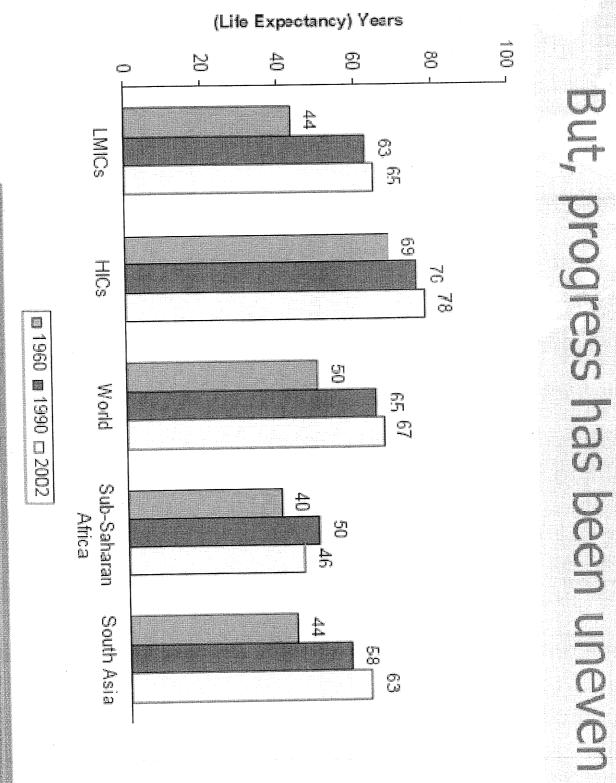
A change in the population dynamics of a mortality rates to low fertility and mortality country as it moves from high fertility and

A transition from infectious disease to chronic, degenerative, or man-made diseases as the primary causes of mortality.

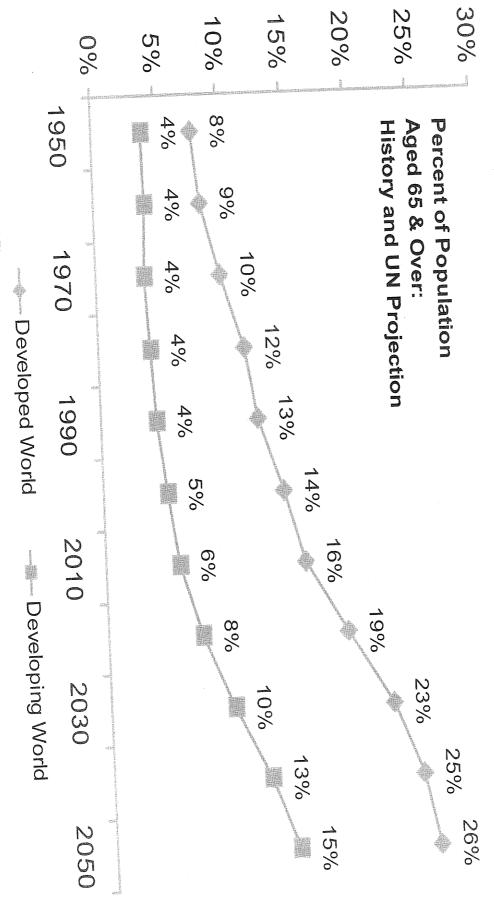


Life Expectancy (years)



