

Government of Pakistan Ministry of National Health Services, Regulations & Coordination

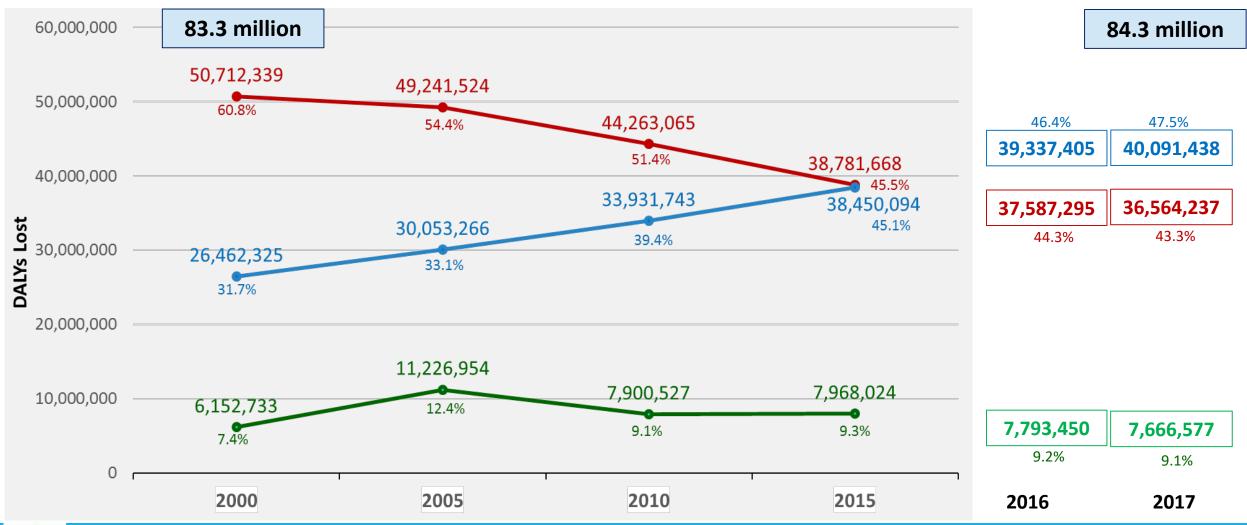


Non-Communicable Diseases BOD, SDGs and UHC

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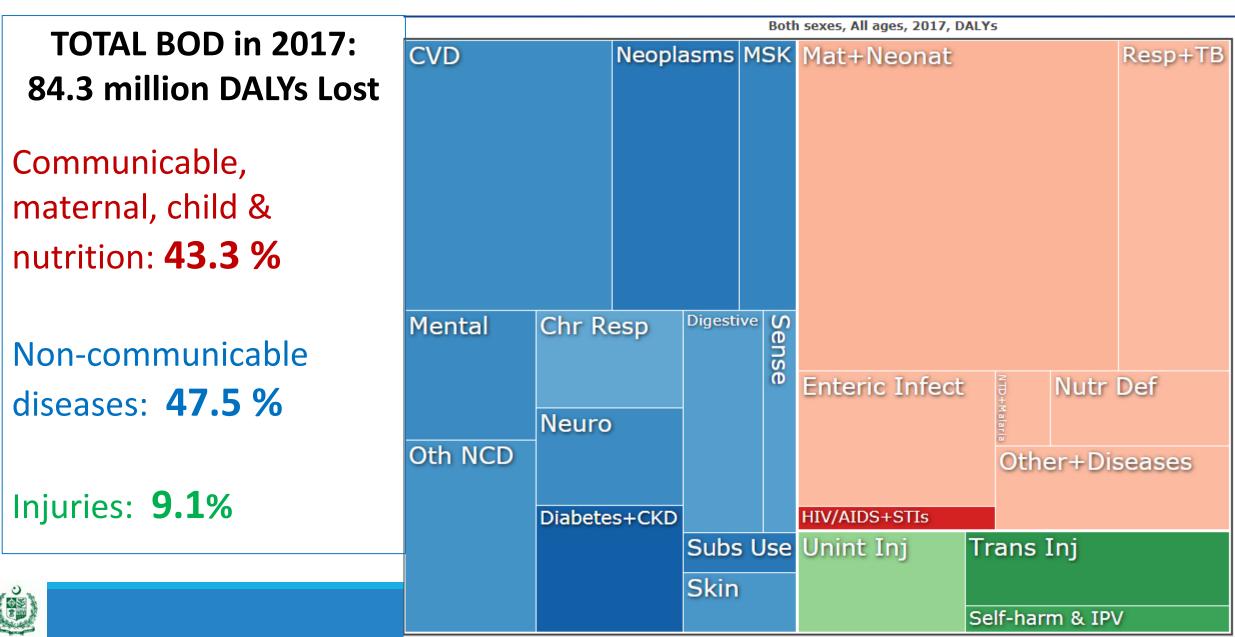
The growing burden of disease (Annual DALYs Lost)





