

## **National Health Accounts**

# Pakistan 2009-10

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### Foreword

This report provides the third round of National Health Accounts (NHA) for Pakistan, compiled by the Pakistan Bureau of Statistics (PBS). Its reference year is 2009-10. The second round was released in 2012 for 2007-08. The fourth round with reference year 2011-12 is under preparation.

The PBS is responsible for the collection, compilation, descriptive analysis, publication and data dissemination of all sorts of national statistics through its regular surveys / censuses and through secondary data collected from various sources. PBS has taken initiative to collect data from all sources available in the country including Accountant General Pakistan Revenues (AGPR), its regional sub-offices, and provincial Accountant Generals. Also Securities & Exchange Commission of Pakistan (SECP), Economic Affairs Division, provincial Employees Social Security Institutions, Military Accountant General, Ministry of Religious Affairs, Zakat and Ushr and provincial Finance Departments have provided the requisite data for this report. I am thankful to them as well as to other stakeholders for facilitating supply of data to bring out this report.

For the third round, the health expenditures of autonomous bodies and corporations working under the administrative jurisdiction of federal and provincial government have been estimated on the basis of actual data obtained from the census of autonomous bodies and corporations conducted in the second round of NHA 2007-08. In its third round, NHA has included the actual results of two special surveys: (i) Out of Pocket health expenditures survey (ii) The private health care providers have been covered by a census of the big hospitals and a sample survey of the small providers. The aforementioned surveys & census were conducted in the second round for FY 2009-10.

It is hoped that this report will be useful for researchers, policymakers and other users of data on financing health services. It does not only provide the results of NHA as such but also the results of the surveys carried out especially for NHA.

PBS offers to provide more details of the results as given in this report if required by researchers and planners or any other kind of user. Hopefully, in the fourth round, the classifications for compiling country health accounts would be revised as per recommended global standard document "System of Health Accounts (SHA) version 2.0".

Suggestions for improvement of the report will be appreciated.

Asif Bajwa Chief Statistician Pakistan Bureau of Statistics Islamabad July, 2013

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### Preface

National Health Accounts (NHA) is a framework for estimating the total healthcare expenditures (both public and private) at national level. NHA methodology actually tracks the flow of funds through the healthcare sector by compiling the following four selected dimensions. (i) Financing sources (ii) Financing agents (iii) Health care providers & (iv) Health care functions.

NHA is a standard set of matrices, or tables, that presents various aspects of a nation's health expenditures and deals with the questions like, (i) who is financing health care in a particular country?; (ii) how much do they spend? and (iii) on what type of services? This globally accepted tool based upon the expenditure review approach, highlights the "financial health" of national health systems in respective country.

In the first round of NHA for the reference period 2005-06, two of the dimensions namely financing sources & financing agents were covered on the basis of available data. While in the second round of NHA 2007-08, the third dimension on health care providers has also been developed by including the retropolated, from 2009-10 to 2007-08, results of the census/survey of private health care providers. NHA second round estimates have also been improved by incorporating the retropolated, from 2009-10 to 2007-08, results of private households' out-of pocket (OOP) survey on health spending. The census of autonomous bodies and corporations owned by federal or provincial government have also been conducted in order to include them in their capacities as employers and as producers of health services in own facilities for the health care of its employees.

For the third round, the health expenditures of autonomous bodies and corporations working under the administrative jurisdiction of federal and provincial governments have been estimated on the basis of actual data obtained from the census of autonomous bodies and corporations conducted in the second round of NHA 2007-08. In its third round, NHA has included the actual results of two special surveys: (i) Out of Pocket health expenditures survey (ii) The private health care providers have been covered by a census for the big hospitals and a sample survey for the small providers. The aforementioned surveys & census were conducted in the second round for FY 2009-10.

I am thankful to experts from German International Cooperation (GIZ) for valuable resources and inputs for producing such a comprehensive report. I appreciate the diligent efforts of the NHA- team including Mr. Shahid Mahmood Butt, Mr. Ihsan-ul-Haq, Ms. Madiha Amjad, Irfan Ali Soomro, Mr. Saqib Majeed & Mr. M. Ilyas for the timely compilation of NHA report 2009-10. It is hoped that this report will be useful for researchers, policymakers and other users of data on financing health services.

> Arif Mahmood Cheema Member, National Accounts, Pakistan Bureau of Statistics Islamabad July, 2013

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## List of abbreviations

AGPR	Accountant General Pakistan Revenues
BHUs	Basic Health Units
CoA	Chart of Accounts
CMHs	Combined Military Hospitals
DAOs	District Account Offices
DHQ	District Headquarter Hospital
EAD	Economic Affairs Division
ESSI	Employment Social Security Institution
FBR	Federal Board of Revenue
FY	Financial Year
GDP	Gross Domestic Product
GIZ	Deutsche Gesellschaft für Internationale Zusammenarbeit, German Intern. Cooperation
HIES	Household Integrated Economic Survey
ICHA	International Classification of Health Accounts
ILO	International Labour Organization
ICT	Islamabad Capital Territory
IMF	International Monetary Fund
MCHC	Maternal and Child Health Centre
MoF	Ministry of Finance
MoPW	Ministry of Population Welfare
MoH	Ministry of Health
NGOs	Non-Government Organizations
NHA	National Health Accounts
NLHI	National Level Health Institutions
NPOs	Non-profit Organizations (synonymous with non-profit institutions)
NSK	Not Specified by Kind
OECD	Organization for Economic Co-operation and Development
OOP	Out Of Pocket
PAOs	Provincial Accounts Offices
PBS	Pakistan Bureau of Statistics
PIFRA	Project for Improvement in Financial Reporting and Auditing
PSLM	Pakistan Social and Living Standards Measurement Survey
RoW	Rest of the World
SECP	Securities & Exchange Commission of Pakistan
SHA	System of Health Accounts
ТВ	Tuberculosis
WHO	World Health Organisation

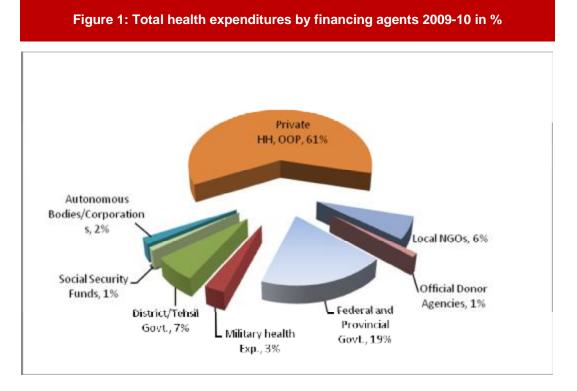
### **Executive Summary**

National Health Accounts (NHA) is a macro-economic accounting framework for revealing a country's aggregated expenditures on health. The compilation for Pakistan obeys international standards set by WHO and OECD, yet it is tailor made for the country as far as possible. This report presents the results for fiscal year 2009-10 which is the third round of such a compilation. The first two rounds were done for fiscal years 2005-06 & 2007-08.

Total health expenditure in Pakistan in the FY 2009-10 is estimated as Rs. 448 billion. This shows an increase of Rs.102 billion over the FY 2007-08, which is a 29% increase in nominal terms as it includes inflation of health care goods and services. In real terms this is equivalent to an increase of 8 % from 2007-08 to 2009-10. It means that if the figures for 2007-08 are inflated by the rate recorded for "Health" in the Consumer Price Index (2009-10 over 2007-08) and population growths (2008-9 to 2009-10) then the change of 2009-10 over 2007-08 (at the prices & population of 2009-10) comes down to 8%.

The results for FY 2009-10 show that out of total health expenditure in Pakistan, 29 % are funded ("financing sources") by government. Out of total government health expenditures, 41% are funded by the federal government where out of 100 Rupees 74 accrue from its civilian part and 26 from its military setup. Over 68 % of the health expenditures are funded through private sector out of which 89% is out of pocket (OOP) health expenditures by private households.