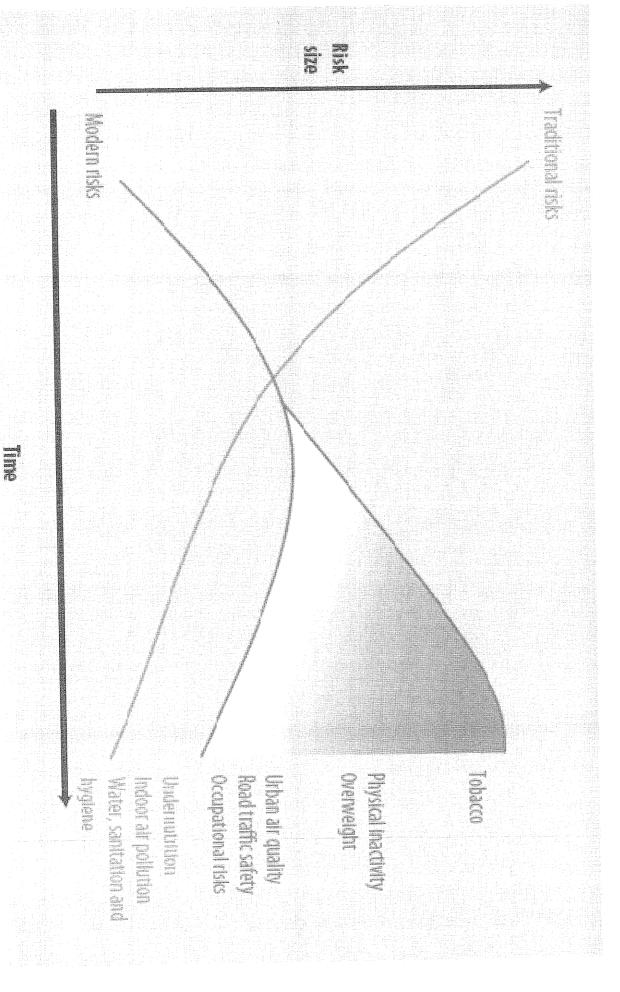


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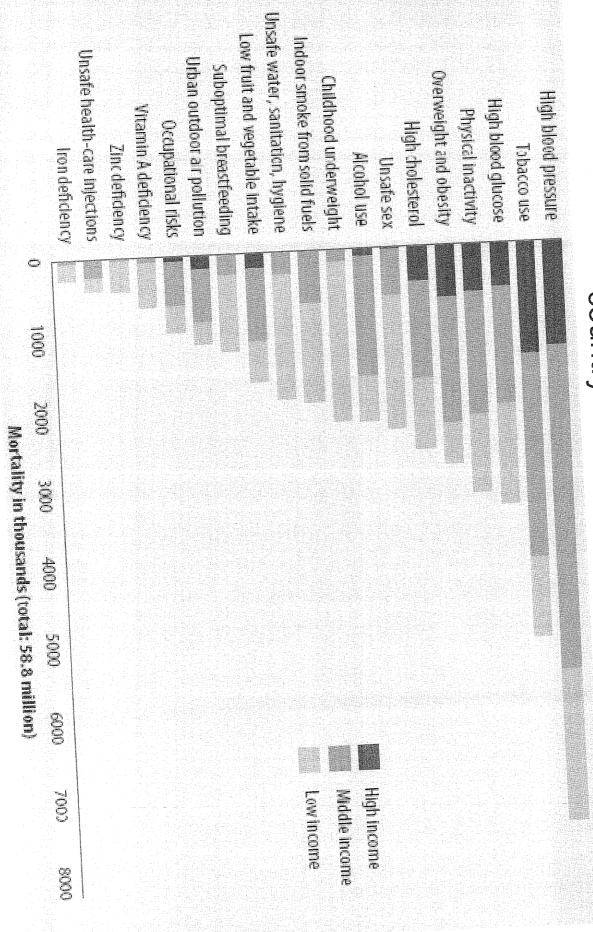


Source: 172 (2005)

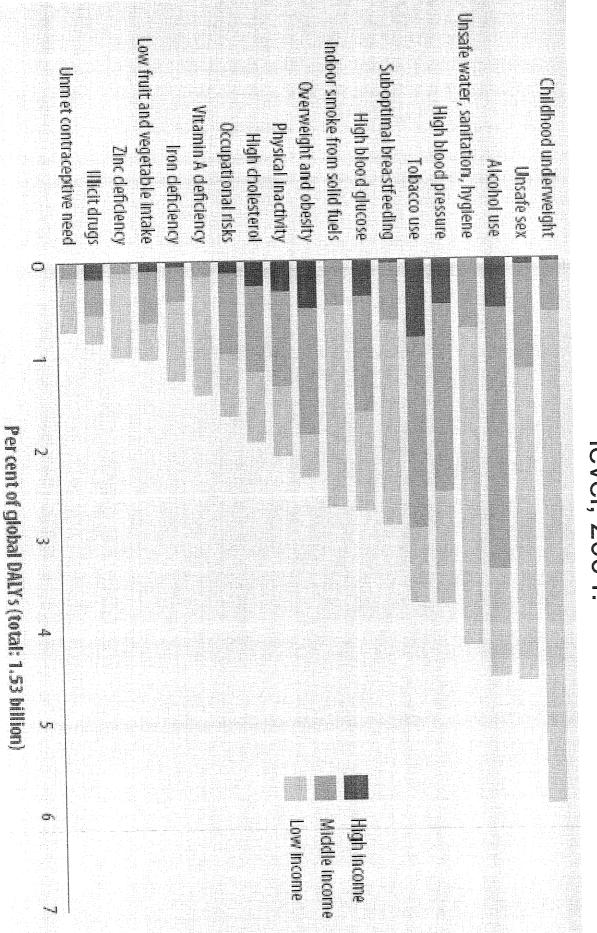




Deaths attributed to 19 leading risk factors, by country income level, 2004



attributed to 19 leading risk factors, by country income Percentage of disability-adjusted life years (DALYs) level, 2004.