IHME 2018; BOD data for Pakistan 2000-2017

Burden of Disease in Pakistan



Top Ten in 2017

Burden of Disease	Cause of Death	Risk	
Maternal & neonatal	Cardiovascular diseases	Child & maternal malnutrition	
Cardiovascular diseases	Maternal & neonatal	Dietary risks	
Respiratory infections & TB	Neoplasms	High systolic blood pressure	
Neoplasms	Respiratory infections & TB	Торассо	
Enteric infections	Diabetes & CKD	Air pollution	
Other non-communicable	Digestive diseases	High fasting plasma glucose	
Transport injuries	Chronic respiratory	Unsafe water & sanitation	
Other infectious	Enteric infections	High body mass index	
Diabetes & CKD	Transport injuries	High LDL cholesterol	
Digestive diseases	Other infectious	Impaired kidney function	



NCD & Injuries

1990 rank

2017 rank

1 Cardiovascular diseases		1 Cardiovascular diseases
2 Neoplasms		2 Neoplasms
3 Other non-communicable		3 Other non-communicable
4 Digestive diseases		4 Diabetes & CKD
5 Chronic respiratory	·	5 Digestive diseases
6 Mental disorders	<u>````</u>	6 Mental disorders
7 Musculoskeletal disorders	-	7 Musculoskeletal disorders
8 Neurological disorders	/	8 Chronic respiratory
9 Diabetes & CKD	/	9 Neurological disorders
10 Sense organ diseases		10 Sense organ diseases
11 Skin diseases		11 Skin diseases
12 Substance use		12 Substance use
1 Unintentional inj	L	1 Transport injuries
-		
2 Transport injuries		2 Unintentional inj
3 Self-harm & violence		3 Self-harm & violence



	Deaths in Pakistan (2017)							
IHME 2018; BOD data for Pakistan 2017		CD & MN account for 31.5% of tota > 446k deaths		NCDS account for 60.3% of total deaths > 853k deaths		Injuries account for 8.16% of total deaths > 115k deaths		
	26.9% of total deaths 12.0		Cancer 12.0% >170k death	of total deaths	Diabetes & CKD 5.5% of total deaths >77k deaths		Digestive 5.1% of total deaths >72k deaths	
	4.9% of total deaths 2.3			logical of total deaths s	Mental disorder 0% of total deaths <10 deaths		Musculoskeletal: 0.2% Other NCDs: 3% Sense organ: 0 Skin: 0.01% Substance abuse: 0.18%	

Years Lived with Disability in Pakistan (2017)							
CD & MANCHaccount for21.2% of total YLD> 4.35 million YLD> 14.8 million			Injuries account for 6.14% of total YLD > 1.25 million YLD				
CVD 2.6% of total YLD >0.5 million YLD	Cancers 0.5% of total YLD >0.1 million YLD		Diabetes & CKD 4.9% of total YLD >1 million YLD		Digestive 2.5% of total YLD >0.5 million YLD		
Chronic Resp. 4.5% of total YLD >0.9 million YLD	Neurological 8.8% of total YLD >1.7 million YLD		Mental disorder 14.4% of total YLD >2.9 million YLD		Musculoskeletal: 12.7% Other NCD: 6.2% Sense organ: 6.1% Skin: 5.6% Substance use: 3.3%		



Challenge NCD



51 million adults with high BP



10.7 - 29 million diabetic cases

2.3 million IHD cases



33 million Cirrhosis & Ch. liver cases

1.3 million Stroke cases



CANCER 840,000 Cancer cases



NCDS ACR[®]SS THE SDGS A CALL FOR AN INTEGRATED APPROACH

The inclusion of NCDs in the 2030 Agenda reaffirms that NCDs are a priority for sustainable development. It is now imperative that governments act on their commitments on NCDs and health more broadly.