For "financing agents" it is found that out of total health expenditures in Pakistan, 32 % are made by general government. The private expenditures constitute 67 % of total health expenditures in Pakistan, out of which 90 % are households' out-of-pocket (OOP) health expenditures. Development partners/ donors organizations have 1.14 % share in total health expenditures. Figure1 shows the share of financing agents in total health expenditures of Pakistan for FY 2009-10.



The annual per capita health expenditures for Pakistan as per NHA 2009-10 are (Rs. 2,611) 31.2 US\$. For comparison, the respective figures reported to WHO by India and Bangladesh are 51.0 US\$ and 25.0 US\$, respectively. The ratios of health expenditures according to NHA over GDP 2009-10 are 3.0 % while public sector health expenditures according to NHA over government expenditures are 9.2 %. The private sector health expenditures according to NHA over total private expenditures are 2.5 %.

For the complete coverage and reliable estimates of public and private sectors health expenditure, PBS, in the second round of NHA (2007-08), had carried out the following censuses and surveys:

- Census of private health care providers (only hospitals with 50 beds and more) 2009-10
- Sample survey of private health care providers (including hospitals with less than 50 beds and rest of other health care providers) 2009-10
- Sample survey on OOP expenditures of private households 2009-10
- Census of autonomous bodies/corporations 2007-08

In the second round of NHA 2007-08, the results of OOP survey, census of big hospitals and a survey of the rest of health care providers for FY 2009-10 had been retropolated in order to arrive at the respective estimates for the year 2007-08. In its third round, NHA has included the actual results of OOP survey and census/survey of private health care providers for FY 2009-10. The big advantage of including data of the providers is to authenticate or reconcile data from the supply side of health related goods and services with the other information based on the demand side (private households, government and other financial agents).

Despite of its name "National" Health Accounts, NHA also provides figures for the four provinces Punjab, Sindh, Khyber-Pakhtunkhwa and Balochistan. It is not fully comprehensive as the total health expenditures for the provinces do not sum up to the national total. For empirical reasons only 378.0 billion Rs. of Pakistan's total health expenditures could be allocated to the provinces ("regionalized"). Overall, the results for the provinces in Chapter 3 of this report show that the shares of financing agents of the health expenditures are relatively heterogeneous between different provinces.

NHA Pakistan estimates for the year 2009-10 are based on the concepts, accounting framework and guidelines of WHO. The compiled accounts are also internationally comparable, as NHA Pakistan has adopted the International Classification of Health Accounts (ICHA) of WHO. The annexure provide abbreviated versions.



# **1** Introduction



### 1.1 Scope, purpose and limits of health accounts

The definition recommended for developing countries by WHO for health expenditures is as follows:

"National health expenditure encompasses all expenditures for activities whose primary purpose is to restore, improve, and maintain health for the nation and for individuals during a defined period of time"<sup>1</sup>. Health expenditures in the context of NHA as well as in the context of this report stand for inclusion of the health care functions under classification codes HC.1 to HC.7 plus capital formation by health care providers (HC.R.1). For details see Annexure 9 of this report.

NHA Pakistan comprises of the health expenditures for the four provinces (Punjab, Sindh, Khyber-Pakhtunkhwa and Baluchistan) and federal health expenditures, which amounts to the national health expenditures. NHA Pakistan shows health expenditure for and of Pakistani citizens and residents as well as spending by external agencies, like bilateral donor agencies and UN offices, on inputs to health care in Pakistan. This means that NHA Pakistan:

#### Includes:

Health expenditures by citizens and residents temporarily abroad

- Donor spending (both cash and in-kind) whose primary purpose is the production of health and health-related goods and services in Pakistan Excludes:
- Health spending by foreign nationals on health care in Pakistan (as NHA treats this as export of health care services and does not include in NHA estimation)
- Donor spending on the planning and administration of such health care assistance

It is recommended that NHA should use the accrual method in accounting for expenditures, not the cash method. This would mean that expenditures are related to the time period during which the actual activity takes place. The accrual method uses the expenditures, which are attributed to the time period during which the economic value was created whereas the cash method refers to the expenditures, which are registered when the actual cash disbursements take place. However, the data situation in Pakistan does not yet allow for application of the accrual method. For the time being the figures presented for Pakistan's NHA are cash-based.

The first two rounds of NHA for Pakistan were dedicated to FYs 2005-06 & 2007-08. According to advice from the WHO the scope of tables for the first round was limited. While in the second & third rounds of NHA, besides the updated information on previous tables it contains information on the dimension of health care providers as well. More comprehensive NHA will be available in the fourth round as it is a cumbersome task to collect data on all the required entities, though the preliminary and partial NHA reports would be published time to time as per availability of data. It is hoped that NHA in Pakistan would be a milestone towards the evidence based policy making in health sector.

The primary aim of developing NHA framework for Pakistan is to ...

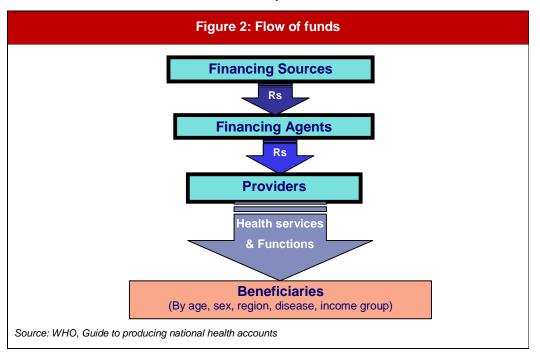
- To describe the flow of funds, sources and uses of funds in the health care system,
- To map out the profile of the health care system,
- To build and enhance sustainable capacity for NHA in PBS.

<sup>&</sup>lt;sup>1</sup> World Health Organization, 2003, Guide to Producing National Health Accounts: with special applications for low-income and middle-income countries, pp. 20.

One of the objectives of NHA is to give the comprehensive picture of health care spending in the country and to show the flow of funds dedicated to health expenditure in an overall, comprehensive and self-checking accounting framework of internationally agreed standards (see Figure 2).

NHA is a standard set of matrices, or tables, that presents various aspects of a nation's health expenditures and deals with the questions like, (i) who is financing health care in a particular country?; (ii) how much do they spend? and (iii) on what type of services? This globally accepted tool based upon the expenditure review approach, highlights the "financial health" of national health systems in respective country<sup>2</sup>.

NHA identifies and tracks health sector financing sources and uses both, public and private, to support developing the health policy and to monitor it. NHA on the one side shows the flow of funds from financing sources to financing agents to providers and on the other side the function on which the expenditure were made and also the beneficiaries of those expenditures (although it requires some further information). In that way, NHA estimates total health expenditures in the country, identifies all the important actors in the health sector and their respective contribution in the health sector of the country.



NHA is designed particularly as a tool for improving the capacity of health sector planners to manage their health systems. The NHA methodology organizes and presents health spending information in a manner that even those who do not have a background in economics or statistics can easily understand and interpret the results. It allows policy makers to understand how resources are used in a health system and to assess the efficiency of resource used (if NHA is combined with other data sets) and to evaluate impact of health reforms on different stake holders i.e. who are the beneficiaries of health expenditures, poor or rich?

NHA have a vital role in devising a better informed and more participatory policy and health sector reforms and developing a more equitable and sustainable health financing system

<sup>&</sup>lt;sup>2</sup>World Health Organization, 2003

in the country. Figure 3 shows how NHA can be linked to the health policy questions. NHA also allows for comparisons of health expenditures at different points in time as well as the cross country comparisons where data is available.

Figure 3: NHA links to health policy				
Health policy decision areas	Flow of resources in health financing	Some key policy questions		
Resource mobilization / financing strategies	Financing Sources	How are resources mobilized? Who pays? Who finances? Under what scheme?		
Pooling arrangements Cost recovery regulation of payers	Financing Agents	How are resources managed? What is the financing structure? What pooling arrangements? What payment / purchasing arrangements?		
Financial incentives Subsidies Resource Allocation Provider regulation	Inputs, Providers, Functions	Who provides what services? Under what financing arrange- ments? With what inputs?		
Targeting redistributive pol- icies	Important distributions e.g. age, gender, location, social status	Who benefits? Who receives what? How are resources distributed?		