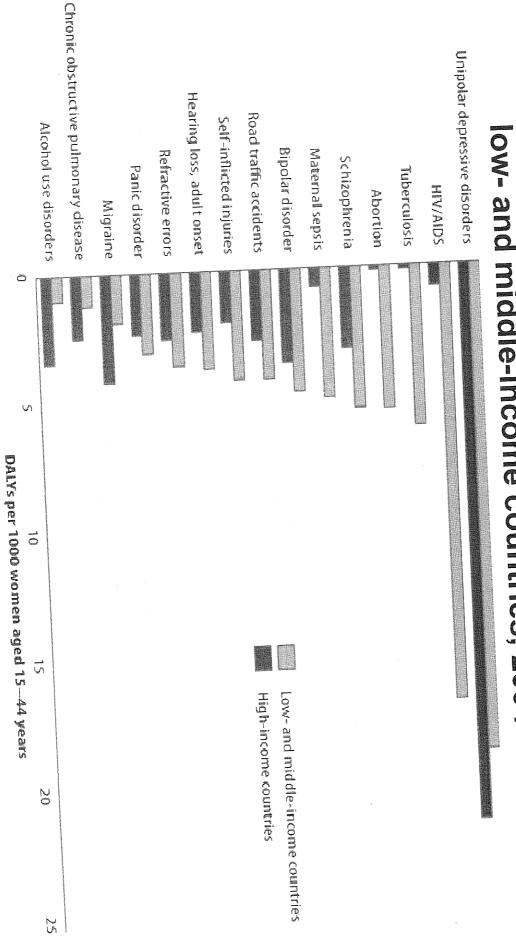
Leading causes of burden of disease (DALYs), countries grouped by income, 2004

Myddle income countries 1 Unipolar depressive disorders 2 Ischaemi cheart disease 3 Cerebrovascular disease 4 Road traffic accidents 5 Lower respiratory infections 6 COPD 7 HIV/AIDS 8 Alcohol use disorders 9 Refractive errors	World Lower respiratory infections planihoeal diseases Unipolar depressive disorders HIV/AIDS Cerebrovascular disease prematurity and low birth weight prematurity and birth trauma Road traffic accidents proportal infections and other
29.0 5.1 1 Unipolar depressive disorders 28.9 5.0 2 ischaemic heart disease 27.5 4.8 3 Cerebrovas cular disease 27.4 3.7 4 Alzheimer and other dementias 16.3 2.8 5 Alcohol use disorders 16.1 2.8 6 Hearing loss, adult onset 15.0 2.6 7 COPD 13.7 2.6 8 Diabetes mellitus 13.7 2.4 9 Trachea, bronchus, lung cancers 13.1 2.3 10 Road traffic accidents	Per cent of total phacks on mility controlles of total Low-income countries pages 72.8 4.8 2 Diarrhoeal diseases 72.8 4.3 3 HIV/AIDS 65.5 4.3 4 Malaria 62.6 3.1 6 Prematurity and low birth weight 58.5 3.8 5 Prematurity and other pages 44.3 2.9 7 Birth asphyxia and birth trauma 44.3 2.7 8 Unipolar depressive disorders 41.2 2.7 9 Ischaemicheart disease 40.4 2.7 Inberculosis
7.7 6.3 4.8 3.9 4.4 3.6 4.2 3.4 4.2 3.4 3.7 3.0 3.6 3.0 3.6 3.0	DALYS Official DALYS (millions) Official DALYS (millions) 93 93 5.2 42.9 5.2 42.9 5.2 3.9 32.1 3.8 3.6 3.6 3.2 22.4 2.7

-Diamhoeal diseases

COPD, chronic obstructive pulmonary disease. Countries grouped by gross national income per capita (see Annex C, Table C2).
This category also includes other non-infectious causes are responsible for about 20% of DALYs shown in this category.
birth trauma and asphyxia. These non-infectious causes are responsible for about 20% of DALYs shown in this category.

aged 15-44 years, high-income countries, and Leading causes of disease burden for women low- and middle-income countries, 2004



health risks

- Unsafe sex
- Lack of contraception

3. Addictive substances

- Tobacco

The SIX IVPOWER strategies > tobacco control (WHO, 2008)

Monitor tobacco use and prevention policies Protect people from tobacco smoke Offer help to quit tobacco use and sponsorship Enforce bans on tobacco advertising, promotion Warn about the dangers of tobacco Raise taxes on tobacco

Alcohol Prevention Strategies [Babor, 2009]

- Pricing and Taxation
- Regulating Physical Availability
- Altering the Drinking Context
- Education and Persuasion
- Regulating Alcohol Promotion
- Drinking-Driving Countermeasures
- Treatment and Early Intervention

Regulation Grays Cally Nation (Babor, 2009)

		No.	X	
Strategy or Intervention	Effective	Research		Cost
0	ness	S L D D O I T	Testing	
Total ban on sales	+ + + +	+++	+	High
Minimum legal purchase	+ + + +	++++	+++	Low
age				
Rationing	++	+++	++	High
Government monopoly of	++++	++++	+	Low
retail sales				4
Hours and days of sale	++	+++	++	Low
restrictions				4
Restrictions on density of	+++	++++	+++	Low
outlets				
Different availability by	++	++	+	Low
alcohol strength				

Todiying the Drinking Context

COINIUM INDUITATION	Committee mobilization	requirements	regulations and legal	Enforcement of on-premise	Voluntary codes of bar	hetter manage aggression	managers to prevent and	intoxicated patrons	Outlet policy to not serve			Strategy or Intervention	
	+			++	0			+	+	ness	Ve	Effect	
	++			+	+			+	+++++	nem proposite de la composite d	Support	Research	
	+		AND THE PARTY NAMED IN	+++	+			+	++	Testing	2		
	00			H.	Low			Moderate	Moderate			Cost	