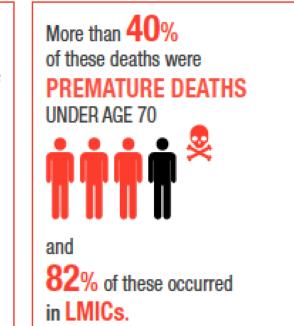
NCDs

 including cardiovascular disease, cancer, diabetes, chronic respiratory disease, and mental and neurological disorders –

account for



of GLOBAL MORTALITY, and are the leading cause of death and disability worldwide.



Mortality among people in their most productive years has significant IMPACT ON ECONOMIC development and can undermine progress.

> The projected cumulative lost output due to NCDs in LMICs for 2011-2025 is 7 trillion USD

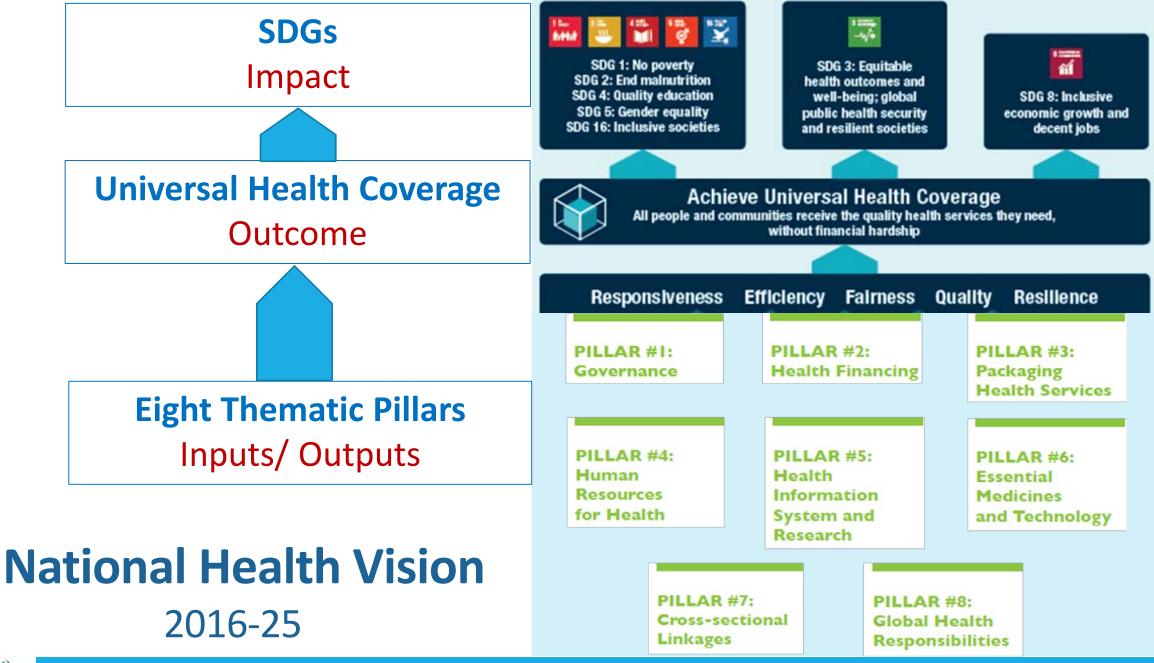


This far outweighs the estimated **11.2** billion USD cost of implementing a set of high-impact, cost-effective interventions to reduce the burden of NCDs.