Source: National Health Accounts Trainer Manual 2004

*Financing Sources* are institutions or entities that provide the funds used in the system by Financing Agents. In Pakistan, the Financing Sources would typically include the Federal Government, Provincial Governments, donors, NGOs, insurance companies, and households.

*Financing Agents* include institutions or entities that channel the funds provided by Financing Sources and use those funds to pay for, or purchase, the activities inside the health accounts boundary. In Pakistan, these include the Ministry of Health (It can be replaced with Ministry of Interprovincial Coordination), Ministry of Defense, autonomous bodies, NGOs, and households etc.

*Providers* include entities that receive money in exchange for or in anticipation of producing the activities inside the health accounts boundary. Examples of providers are hospitals, clinics, Community Health Centers in the public and private sectors, pharmacies, private practitioners, traditional health care providers etc.

*Functions* are the types of goods and services provided and activities performed within the health accounts boundary. It includes services of curative care (inpatient and outpatient), medical goods (e.g. pharmaceuticals, and appliances), prevention and public health services, health administration and health insurance, etc.

Presently there are different methodologies in practice around the world to estimate the health accounts, most common are (i) System of Health Accounts (SHA) developed and used by OECD and some other countries; (ii) National Health Accounts (NHA) which are based on SHA

but with more flexibility regarding classifications and more appropriate for developing countries because it allows to add the traditional care providers in the system. In this regard, WHO has published "Guide to Producing National Health Accounts: with special application for low income and middle income countries". More recently WHO, OECD and EUROSTAT, jointly worked on revision of SHA and came up with a single coherent document (SHA version 2.0) which is to be followed globally for conducting health accounts. SHA version 2.0 has now been released and available on the websites of WHO, OECD and EUROSTAT.

The main purposes of the System of Health Accounts are the provision of internationally comparable health accounts, the definition of internationally harmonized boundaries, the presentation of tables for the analysis of flows of financing and the monitoring of economic consequences of health care reform and health care policy.

As suggested, the NHA work in Pakistan has been done under the guidelines of WHO. Also, the International Classifications of Health Accounts (ICHA) has been used, tailor-made to include the categories relevant to Pakistan. These classifications assign a unique code to different actors in health sector and classify each of them in sub- classification codes, allowing for a systematic tracking of health expenditures in the economy. Once these classifications are available, one can have many possible combinations/ cross tables of these categories i.e. financing sources by financing agents, financing sources by providers, providers by functions. Each table would tell that (i) How much has been spent by each actor and (ii) Where exactly their funds have been transferred to.

In this report as well as in NHA-related literature the terms "health expenditures" and "health care expenditures" are used almost as synonyms. "Health expenditures" is the broader term covering administrative and other services while "health care expenditures" usually is used for the medical and curative part of these services in a narrower sense.

Despite of the fact that NHA gives very detailed and comprehensive information on health expenditures and provide a basis for evidence based health policy, there are some limitations of NHA as well. Mainly NHA cannot provide information on efficiency and cost effective ness. The following table gives the insight to strengths and limitations of NHA.

Table 1: Limitations of NHA				
Question	Does NHA address it?			
What is total spending on health?	Yes			
Who is spending it?	Yes			
What is being spent on?	Yes			
What are the sources of this expenditure?	Yes			
How does this compare to other countries?	Yes, if other country has NHA			
What are the main trends?	Yes, if there is time series			
How efficiently are the funds being allocated and spent?	No			
How to improve the financing of health services by:				
a) increasing the resources available?	No			
b) using existing resources more efficiently?	No			
Are subsidies or public transfers effectively targeted to poor and vulnerable groups?	Generally no			

Source: Mark Pearson, National Health Accounts: What Are They and How Can We Use Them? Briefing Paper, A paper produced by the Department for International Development Resource Centre for Health Sector Reform, 2000.

To build and enhance capacity within PBS, NHA Section has conducted different trainings on NHA as well. The objective is to make PBS capable of conducting NHA studies at regular intervals (usually every two/three years) without external technical assistance. Institutionalization of NHA is facilitated by investment in the development of data tracking and reporting systems, accounting systems, and associated activities such as the various surveys required by the NHA study. This investment not only produces required financial data but also improves country capacity in health sector analysis, evidence-based policymaking as well as skills in designing and conducting various types of surveys.

### 1.2 Steps taken to develop NHA in Pakistan

The health system in Pakistan is multifarious. To understand the places and roles of different actors, the health system has been reviewed and mapping has been done so that it can help in specifying classifications and data collection.

Relevant literature on NHA and studies done specially focusing on the South Asian experiences were reviewed because the health sector and data situation is very similar in those countries as in Pakistan.

National Health Accounts section of PBS assessed which data is available at federal level and in the provinces, i.e.

- Government entities including social insurance, military and cantonments etc.
- Private health insurance
- Autonomous bodies and firms and employers providing health care to their employees
- Households out of pocket expenditures
- Local and international non-governmental organizations
- Donors / development partners

The data has been collected from the following sources

- Federal government, provincial governments' and district governments' data from respective Accountant General Pakistan Revenues (AGPR) and Accountant General (AG) offices
- Military health expenditures data from Military Accountant General (MAG) office
- Cantonment boards health expenditures data from Military Lands and Cantonment Department
- Insurance companies (private health insurance) data from Securities and Exchange Commission of Pakistan (SECP)
- Donor's health expenditures data from Economic Affairs Division (EAD) of Ministry of Economic Affairs and Statistics
- Autonomous Bodies/Corporations (ABs/C) health expenditures data obtained from the Census of Autonomous bodies/Corporations
- Households' OOP health expenditures data obtained from a special survey
- Health expenditures by the private health care providers was estimated by a special Private Health Care provider survey
- Social security health expenditures data from Employees Social Security Institutions (ESSI) and Ministry of Labour
- Zakat and Bait-ul- Mal data from Ministry of Zakat & Ushr and Pakistan Bait-ul-Mal (PBM)

All data obtained and analyzed is classified according to financing sources, financing agents and health care providers. After that, the information was allocated to matrices to trace the original sources. Errors, conflicts and missing data were resolved and then graphs and tables

were prepared. For the first round, only the matrix of financing sources by financing agents was developed. The second round also includes the matrix of health care providers by financing agent.

Workshops/ conferences are part of the advocacy efforts needed to promote, communicate, build demand, and to sell the NHA activity to all major Pakistani stakeholders (government and private) and to the media. It is also meant to address health policy issues or questions that NHA can shed light on. In this regard, PBS has conducted training courses on NHA and invited participants from all over the Pakistan and different stakeholders.



# 2 Results of NHA at National Lev-

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#### 2.1 Total health expenditure

Total health expenditure is obtained by adding up the two aggregates of "current health expenditure and capital health expenditure (often called development expenditure).While, current health expenditure includes only direct health expenditures, and excludes health related expenditures on training, research, environmental health etc. Therefore, expenditures on medical education, health-related professional training & research are not included in the Total health expenditure. This definitional framework is important, when it comes to cross country comparisons.

Total health expenditure in Pakistan in the FY 2009-10 is estimated as Rs. 448 billion (Table 2-4). This shows an increase of Rs.102 billion over the FY 2007-08, which is a 29% increase in nominal terms as it includes inflation of health care goods and services. In real terms this is equivalent to an increase of 8 % from 2007-08 to 2009-10. It means that if the figures for 2007-08 are inflated by the rate recorded for "Health" in the Consumer Price Index (2009-10 over 2007-08)<sup>3</sup> and population growths (2008-9 to 2009-10)<sup>4</sup> then the change of 2009-10 over 2007-08 (at the prices & population of 2009-10) comes down to 8 % (see columns 3,4 and 6 in Table 2).