Dr. Sag College Beastres

				and ride services
MIONCIACE	+	+	0	Designated drivers
Moderate	-			for novice drivers
	+	++	+++	Graduated licensing
	-			tolerance")
				drivers ("zero
	+	+++	++++	Low BAC for young
Tow				license suspension
TAIOMCH 41CC	+	+	++	Administrative
Moderate	- +	++++++	+++++	Lowered BAC Limits
				testing (RBT)
IATORCIACO	+	+	++++	Random breath
Moderate	- +	++++	++	Sobriety check points
Morato			ness	Intervention
000		Tesearch	T. CONC.	Strategy or
}	1			

reatment and mary intervention

Strategy or	Effective-	Research	Cultural	Cost
Intervention	ness	Subjust	+ 0	Moderate
Brief intervention)n ++	++++	-	
with at-risk				A .
drinkers		- 	+++	High
Alcohol problems	ns +			
treatment			++	OW
Mutual help/self-	+	-1	-	
help attendance		-		Moderate
Mandatory	+	+	-	
treatment of				-
repeat drinking-	<u> </u>			
drivers				

for Illicit Drugs Linked to the Alcohol, Screening Test (ASSIST) in Primary Health The Effectiveness of a Brief Intervention Smoking and Substance Involvement Care Settings:

Randomized Controlled Irial Phase I Findings of the WHO ASSIST

What is Screening, Brief Intervention and Referral (SBIR)?

Screening to find:
-- at-risk drinkers (and drug users)

-- possible alcohol (and drug)