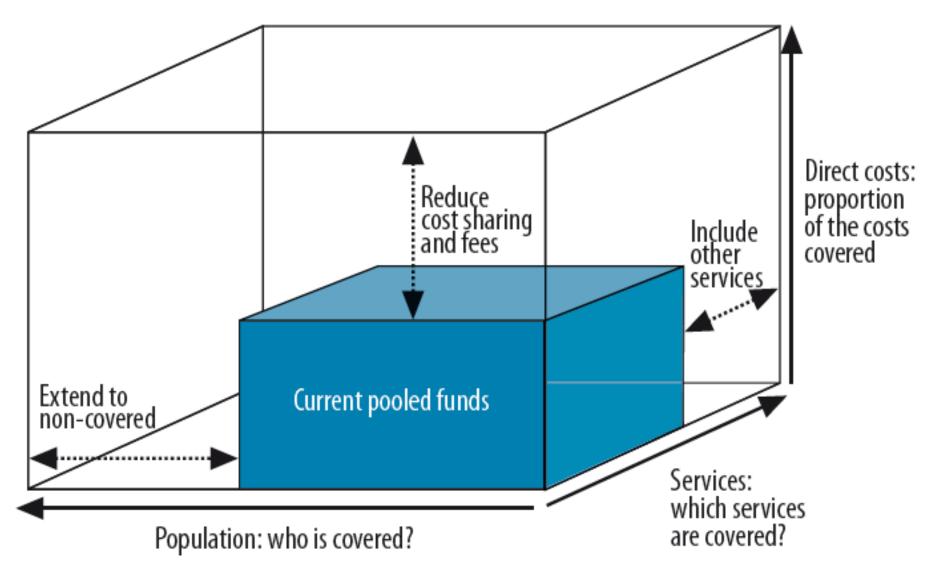
		Baseline		Data	Target 2030	
	Indicators		2015	sources	Pakistan	Global
or NC	3.4.1 Probability of dying from cardiovascular disease, cancer, diabetes, chronic respiratory disease between age 30 and 70 (%)	24.8	24.7	Global Health Estimates	20	17
for	3.4.2 Suicide mortality rate (per 100,000 population)	2.6	2.1	PDHS, WHO, PDS	1.6	<u><</u> 1
tors	3.5.1 Coverage of Prevention/ treatment of substance abuse	-	10	UNODC, WHO	35	>80
ica	3.5.2 Total alcohol per capita (≥ 15 years) consumption (litres of pure alcohol)	-	0.2	WHO GISAH	<u><</u> 0.2	-
ndi	3.6.1 Road traffic mortality rate (per 100 000 population)	15	14.2	Global Health Estimates	<13	8
	3.8.1 Universal Health Coverage index (%)	-	40	WHO, WB	65	>80
SDO	3.9.1 Mortality rate attributed to household and ambient air pollution (per 100,000 population)	-	88.8	Global Health Observatory	_	-
	3.a Age-standardized prevalence of tobacco smoking among persons 15 years and older (% in males)	-	36.7	WHO	10	-







Universal Health Coverage Framework





Measuring UHC 4 Tracer Areas and 16 Tracer Indicators

a: **RMNCH**

- Family Planning;
- Antenatal + 4 visits;
- Full Child Immunization;
- Health Seeking behaviours for child Illness (Pneumonia)

c: Non-communicable diseases

- Blood Pressure;
- Diabetes Mellitus;
- Cervical cancer screening;
- Tobacco Control

b: Communicable diseases

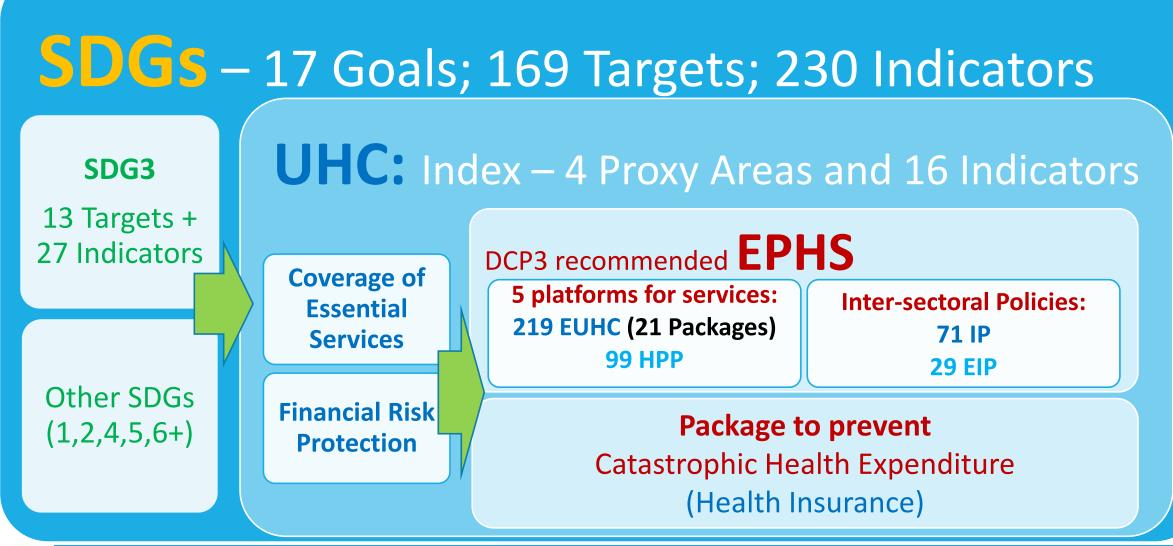
- Tuberculosis Effective Treatment;
- HIV Retroviral Treatment;
- Insecticide Treated Nets Coverage for Malaria;
- Adequate Safe Sanitation