Table 2: Total health expenditures 2007-08 and 2009-10 by financing agents (million Rs.)					
	2007-08			Change in %	
	Current prices (2007-08)	Prices of 2009-10	2009-10	Current prices	Prices of 2009-10
1	2	3	4	5	6
Federal Government	28,769	34,304	52,470	82.38	52.95
Provincial Government	27,244	32,486	47,180	73.18	45.23
District/Tehsil Government	23,316	27,802	29,572	26.83	6.37
Social Security Funds	3,104	3,701	4,367	40.69	17.99
Autonomous Bodies/Corporation	6,843	8,160	8,277	20.96	1.44
Private health insurance	1,453	1,733	1,944	33.79	12.20
Private households' OOP payment	227,316	271,053	271,757	19.55	0.26
Local NGO's	24,261	28,929	27,738	14.33	-4.12
Official donor agencies	4,388	5,232	5,098	16.18	-2.57
Total health expenditure	346,694	413,400	448,403	29.34	8.47

<sup>&</sup>lt;sup>3</sup> CPI (Health) 2009-10 over 2007-08 was 14.33 %.

<sup>&</sup>lt;sup>4</sup> Population growth for 2008-09 and 2009-10 were 2.14 and 2.11 respectively.

### 2.2 Financing sources

The health expenditures shown by financing sources include some functions which for certain analysis are needed under a separate heading. One requirement may be to have current and capital health expenditures separately as the capital expenditures (often called "development expenditures") will have a positive impact on health of the country's population in subsequent years and not yet in the current period the figures are collected for. The health expenditures represented by different financing sources in Table 3 have further disaggregated into current and development expenditures where empirically the break up was possible. This break up was not possible for the autonomous bodies/corporation and private sector financing sources. The total of depicted development expenditures is 47,335 million Rs.

Table 3 shows the breakdown by financing sources up to the maximum level of disaggregation. Up- to the three digits the classification has been maintained according to the International Classification of Health Accounts, next levels of disaggregation are adopted according to the Pakistan specific situation and policy relevance.

Table 3	Current and develo	opment ł	nealth e	xpendi	ture by	financi	ng sour	ces (mi	illion Rs.	)	
:	Source		2005-06		2007-08				2009-10		
		Current Exp.	Devel- opment Exp.	Total	Current Exp.	Devel- opment Exp.	Total	Current Exp.	Devel- opment Exp.	Total	
FS.1	Public Funds	43,781	18,158	61,939	64,381	21,791	86,172	90,239	47,260	137,499	
FS.1.1	Government Funds	38,406	18,158	56,564	57,538	21,791	79,329	81,962	47,260	129,222	
FS.1.1.1	Federal Government	12,143	11,597	23,740	14,204	14,565	28,769	20,575	31,895	52,470	
FS.1.1.1.1	Ministry of Finance	12,143	11,597	23,740	14,204	14,565	28,769	20,575	31,895	52,470	
FS.1.1.2	Provincial Government	13,093	5,759	18,852	20,580	6,664	27,244	33,716	13,464	47,180	
FS.1.1.2.1	Punjab Dept of Finance	6,671	2,309	8,980	10,787	2,369	13,156	17,891	4,135	22,026	
FS.1.1.2.2	Sindh Dept of Finance	3,508	1,490	4,998	5,714	671	6,385	9,702	4,813	14,515	
FS.1.1.2.3	KP Dept of Finance*	1,823	1,619	3,442	2,625	3,402	6,027	4,231	3,877	8,108	
FS.1.1.2.4	Baluchistan Dept of Finance	1,091	341	1,432	1,454	222	1,676	1,892	639	2,531	
FS.1.1.3	District/ Tehsil Bodies	13,170	802	13,972	22,754	562	23,316	27,671	1,901	29,572	
FS.1.1.3.1	District Government	13,011	794	13,805	22,560	550	23,110	27,461	1,886	29,347	
FS.1.1.3.2	Cantonment Boards	159	8	167	194	12	206	210	15	225	
FS.1.2	Autonomous Bodies/Corporations	5,375	-	5,375	6,843	-	6,843	8,277	-	8,277	
FS.1.2.1	Federal Govt.	4,830	-	4,830	6,110	-	6,110	7,404	-	7,404	
FS.1.2.2	Provincial Govt.	545	-	545	733	-	733	873	-	873	
FS.2	Private Funds	217,294	250	217,544	256,018	116	256,134	305,731	75	305,806	
FS.2.1	Employer Funds	2,506	250	2,756	3,649	116	3,765	4,978	75	5,053	
FS.2.2	Household Funds	193,568	-	193,568	228,108	-	228,108	273,015	-	273,015	
FS.2.3	Local/National NGO's	21,220	-	21,220	24,261	-	24,261	27,738	-	27,738	
FS.3	Rest of the World Funds	3,565	-	3,565	4,388	-	4,388	5,098	-	5,098	
FS.3.1	Official Donor Agencies	3,565	-	3,565	4,388	-	4,388	5,098	-	5,098	
	Total Health Expenditure	264,640	18,408	283,048	324,787	21,907	346,694	401,068	47,335	448,403	

\*KP also includes the health expenditures of FATA

Financing sources have three major categories, namely public funds, private funds and rest of the world funds. In case of public funds, at federal level the Ministry of Finance is the source of funding which provides the money to civil government and military part. For provincial government, the provincial finance departments provide the money. And in case of local bodies/ district government, there are district government and cantonment boards that spend on health in their respective jurisdiction areas. The last category of the public funds is Autonomous Bodies/ Corporations working under federal and provincial governments. They spend money on the health care of their employees (reimbursements) as well as on own health care facilities.

FS.2 shows all the private entities which are providing funds for health care. FS.2 is further categorized in employer funds and household funds. The household funds are net of reimbursements from employers and insurance companies (claims) but include insurance premiums. Employers are providing funds in three ways. They are contributing through occupancy health care (which is neglected in NHA due to lack of data), through social security (managed by ESSIs) or through health insurance of their employees (group insurance).However, insurance figure here is a lump sum which also includes the premiums paid by individual households. Disaggregated data is not available, but according to experts' opinion group insurance/ insurance through employer has the major share in insurance expenditures. The lump sum figure has fully been put under employers' funds.

In Pakistan the insurance companies are not a source of financing. They are agents, instead, and to a certain extent (premiums minus claims) they are provider of (administrative) health services as well.

Household funds mainly comprise of OOP health expenditures, Bait-ul-Mal and Zakat. Zakat contains all bank accounts whether owned by private households or some employers. But due to non-availability of disaggregated data it has fully been counted under household funds.

FS.3 shows the rest of the world funds which comprises of donor agencies. Development partners are also spending on health; however, only their direct spending is included. The money, which has been granted to the government (budgetary aid) and which thus is in the budget is reflected in government spending. NHA has to compromise in this regard as to avoid the double counting of funds transferred from one source to another. Out of total health expenditures in Pakistan, 31 % of health spending is funded by public sector. Out of total public sector health expenditures federal government is funding 38 %, provincial government is funding 34 % and district government/ local bodies are funding 22%. Out of total federal government spending, 74 % are for civil part of the government and the rest 26 % is disbursed through military setup. Of 68 % of the health expenditures funded through private sector, 89% is OOP health expenditures by households.

### 2.3 Financing agents

#### 2.3.1 Overview

In well compiled NHA, the total health expenditures by financing sources must match the total health expenditures by financing agents. Both figures result in a total of 448 billion Rs. They only differ in their breakdown. For the interlocking of financial agents by sources see Section 2.3. The health expenditures break up into current and development expenditures for Pakistan by financing agents are shown in Table 4 up to the maximum level of disaggregation confined, however, to those codes of the classification for which data was available. The detailed classification for Pakistan has been discussed in Chapter 1. Up to the three digits level the classification has been maintained according to the International Classification of Health Accounts, next levels of disaggregation are adopted according to the Pakistan specific situation and policy relevance.