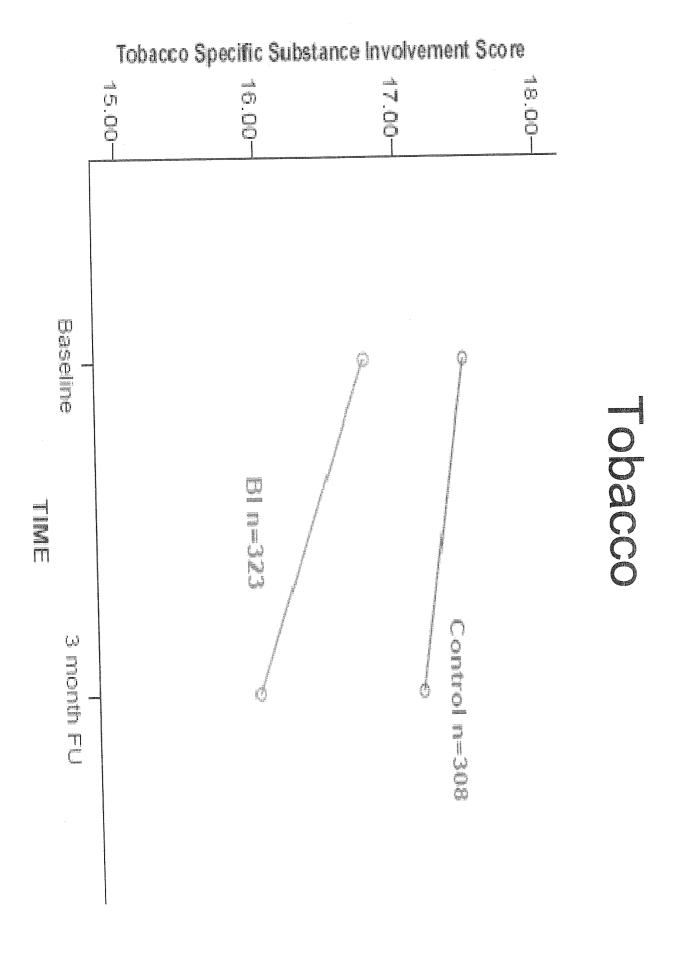
dependence

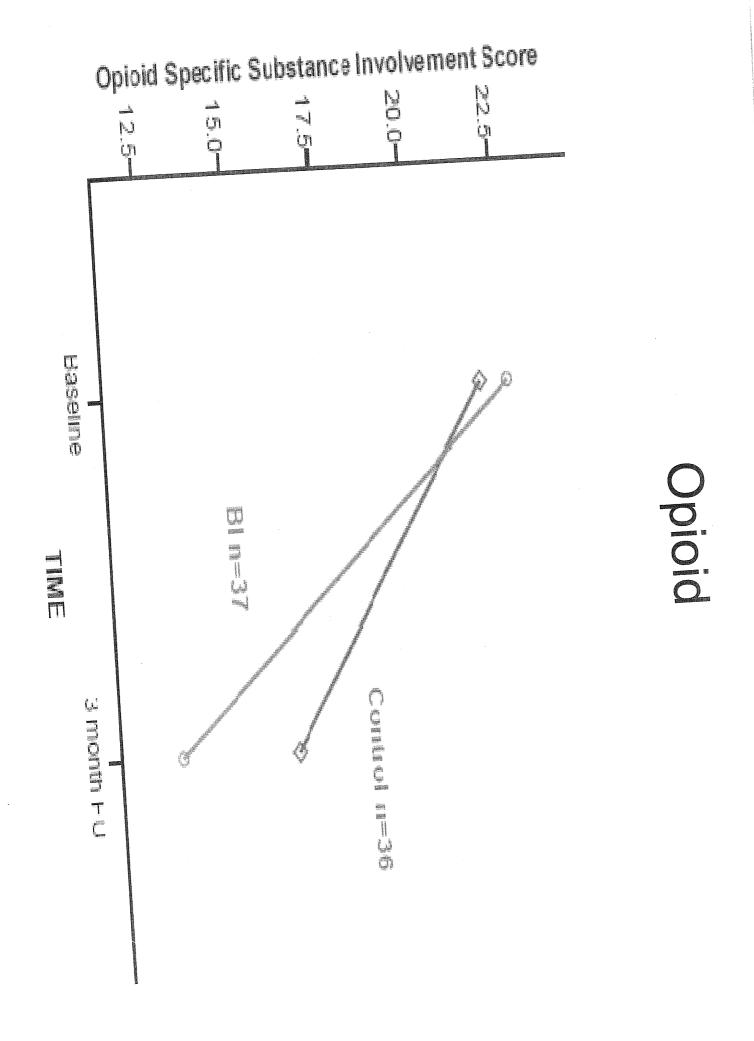
Brief Intervention -- Early detection

--Time limited

-- Low cost, easy to use

Referral of more serious cases to further diagnostic assessment specialized care

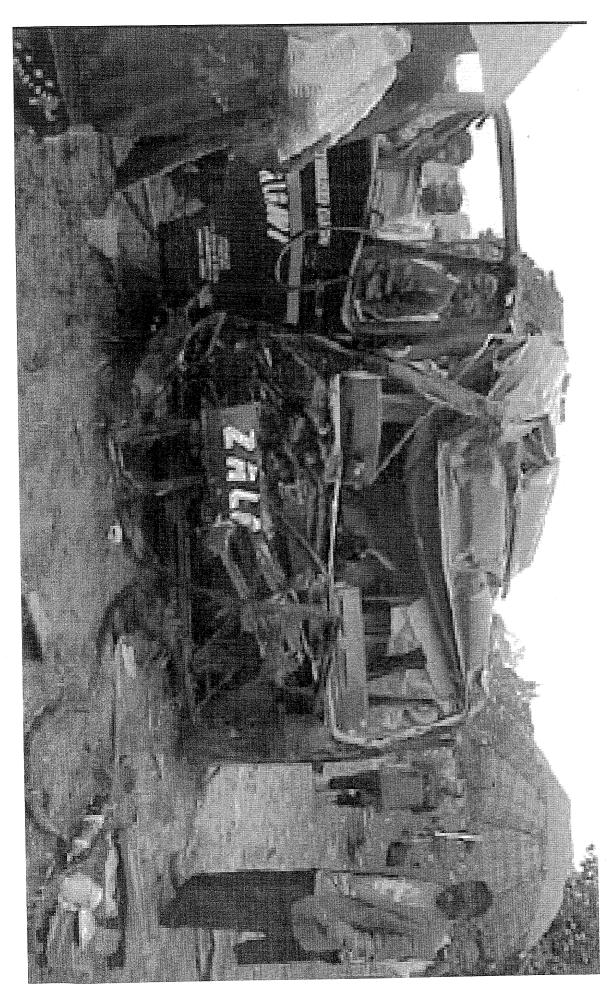




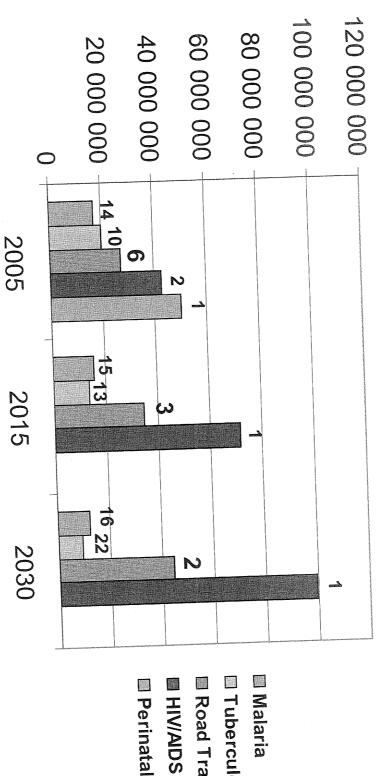
- Unsafe water
- Sanitation and hygiene
- Crban air polution
- Lead exposure

ndoor smoke from solid fuels

Climate change



income countries (male population)