d: Service Capacity and Access

- Hospital beds;
- Health Workers' density;
- Access to essential Medicines, Vaccines and Commodities;
- Compliance with IHR



From SDGs to Package of Services





Background of DCP3

1993 World Development Report

 Disease Control Priorities in Developing Countries, Second Edition 2006 (DCP2)

 Disease Control Priorities, 3rd Edition 2015-2018 (DCP3)







DCP-III Interventions

219 EUHC Services (99 ннр) provided at 5 platforms

- 62 at the community level
- 66 at health centers
- 56 at first-level hospitals
- 20 at referral and specialized hospitals
- 15 interventions at the population level

A package of 71 Inter-sectoral Policies (29 EIP)



DCP-III Interventions

Age-related cluster (packages 1-5)

- 1 Maternal and newborn health
- 2 Child health
- 3 School-age health and development
- 4 Adolescent health and development
- 5 Reproductive health and contraception

Infectious diseases cluster (packages 6–10)

- 6 HIV and sexually transmitted infections
- 7 Tuberculosis
- 8 Malaria and adult febrile illness

IHR

9 Neglected tropical diseases10 Pandemic and emergency preparedness





Developments in Pakistan

STRENGTHS:

- ✓ Lessons learning
- Objective was efficiency & effectiveness in PHC services

WEAKNESSES:

- x Not comprehensive to cover five platforms
- x NCD, Health services cluster and Inter-sectoral Policies not prioritized
- x Limited to public sector

- All five platforms present in Pakistan
- EPHS priority in provincial health strategic plans/ NHV
- EPHS for PHC services developed in 2012-13 (Punjab, KP and recently in Sindh) + service delivery standards, staffing, medicines, equipment and costing.
- Different modalities explored to deliver EPHS through:
 - Public sector
 - District government
 - Private sector/ NGOs
- Package for Secondary healthcare developed in Punjab; not finalized in KP
- Establishment of Healthcare Commissions and Authority for implementation of standards in the health services (both in public & private health sector)

Recent Developments

- An international meeting on DCP3 held in Pakistan in August 2018 attended by Morocco, Lebanon, Iran, Jordan, Pakistan, WHO EMRO, University of Washington and other stakeholders including provinces
- DCP3 secretariat agreed to the proposal Pakistan to be the first country in the World to adopt DCP3 recommendations
- M/o NHSR&C to develop generic EPHS for Pakistan through a consultative process with provincial / area DOHs and other stakeholders
- To be adopted by provinces / areas later on; to be fully implemented in Islamabad Capital Territory
- Consultations held to revise Health Insurance Package of services + Surgery



Actions for developing EPHS based on DCP3

- Criteria for selection of DCP3 recommended interventions
 - Relevance to Burden of Disease for Pakistan (2017)
 - Cost effectiveness (Cost/ DALY)
 - Feasibility in the context of Pakistan
 - Additional services to be included in the context of Pakistan
- Consultations to review of current services based on DCP3 recommendations and to prioritize interventions <u>under 5 platforms</u> and <u>Inter-sectoral policies</u>
 both for public and private health sector



Actions for developing EPHS based on DCP3

- For provision of generic EPHS, define:
 - Minimum HRH requirement and skill set required (In-service and pre-service training plans)
 - Essential drug, equipment and supplies list
 - Adjustment required in Health information system, and supervision mechanism & protocols
 - System support: including referral system, drug supply management, communication interventions, WASH services in health facilities, infection control and patient safety measures, infrastructure/ repair & maintenance etc.
 - Coordination mechanism and protocols
- Define quality standards for services and system (healthcare commission)
- Costing
- Approach and plan to roll out EPHS Family Practice Approach in 12 districts



Cost for Delivering UHC

The requirement for achieving Universal Health Coverage (UHC) is of US\$271 per person per year (range 74–984) across country contexts.