Further explanation of each category is given in later sections. Financing agents also have public funds, private funds and rest of the world funds as the main categories. HF.1 denotes the general government and HF 1.1 shows the territorial government which is further disaggregated into federal government, provincial government and district government / local bodies. HF 1.2 shows the social security funds which are managed through government. It is further broken down into (i) employees social security institutions (ESSI) which are working in all four provinces and (ii) Zakat funds which are collected from bank accounts, deposit receipts, saving certificates etc. and then partly spent by government on health related activities. HF 1.3 shows the Autonomous Bodies/ Corporations which is further disaggregated into federal, provincial ABs/C.

	Table 4: Current and development health expenditure by financing agents (million Rs.)												
				2005-06			2007-08			2009-10			
	Agents b	y HF classification	Current Exp.	Devel- opment Exp.	Total	Current exp.	Devel- opment Exp.	Total	Current exp.	Devel- opment Exp.	Total		
			Million Rs.			Million Rs.			Million Rs.				
HF.1		General Government	46,394	18,408	64,802	67,369	21,907	89,276	94,531	47,335	141,866		
	HF.1.1	Territorial Government	38,406	18,158	56,564	57,538	21,791	79,329	81,962	47,260	129,222		
	HF.1.1.1	Federal Government	12,143	11,597	23,740	14,204	14,565	28,769	20,575	31,895	52,470		
	HF.1.1.1.1	Federal (Civil)	4,691	11,597	16,288	5,438	14,565	20,003	6,673	31,895	38,568		
	HF.1.1.1.1.1	MoH	3,379	7,457	10,836	3,762	10,287	14,049	5,269	16,442	21,711		
	HF.1.1.1.1.2	Other*	1174	37	1,211	1,509	939	2,448	1,203	15,453	16,656		
	HF.1.1.1.1.3	MoPW	138	4103	4,241	167	3,339	3,506	201	-	201		
	HF.1.1.1.2	Military	7,452	-	7,452	8,766	-	8,766	13,902	-	13,902		
	HF.1.1.2	Provincial Government	13,093	5,759	18,852	20,580	6,664	27,244	33,716	13,464	47,180		
	HF.1.1.2.1	Punjab	6,671	2,309	8,980	10,787	2,369	13,156	17,891	4,135	22,026		
	HF.1.1.2.1.1	Dept. of Health	5,832	2249	8,081	9,478	2,369	11,847	17,348	2,555	19,903		
	HF.1.1.2.1.2	Other*	823	60	883	1,291	-	1,291	520	-	520		
	HF.1.1.2.1.3	Dept. of Popula- tion Welfare	16	-	16	18	-	18	23	1,580	1,603		
	HF.1.1.2.2	Sindh	3,508	1,490	4,998	5,714	671	6,385	9,702	4,813	14,515		
	HF.1.1.2.2.1	Dept. of Health	2,909	772	3,681	5,025	644	5,669	8,986	4,628	13,614		
	HF.1.1.2.2.2	Other*	599	718	1,317	689	-	689	716	185	901		
	HF.1.1.2.2.3	Dept. of Popula- tion Welfare	-	-	-	-	27	27	-	-	-		
	HF.1.1.2.3	KP**	1,823	1,619	3,442	2,625	3,402	6,027	4,231	3,877	8,108		
	HF.1.1.2.3.1	Dept. of Health	1,645	1237	2,882	2,348	2,983	5,331	2,750	2,824	5,574		
	HF.1.1.2.3.2	Other*	178		178	270	10	280	1,471	542	2,013		
	HF.1.1.2.3.3	Dept. of Popula- tion Welfare	-	382	382	7	409	416	10	511	521		
	HF.1.1.2.4	Balochistan	1,091	341	1,432	1,454	222	1,676	1,892	639	2,531		
	HF.1.1.2.4.1	Dept. of Health	640	341	981	1,134	222	1,356	1,574	639	2,213		
	HF.1.1.2.4.2	Other*	192	-	192	320	-	320	318	-	318		
	HF.1.1.2.4.3	Dept. of Popula- tion Welfare	259	-	259	-	-	-	-	-	-		
	HF.1.1.3	District/Tehsil Government	13,170	802	13,972	22,754	562	23,316	27,671	1,901	29,572		
	HF.1.1.3.1	District Government	13,011	794	13,805	22,560	550	23,110	27,461	1,886	29,347		
	HF.1.1.3.2	Cantonments Boards	159	8	167	194	12	206	210	15	225		

	HF.1.2	Social Security Funds	2,613	250	2,863	2,988	116	3,104	4,292	75	4,367
	HF.1.2.1	Social Security Funds through Government	2,613	250	2,863	2,988	116	3,104	4,292	75	4,367
	HF.1.2.1.1	ESSI	1,802	250	2,052	2,196	116	2,312	3,034	75	3,109
	HF.1.2.1.2	Zakat Council	523	-	523	557	-	557	802	-	802
	HF.1.2.1.3	Bait ul Mal	288	-	288	235	-	235	456	-	456
	HF.1.3	Autonomous Bodies/Corporation	5,375	-	5,375	6,843	-	6,843	8,277	-	8,277
	HF.1.3.1	Federal Government	4,830	-	4,830	6,110	-	6,110	7,404	-	7,404
	HF.1.3.2	Provincial Government	545	-	545	733	-	733	873	-	873
HF.2		Private Sector	214,681	-	214,681	253,030	-	253,030	301,439	-	301,439
	HF.2.1	Other private health insurance	704	-	704	1,453	-	1,453	1,944	-	1,944
	HF.2.2	Private Households' Out-of-Pocket pay- ment	192,757	-	192,757⁵	227,316	-	227,316⁵	271,757	-	271,757
	HF.2.3	Local Non Govern- ment Organizations (NGO's)	21,220	-	21,220 <sup>6</sup>	24,261	-	24,261 <sup>6</sup>	27,738	-	27,738
HF.3		Rest of the World	3,565	-	3,565	4,388	-	4,388	5,098	-	5,098
	HF.3.1	Official Donor Agencies	3,565	-	3,565	4,388	-	4,388	5,098	-	5,098
		Total	264,640	18,408	283,048	324,787	21,907	346,694	401,068	47,335	448,403

\* Lump sum reimbursements of the federal, provincial/district governments' agencies have been included in the respective health expenditures of financing agent defined as "Other"

\*\* KP includes the health expenditures of FATA

HF.2 shows the private sector health expenditure which is further disaggregated into HF.2.1 private health insurance, HF.2.2 household OOP health expenditures and HF.2.3 local/national NGOs. HF.3 (Row) shows the expenditures by donor agencies/ development partners as financing agents.

Out of total health expenditures in Pakistan, 32 % is made by general government agents who include the social security, Zakat, Bait ul Mal and Autonomous Bodies/ Corporations health expenditures as well. The private expenditures constitute the 67 % of total health expenditures in Pakistan, out of which 90% are households' OOP health expenditures. The share of development partners/ donors organizations in total health expenditures is 1.14%.

### 2.3.2 Civilian (territorial) government

The title of this section is not common language in Pakistan. It has been chosen as a term for the total of Federal Government (which excludes military expenditures) and the provincial as well as the district governments. In the context of health financing this figure (the civilian territorial government health expenditures) is considered to be of special interest. It sums up to 129 billion Rupees out of overall 448 billion Rupees of total health expenditure in Pakistan during FY 2009-10.

Table 5 shows the federal and provincial (including districts) health expenditures by minor functions of Chart of Accounts (CoA) classification adopted by AGs and AGPR to record the

<sup>&</sup>lt;sup>5</sup> Estimates of OOP health expenditures have been revised by using new CPI of health related items categorized as "Health Group" which is based on 2007-08

<sup>&</sup>lt;sup>6</sup> Estimates of Local NGO's health expenditures has been revised by using new CPI of health related items categorized as "Health Group" which is based on 2007-08

government expenditures under the project named Project for Improvement in Financial Reporting and Auditing (PIFRA). This classification is based on "Government Finance Statistics by IMF", so they are in line with the international classifications.