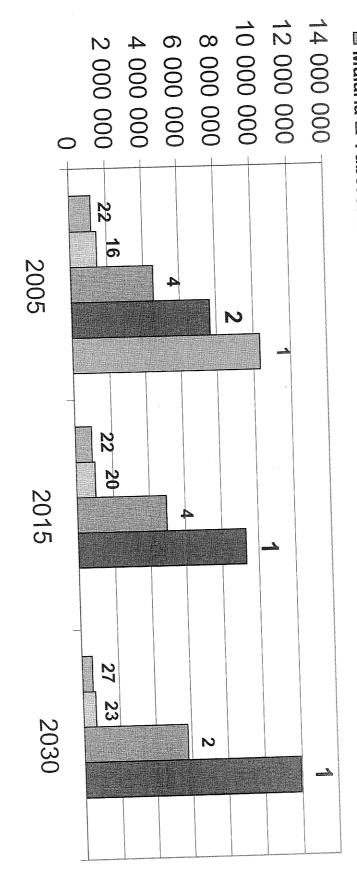
- Tuberculosis
- Road Traffic Injuries
- Perinatal Conditions

Source: Mathers C, Loncar D. Updated projections of global mortality & burden of disease, WHO, 2005



income countries (children age 5-14)

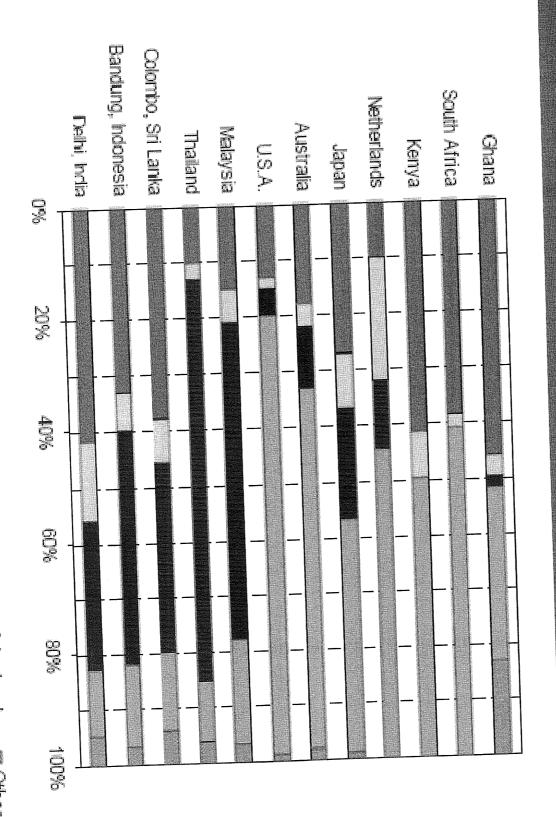
■ Malaria ■ Tuberculosis ■ HIV/AIDS ■ Road Traffic Injuries ■ Lower respiratory infections



Source: Mathers C, Loncar D. Updated projections of global mortality & burden of disease, WHO, 2005



Road User fatalities



Pedestrians Bicyclists Motorized 2-wheelers Motorized 4-wheelers Cther

police enforcement)

- a) Excessive speeding and driver negligence
- b) Alcohol and drug use
- c) Poor skills/knowledge
- d) Driver fatigue, stress and aggression
- e) Other impairment: vision
- f) Seatbelt, helmet use

b) Alcohol related death in South Africa

(2005)	NIMSS*	NIMSS*		
	53.5% (0.16)	55.3% (0.17)	BAC positive (Mean BAC	Driver
) 58.7% (0.15)) 59.4% (0.22)	BAC positive (Mean BAC)	Pedestrian
	45.0% (0.16)	36.9% (0.2)	BAC positive (Mean BAC)	Cyclist

*National Injury Mortality Surveillance System

rack of seatbert use (observed)

		Non-wearing of seatbelt (observed)
Nantulya et al. (2001)	Kenya	99% of car occupants injured in crashes
Sangowawa et al. (2006)	Nigeria	52% drivers 95.9% restraint use among children
Iribhogbe & Osime (2008)	Q Q e T a	47.7% drivers 81.6% front seat passengers 93.9% rear seat passengers
Peltzer (2003)	South Africa	53% drivers
Department of Transport (2003)	South Africa, rural roads	67.5% drivers unobserved 14.2% drivers at roadblock 33.3% front passengers at roadblock 92.3% back passenger at roadblock

Ton-helmet use

Author	Country, sample	Non-helmet use on motor cycle
Asigwa (1982)	Nigeria, motorcyclist	8%
Amoran et al. (2005)	Nigeria, commercial motorcyclists	100%
Oginni et al. (2007)	Nigeria, commercial motor cyclists	82.4%
Flisher et al. (1993)	South Africa, school children on motorcycle	47.9%
Flisher et al. (2006)	South Africa, school children on motorcycle	18.9%

Mat works?