13th General Programme of Work WHA; Jan 2018: 1 Billion more people benefitting from UHC Per Capita Total Health Expenditure in Pakistan: **US\$ 45**

Per Capita Public Sector: US\$15.3



HEALTH FINANCING STARTEGY



SOURCE: Lancet; Karin Stenberg, Odd Hanssen, Tessa Tan-Torres Edejer et el, Lancet Global Health 2017; Financing transformative health systems towards achievement of the health Sustainable Development Goals: a model for projected resource needs in 67 low-income and middle-income countries AND National Health Accounts 2015-16

GROUP WORK 'NCD EPHS'...



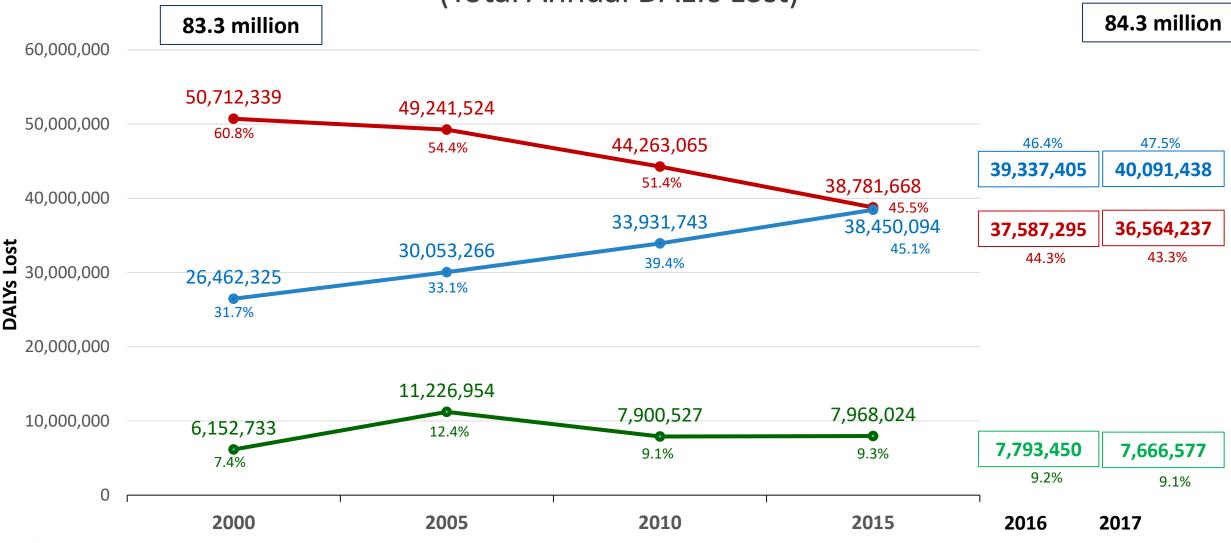