Table 5: Civilian territorial government current health expenditures 2009-10 by Function											
Function											
	Million Rs.										
Function (CoA)	Federal	Punjab	Sindh	КР	Balo- chistan	Pakistan					
General Services	202	0	0	10	0	212					
Health Administration	222	3,657	2,230	557	2,171	8,837					
Hospital Services	5,176	27,678	12,454	7,015	1,767	54,090					
Medical Products, Appliances & Equipment	74	0	54	17	9	154					
Public Health Services	453	255	907	249	161	2,025					
R & D Health	1	0	0	0	0	1					
Other Administration	0	0	0	0	0	0					
Construction and Transport	0	0	111	0	0	111					
Economic, Commercial & Labour Affair	0	16	0	0	33	49					
Transfers	0	0	46	0	0	46					
Others	0	0	0	8	60	68					
Total	6,128	31,606	15,802	7,856	4,201	65,593					

The data on government health expenditures has been extracted from the appropriation accounts of respective provinces and districts as well as federal level. It contains all the health expenditures by any ministry or department. All the expenditures of Ministry/ Department of Health as a whole and Ministry/Department of Population Welfare (only function 015202) are included whether it is hospital expenditure or administrative expenditure whereas from all the other ministries only health related expenditures are extracted which are mainly covered under Code 07 (health) of CoA classifications. About 82% of the current expenditures are on hospital services, about 3 % on public health services.

### 2.3.3 Military health expenditures

The military health expenditures have been provided by the Military Accountant General. They include the expenditures by Army, Navy, Air Force, Defense Production Establishments, Inter Services Organizations and Accounts Offices including Pakistan Military Accounts Department. Military health expenditures are funded by government / Ministry of Finance through Ministry of Defense. The following figures show the health expenditures by province (federal area mainly consist of ICT) and by different expenditure categories as well as by entity.

Table 6: Military health expenditure by organization 2009-10 (million Rs.)											
Organization / category	Federal	Punjab	Sindh	KP	Balo- chistan	Gilgit	Pakistan				
Army		6,080.00	708.03	1,313.46	429.35	287.14	8,818.0				
Air Force	145.89	437.66	243.14	97.26	48.63		972.6				
Navy	377.10	1,134.49	629.83	251.93	125.97		2,519.3				
D.P. Establishment		696.79					696.8				
ISO'S (Excl P. M. A. D)		833.09					833.1				
A/C Org (Incl. P. M. A. D)		61.58	0.11	0.12		0.05	61.9				
Total	522.99	9243.61	1581.11	1662.77	603.95	287.19	13,902				
Of which in category											
Stores & Equipments	181.35	2,724.12	492.58	402.03	118.90	26.64	3,946				
Re-imbursement of Medical Charges	0.32	771.86	0.63	0.33	0.11	0.05	773				
Establishment Charges	341.32	5,747.62	1,087.89	1260.41	484.94	260.51	9,183				
Total	522.99	9243.6	1581.1	1662.77	603.95	287.19	13,902				

### 2.3.4 Cantonment Boards

The data on cantonment boards' health expenditures has been taken from Military Land and Cantonment Boards Department. Cantonment boards act as local bodies and are financially autonomous. The data is broken down into provinces and different health expenditure categories. As the table shows most of the expenditure has taken place in province Punjab and lowest health expenditure in Balochistan. Major proportion of health expenditures is on salaries of medical staff and the second category is medicine and reimbursements.

Table 7: Health expenditures of cantonment boards 2009-10 (million Rs.)										
Province	Punjab	Sindh	KP	Balochi- stan	Total					
Medicine & reimbursements	38	29	17	2	86					
Medical equipment	7	1	4	0	12					
Salaries of medical staff	44	30	34	4	112					
Construction / maintenance of Disp./Hospital	9	6	0	0	15					
Total	98	66	55	6	225					

### 2.3.5 Autonomous bodies/Corporations

Census of Autonomous Bodies/ Corporations was carried out in the year 2010 for the reference period 2005-06 to 2007-08. The purpose of this census was to collect data on remuneration of health expenditures of their employees. Health expenditures of Autonomous Bodies/ Corporations are mainly made either through reimbursement of medical charges, health insurances, or through their own health care facilities. It was observed in the Census that some of the Autonomous Bodies/ Corporations (both at federal & provincial levels) are providing cash medical allowances to their employees in salaries. These allowances are not included in the total health expenditures of Autonomous Bodies/ Corporations as it is not sure that the medical allowance is spent on the health care. Moreover, the precise estimate of the health care expenditures incurred by the employees out of the cash medical allowances is not possible as there is lack of information or national level research on it. Therefore, health expenditures of ABs/C, both at federal & provincial levels, incurred via reimbursement of medical charges, health insurances, or through their own health care facilities have been included in the NHA report. The following table gives an overview of federal & provincial Autonomous Bodies/ Corporations health expenditures by mechanism for the period 2005-06 to 2009-10. The health expenditures by mechanism for the

fiscal years 2008-09 & 2009-10 have been estimated on the basis of actual data obtained via census.

Table 8	Table 8: Federal & provincial ABs/Cs health expenditures for the period 2005-06 to 2009-10(million Rs.)											
Fiscal		Federal ABs/	Cs		Provincial ABs/Cs							
Year	Reimbursement	Own health facilities	Health Insurance	Total	Reimbursement	Own health facilities	Health Insurance	Total				
2005-06	3,555	1,252	23	4,830	345	198	2	545				
2006-07	3,719	1,364	28	5,111	400	216	3	619				
2007-08	4,579	1,500	31	6,110	495	225	13	733				
2008-09	5,042	1,650	34	6,726	545	241	14	800				
2009-10	5,552	1,815	37	7,404	600	257	16	873				

### 2.3.6 Social Security

Employees Social Security Institution (ESSI) is working in all four provinces. The data for ESSIs' health expenditures has been taken from the respective provincial ESSI. The health expenditures are shown by province and by categories of health expenditures. The administration / operational cost are included. As the table shows expenditures on health facilities have the major share in total ESSIs health expenditures followed by the cash benefits relevant to health expenditure. Most of the expenditure has been made in province Punjab followed by Sindh and the KP and Balochistan.

Table 9: Employees social security institutions health expenditures 2009-10									
			Million Rs.						
Type of health expenditure	Punjab	Sindh	KP	Balo- chistan	Pakistan				
Expenditure on health facilities	1802	977	101	67	2,947				
Reimbursement of medical charges	30	32	0	1.0	63				
Cash benefits relevant to health expenditure	68	23	3	5	99				
Total	1900	1032	104	73	3,109				

In Pakistan ESSI is only an agent as they do not have own funds. They are funded by private employers' (private industries and commercial establishments) contributions, instead.

### 2.3.7 Zakat and Bait-ul- Mal

The data on health expenditures through Zakat is taken from Ministry of Religious Affairs, Zakat and Ushr. Table 10 shows that Zakat funds at the provincial and national level utilized in 2009-10 for health care was 802 million Rupees.

Table 10: Zakat for health care by program, 2005-06 to 2009-10									
	Bud	Budget utilized (Million Rs.)							
Program	2005-06	2007-08	2009-10						
Health Care (national)	340	388	552						
Health Care (provincial)	183	169	249						
Leprosy Patients	0.57	0.57	0.57						
Total	523	557	802						

Source: Zakat & Ushr Department: Brief on Zakat System

The overall Zakat funds of 802 million Rupees have been utilized in the FY 2009-10 by the Provinces / areas according to the diversified set of programs. The share of the provinces (million Rupees) is as follows: Punjab 157, Sindh 49, KP 38, Balochistan 3, and National level or unregionalized 552. Further disaggregation is not available except one category of expenditures on leprosy patients in Punjab which amounts to 0.57 million Rupees.