- interventions in low and middle income countries Iterature in road traffic injuly control S
- Systematic review limited to low and middle income country intervention evaluations
- Speed bumps Afukaar (2003).
- Bicycle helmets Li and Baker (1997)
- Motorcycle helmets Tsauo (1999)
- Traffic enforcement (Poli de Figuereido, 2001)

Safer people interventions (Forjuoh, 2003)

Bicyclist	Motorcyclist Helmets*	Prevention target Occupant
Helmets*	Helmets*	Proven Seatbelt* Airbags Child safety seats Seat belt use laws Child seat use laws
*Readily usable Combined with other strategies Policies? Barriers (attitudes/costs)	*affordable/teasible	Applicability in developing countries *affordable/feasible Combined strategy: laws, public education, enforcement (primary & secondary)

*Denotes intervention with some evaluation in LICs

Safer Deople Interventions

(Forjuoh, 2003)

Prevention target	Proven	Applicability in developing countries
Pedestrian	Sidewalks Roadway barriers*	*Feasible Combined with public
	Pedestrian crossing signs*	education
	Education on conspicuity-	
	enhancement measures	
Cross-cutting Speed limits*	Speed limits*	*Useable
	Speed ramps/bumps*	Need strict enforcement &
	Alcohol sobriety checkpoints	other traffic-calming
	Lower BAC laws	strategies
	Minimum drinking age laws	→Hours of driving for
		commercial and public
		drivers
		→Policy to prevent culture of
		impunity

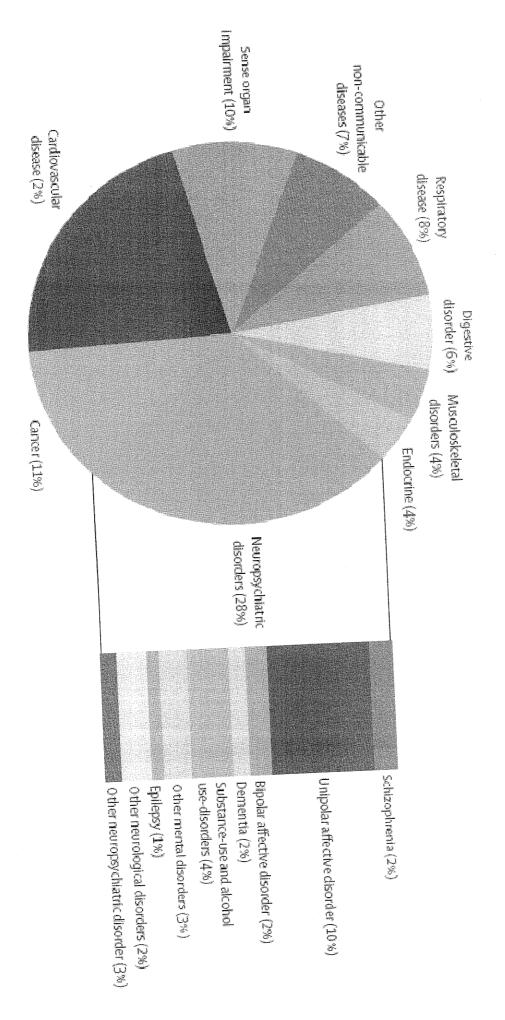
*Denotes intervention with some evaluation in LICs

6) Lack of preventive heath care

- mmunization
- Prenatal care
- Cancer screening
- Prediabetes
- Prehypertension
- Conditional cash transfers for preventive health care

- Schizophrenia
- **Wood disorders**
- Anxiety disorders
- Somatization

Global Prevalence of Mental Health Disorders



Ref: Prince M, Patel V, Saxena S, et al. No health without mental health. Lancet. 2007;370:859-877.

	Depression	Generalized anxiety disorder	Somatization	Any diagnosis (except harmful use of	Harmful use of alcohol
	% recognized	% recognized	% recognized	% recognized	% recognized
Rio de Janeiro, Brazil		ß	ŧ	6	ē
Santiago, Ohile	7	9	69	7.	
		Ŋ			
Pars, France	8	9	Ŏ,	47	,
		Ö			
Mainz, Germany	50	g on	80	8	Č
	N			Table 1	
Bangalore, India	Å	8	6	Č	
Kerona, Italy			S		
Nagasaki, Japan	7	8	•	ö	
Groningen, Netherlands	8	ō	3	رن س	
Ibadan, Nigeria	đ	9	es es	<i>ن</i> ر	Ċ
Anaa lukey	X	Ŋ	2	15	NO
Manchester, United	3	72	100		
Seattle, United States of America	q	*	8	7	N
i ota	Çî L	b	G	L	Not available

Source: adapted from Ústún & Sartorius ** In addition to the diagnoses listed above, dysthymia, agoraphobia, periic, hypochondriasis, and neurasthenia

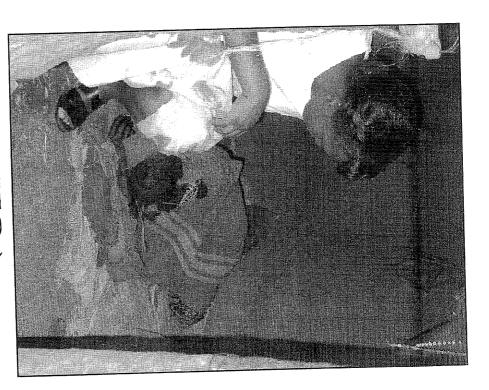
Depression is now the #1 global cause of disability

- 121 million people currently suffer from depression.
- 5.8% of men and 9.5% of women will experience a depressive episode in any given year.