The growing burden of diseases

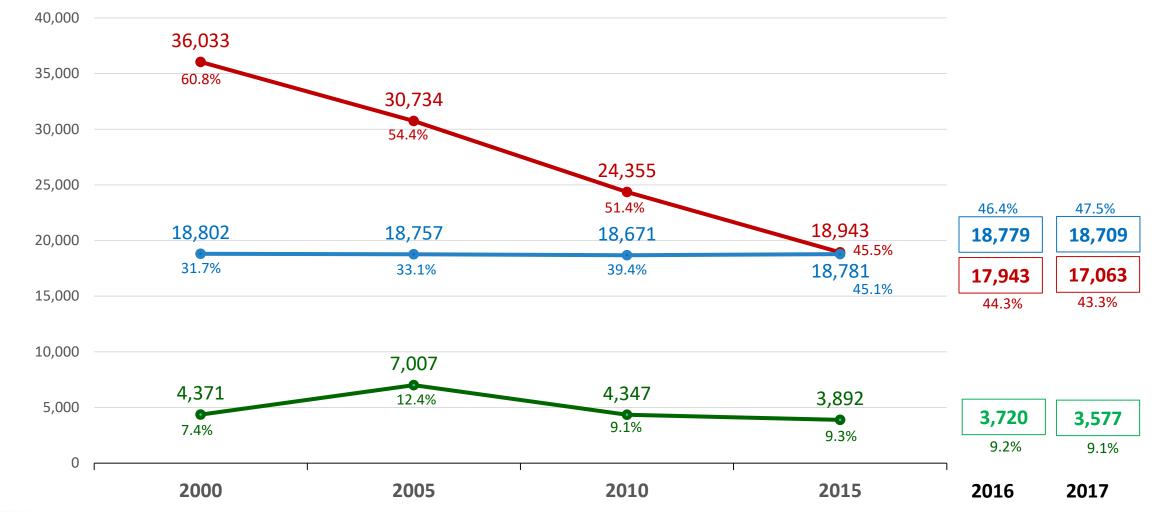
(Total Annual DALYs Lost)





The shifting of burden of disease

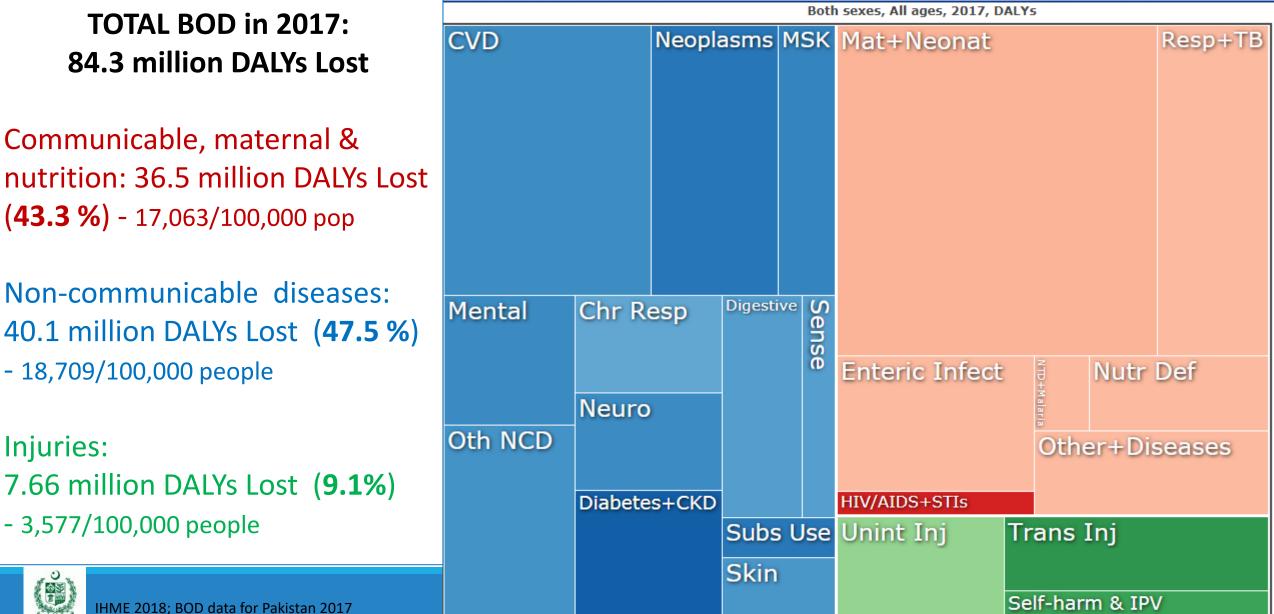
(DALYs lost per 100,000 population)





DALYs Lost per 100,000 people

Burden of Disease in Pakistan



IHME 2018; BOD data for Pakistan 2017

Comparison of NCD BOD in 2017

COUNTRY	NCD BOD Rate DALYs Lost / 100,000 pop	Total DALYs Lost (million)	% of Total DALYs
Pakistan	18,709	40.1	47.5%
India	19,497	269.1	55.9%
Iran	18,873	15.5	76.1%
Bangladesh	18,287	28.7	62.4%
Egypt	20,511	19.7	73.0%
China	21,734	307	82.6%
Germany	27,285	22.7	88.5%