In NHA, Zakat is an agent and not a source. Zakat funds are collected mainly from private households. The allocated budgets for health care at national and provincial levels from Zakat fund 2009-10 are entirely distributed among National Level Health Institution (NLHI) across Pakistan and respective provincial level hospitals/health institutions. Presently there are 89 NLHI in Pakistan which received grant for poor patients directly from ministry<sup>7</sup>.

Table	Table 11: Pakistan Bait-ul-Mal individual financial assistance for health										
	2007	-08	2008-	09	2009-	10					
Province	Beneficiaries	Million Rs.	Beneficiaries	Million Rs.	Beneficiaries	Million Rs.					
Punjab	3288	166	5,081	418.15	5,678	273					
Sindh	315	12	950	53.36	1,193	90					
KP & FATA	507	31	994	77.82	944	67					
Baluchistan	240	8	306	13.23	318	20					
ICT & N.A	461	18	1557*	80.3*	165	06					
Total	4811	235	8,888	643	8298	456					

\* Figure represents only ICT

Pakistan Bait-ul-Mal is providing individual financial assistance for health care across the Pakistan. The above table shows that it has provided health care assistance specifically to 8,298 individuals in the fiscal year 2009-10. The overall amount of 456 million Rupees has been received by the Provinces as individual financial assistance for the health care. Out of total amount distributed by PBM in provinces, Punjab received the highest share followed by Sindh, KP, and Balochistan.

### 2.3.8 Private Health Insurance

Health insurance is covered under the non-life insurance. In 2009-10 there were 52 insurance companies in Pakistan offering group health insurance or individual health insurance. The insurance companies are funded by premiums of their clients. They are not financing source but are agents as well as providers of (administrative) health services. Since the Securities and Exchange Commission of Pakistan (SECP) is the formal regulator of the insurance industry un-

<sup>&</sup>lt;sup>7</sup> Year Book 2008-09, Ministry of Zakat & Ushr, Islamabad.

der the Insurance Ordinance 2000, the data on private health insurance has been taken from SECP. The premiums written minus the incurred claims are taken as the remuneration of the administrative efforts of the companies to be recorded in the provider figures.

Table 12: Private health insurance 2009-10										
	Millio									
Year	Gross premium written	Gross incurred claims	Administrative health service provided (premi- um minus claims)							
2010	2017	1583	434							
2009	1871	1347	524							
2008	1577.5	1130.6	447							
2007	1327.7	728.9	599							
2006	817.7	479.1	339							
2005	589.8	358.5	231							
Average of 2005-06	703.8	418.8	285							
Average of 2007-08	1452.6	929.8	523							
Average of 2009-10	1,944	1,465	479							

### 2.3.9 Households OOP health expenditures

Households' OOP payments are defined as direct payments for health services from the households' income or saving. However, the direct payment might be reimbursed by employers or by health insurance. Therefore, it depends on the exact definition. In the future the households' OOP payments will be treated as a financial "scheme", just like insurances, as there are ingoing's and outgoings in their financial relationship with providers, employers and insurances (see "revision of the System of Health Accounts" in Section 6.3 of this report).

The OOP survey (see Chapter 5) aimed at collecting the "gross" figures of OOP. Table 13 shows the "gross" total OOP health expenditures incurred by private households in the fiscal year 2009-10 amounts to 283 billion Rupees. Punjab has the highest share (55%) followed by Sindh (24%) and KP (16%, including FATA)) while Balochistan has just 5% share of Pakistan's OOP health spending. The "net" OOP figures for the year 2009-10 are obtained after deducting the third-party payments, such as insurance or reimbursements (Table 13). OOP health expenditures do not include AJK.

Table 13: OOP health expenditu	ires 2009	9-10 by	provinc	e and co	ompor	ent (mill	ion Rs.)
Financing source / Province	Punjab	Sindh	KP*	Balo- chistan	ICT**	Unregio- nalised	Pakistan
Gross OOP health expenditures	154,399	67,097	44,572	14,405	2,090		282,563
Percentage Share	54.6	23.8	15.8	5.1	0.7		100
Reimbursement by Federal Government	278	76	164	27	0		545
Reimbursement by Provincial Government	391	716	381	224	0		1,712
Reimbursement by fed. Autonomous bodies	3,130	1,341	838	280	0		5,589
Reimbursement by prov. Autonomous B.	214	310	86	6	0		616
Reimbursem. by other governm. entities	791	16	8	1	0		816
Reimbursem. by priv, health insurance						1,465	1,465
Reimbursem. by Social security institutions	30	32	0	1	0	_	63
Net OOP expenditures of households.	149,565	64,606	43,095	13,866	2,090	-1,465	271,757

\*KP includes the figure of FATA \*\*Islamabad Capital Territory

#### 2.3.10 Development Partners/Donors

Data on health expenditures by development partners/ donor agencies has been taken from the Development Assistance Data Base (DAD) of Economic Affairs Division (EAD). All the figures were extracted in November, 2012 and are off budget figures which mean that double counting of budget support from donors is avoided.

The data from DAD database only covers the off-budget expenditures/disbursements. It means those grants/amounts which appear in the government budgetary books and in appropriation accounts published by Accountant General are treated as on-budget activities, separately. Also the Public Sector Development Program (PSDP) allocations are not included in the DAD database, as they are covered or recorded in annual appropriation accounts, and these allocations are part of different health expenditures category which are recorded under health ministry in federal government or under health department in provinces.

The report for the year 2009-10 covers the donors' expenditures in the four provinces of Pakistan. For reasons of consistency it does not include the donors' expenditures in AJK, though the data is available in the DAD database.

Table 14: Donor health expenditures 2009-10 (million Rs.)								
Sector	Punjab	Sindh	KP*	Balochistan	ICT	Gilgit	Country Wide	Total
	OFF Budget 2009-10							
Child Health	-	-	383	-	-	-	148	531
HIV & AIDS	5	-	-	-	1	-	32	38
Infectious Dis- ease Control	-	-	-	-	-	-	50	50
Maternal Health	-	-	-	-	-	-	4,036	4,036
Medical Services	-	-	-	-	-	21	198	219
Other - Health and Nutrition	8	3	44	17	-	-	98	170
Primary Health	-	-	37	-	-	-	-	36
Unallocated	-	-	-	-	-	-	17	16
Total	13	3	464	17	1	21	4,579	5,098

\*KP includes the figure of FATA

Source: EAD, http://www.dadpak.org/dad/Documents/DAD User\_Guides.html

The biggest share has been spent at un-regionalize, which could not be allocated to provinces, followed by FATA, KP, Balochistan, Punjab and Sindh and ICT has very low share in the donors' expenditures on health.

### 2.3.11 Local Non-Government Organizations

Philanthropic/ Non-Government organizations (NGOs) are working in both urban and rural areas of Pakistan. These organizations are working in multiple sectors to uplift the community by providing awareness and basic amenities of life. Philanthropic organizations are registered under different laws whereas very few are unregistered. Philanthropic sector is different from 'state' as it collects donations, charity or alms from the community and uses it for deserving communities, voluntarily.

The table below shows the province-wise list of active NGOs, divided into two categories on the basis of their major activities, 'health care' and 'others' organizations in order to focus on the health related NGOs. However, the expenditures of the NGOs were not provided. They had to be estimated.

Table 15: Local Non-Government Organizations 2007-08						
Province	Health care	Others	Total			
Punjab	864	4,192	5,056			
Sindh	1,642	4,759	6,401			
KP	1,011	1,360	2,371			
Balochistan	308	1,524	1,832			
Total	3,825	11,835	15,660			

Source: Ministry of Social Welfare

For this purpose the health expenditures per NGO were obtained from a sample of 263 NGOs related to health in all four provinces taken from a survey of NGOs conducted by PBS in 2008. The average (Column 5 of Table 16) was then applied to all health related NGOs in Pakistan. To avoid double counting, donations by international agencies have been excluded from the total health care expenditure by NGOs. These donations are already covered in Financing Sources.