[WHO fact sheet]

#1 leading cause of years of life lived with disability (YLDs)

[WHO World Health Report 2001]



The evidence in support of behavioural depression treatment (Patel el al., 2009)

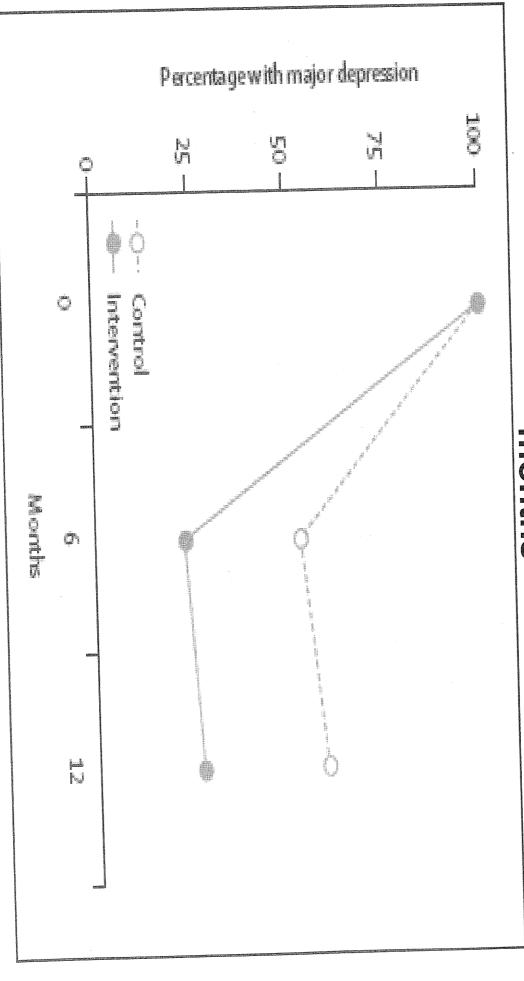
RCT of group interpersonal psychotrierapy [47,46]	Interpersonal therapy
Chile [35]	
RCT of group CBT for depressed primary care patients in	(CBT)
perinatal depression in Pakistan [46]	Cognitive-behavioural therapy
-CIS-R in the community setting in Chile [19]	
[17,18,20,21]	
GHQ and SRQ in primary care in Chile and in Brazil	
-HSCL in pregnant women positive for HIV in Tanzania [59]	
-GHQ in 15-site primary care study [23]	
-SRQ for women of childbearing age in Mongolia [22]	
-K6 for postnatal depression in Burkina Faso [16]	(
-SRQ for perinatal pression in Ethiopia [15]	monitoring
-GHQ, K6, and SRQ in primary care in India [14]	Detection and
	Treatment
Evidence from LMICs	Depression

Cognitive-behavioural therapy for perinatal depression in women in Pakistan

- Mothers in the intervention clusters received the trained Lady Health Workers. Thinking Healthy Programme through 40 specially
- sessions in the first postnatal month, and nine 1for 4 weeks in the last month of pregnancy, three The intervention consisted of a session every week monthly sessions thereafter.
- Health workers received monthly supervision, and they were attending the scheduled visits. were monitored by the research team to ensure that

- Cognitive behaviour therapy techniques:
- active listening,
- ideas), and (i.e., style of questioning to both gently probe for family's health beliefs and to stimulate alternative collaboration with the family, guided discovery
- homework (ie, trying things out between sessions, applied these to health workers' routine practice of maternal and child health education putting what has been learned into practice), and

Comparison of changes in rates of diagnosable major depression after intervention at 6 & 12 months



groups at 6 months and 12 months Figure 2: Rates of depression in Aromen in the control and intervention

Sucide/set-directed violence

- Income countries majority of which (85%) occurred in low- and middle--877 000 deaths were due to suicide in the year 2002; the
- 2.4% by 2020 burden of disease in 2002 and are expected to increase to -Self-inflicted injuries represented 1.4% of the global
- -Attempted suicide can be up to 40 times more frequent than completed suicide.
- attention and they are at high risk for completed suicide. -Many of those who attempt suicide require medical

(WHO, 2002)

Prevention of self-directed

1) Treatment of mental disorders

The early identification and appropriate treatment of depression and other psychiatric problems, alcohol mental disorders is an important prevention strategy and substance abuse problems.

2) Behavioural approaches

People who are suicidal generally express difficulty in solving problems. Behavioural therapy approaches are designed to probe underlying factors and to help effective in reducing suicidal thoughts and behaviour patients develop problem-solving skills. Evidence->

Brief intervention and contact for suicide attempters (Brazil, India, Sri Lanka, Iran, China)

- Suicide attempters:
- a 1-hour individual information session about suicidal alternatives to suicidal behaviours, and referral options risk and protective factors, basic epidemiology, repetition, behaviour as a sign of psychological and/or social distress,
- visits, as appropriate) according to a specific time-line up after discharge, nine follow-up contacts (phone calls or to 18 months
- conducted by a person with clinical experience (e.g. doctor, nurse, psychologist).

(Fleischman et al. 2008)

Suicide prevention trial outcome

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Teament as usual: BC with intervention and contact.

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