Table 16: Health expenditures of health related NGOs 2009-10 (million Rs.)								
Province	Health related* NGO's	Sample of health related NGO's of PBS	Expenditures of sample NGO's		Health Expenditures 2007-08	Health Expenditures 2009-10		
		FDS	total	average				
	Numi	Million Rs.			Million Rs.			
1	2	3	4	5	6	7		
Punjab	864	168	1,866	11.1	5,480	6,265		
Sindh	1,642	73	88	1.2	10,415	11,907		
KP	1,011	12	9	0.8	6,413	7,332		
Balochistan	308	10	7	0.7	1,953	2,234		
Pakistan	3,825	263	1,970	7.5	24,261	27,738		

\* Ministry of Social Welfare and Pakistan Bureau of Statistics

Per NGO health expenditure is 7.5 million Rupees and total health expenditure incurred by health related NGOs is 28,649 million Rupees. The health expenditure incurred by interna-

tional Donor agencies is amounting to Rs. 4,388 million. After excluding the international funding, the total health expenditures (2007-08) incurred by health related local NGOs remain 24,261 million Rupees.

Health expenditures of health related local NGOs for the FY 2009-10 has been estimated by inflating the figures of 2007-08 by the rate recorded, for a group of "39" health related commodities categorized as "Health Group", in the CPI (14.33 % for the average of 2009-10 over 2007-08). The above table shows the estimated expenditures of health related local NGOs for 2009-10 for the four provinces as well as at the national level.

#### 2.4 Financing sources by financing agents

Matrix 1 shows the flow of funds for health expenditures in Pakistan. The rows are grouped according to financing agents while financing sources are listed in columns. The matrix shows the flow of funds from financing source to financing agent in Pakistan. For example in case of federal government Ministry of Finance is the financing source and Ministry of Health, Ministry of Population Welfare, Ministry of Defense through military setup and other ministries are financing agents. In some of the cases financing sources and financing agents are the same which means that the financing sources are dedicated to own health care spending exclusively and the money spent for health services (agents) is fully funded from their own resources.

In Matrix 1, the "net" OOP figure for the private households has been included. The lump sum reimbursements of medical charges of the federal and provincial governments ministries/departments have been included in the respective financing agent categorized as "Other". Whereas the reimbursements made by other employers or health insurance (Military, Cantts, ESSIs and autonomous bodies etc) to the households are already included in the respective health expenditure.

									Financi	ng Sources					
						FS.	1 Public fund	s		FS.2 Private funds			FS.3 ROW		
					FS.1.1	FS.1.1 Government Funds FS.1.1.1 FS.1.1.2 FS.1.1.3 Fed. Prov. District / Govt. Govt. Tehsil			FS.1.2 Autonomous Bodies		FS.2.2	FS.2.3	FS.3.1 Official	Total	%
		Financing	a Agents		Fed.				FS.1.2.2 Provin- cial	Em- ployer funds	House- hold funds	Local NGO's	donor agen- cies		
	HF.1.1.1 Health				5,269									5,269	1.31
		Federal	Minist	ry: Other Ministries	1,203									1,203	0.30
	Govern- HF.1.1   ment			Population Welfare	201									201	0.05
	HF.1.1 Territorial		Militar	y health expenditure	13,902									13,902	3.47
	Govern-	HF.1.1.2 Provincial		Health		30,658								30,658	7.64
HF.1	ment	Govern-	Dept.	of: Population Welfare		33								33	0.01
General Gov-		ment	<u> </u>	Other		3,025	07.404							3,025	0.75
ernment		HF.1.1.3 District Bodies		District Government Cantonments Boards			27,461 210							<u>27,461</u> 210	6.85 0.05
	HF.1.2	HF.1.2.1		ESSI	-		210			3,034				3,034	0.05
	Social	Social secu	rity	Zakat health expenditure						0,004	802			802	0.20
	security funds	funds throu Governmen	ign	Bait UI Mal							456			456	0.20
	HF.1.3 Au	Itonomous		Federal				7,404						7,404	1.85
	Bodies / C	orporation		Provincial					873					873	0.22
HF.2	HF.2.2 Othe	er private insu	rance							1,944				1,944	0.48
Private	HF.2.3 Priva	ate household	s' out-of-	pocket payment							271,757			271,757	67.76
Sector	HF.2.4Local NGO's										27,738		27,738	6.92	
HF.3 ROW												5,098	5,098	1.27	
				Total	20,575	33,716	27,671	7,404	873	4,978	273,015	27,738	5,098	401,068	100
				%	5.35	8.61	6.90	1.85	0.22	1.24	68.07	6.92	1.27	100	

### 2.5 Health Care Providers

#### 2.5.1 Definition and rough classification

In addition to financing sources and financing agents health care providers are the third dimension of NHA. Health care providers are the end recipients of the health care funds. Figures related to them answer the question of "To whom did the money go?" Examples of providers include public and private hospitals, medical centers, dispensaries, individual solo clinics, pharmacies, laboratories etc. The following are the three broad categories of the health care providers:

- Public Provider
- Private Provider
- Non-Government Organization providers/Non-Profit Institutions

The public sector is running health care facilities for its employees and for the general public across the country. The public sector can further be subdivided into core government, autonomous bodies / public corporations and social security. The providers in the core government can further be divided into

- Ø Providers with the civilian territorial government (Federal & Provincial) which mainly are the health departments. Provision of health care is primarily the responsibility of the provincial governments. This health care provision is a three tiered system with primary, secondary and tertiary levels of care.
- Ø Providers within the military health care setup
- Ø Providers run by the Cantonment Board of Pakistan

Autonomous bodies/ Corporations are providing health care services primarily to their own employees through their own doctors, clinics and hospitals. Employees Social Security Institutions are provincial autonomous bodies. In Pakistan they entertain some own health care facilities.

The public sector health care providers have been covered by data obtained from the federal & provincial appropriation accounts, Military Accountant General, Cantonment Board of Pakistan, Employees Social Security Institutions and a census of autonomous bodies/corporations.

The main categories of private sector health care providers are:

- Ø Major hospitals with specialized health facilities
- Ø Other hospitals with variable quality / level of services
- Ø Individually owned clinics / general practitioners including dental and eye care. These clinics are either owned by a single person who is the sole proprietor of the facility or they are run on partnership basis
- Ø Homeopaths, hakeems, tabibs and other traditional health providers
- Ø Health care facilities from NGOs including the philanthropic organizations
- Ø Ambulatory health services
- Ø Facilities providing diagnostic & laboratory services
- Ø Pharmacies and other retail sellers of medical goods
- Ø Providers of administration and governance

The private sector has widely been covered through a survey of private health care providers and census of big hospitals (for details see Chapter 4). The pharmacies were covered from a

secondary source (see Section 2.5.3). As a cross checking mechanism, the expenditures from the supply side were compared with out of pocket expenditures on health (demand side).

Some less significant providers of health services are not covered. This is mainly true for other retailers of medical goods, e.g. opticians and chemists, and for providers of ambulatory services carried out as secondary activity, only (e.g. taxi drivers). It is envisaged to extend the scope of the health care providers dimension in the fourth round of Health Accounts.

#### 2.5.2 Health care providers: overview of results

Table 18 gives an overview of the Total health expenditure by all those providers which were covered in the survey/census of private health care providers 2009-10 and other administrative data (General Govt. Data). The classification applied for this is given in detail in Annexure 8. HP.1 shows Hospitals and HP 1.1 denotes the General Hospitals which is further disaggregated into government-owned general hospitals, Hospitals under social security, Hospitals of Autonomous Bodies/ Corporations under the federal/provincial governments etc. HP 1.2 shows the category of mental health and substance abuse hospitals which are further disaggregated into three sub categories. HP 1.3 shows Other specialty Hospital (hospitals only for a specific disease or condition other than mental and substance abuse) which is further disaggregated into four subcategories. HP.3 denotes providers of ambulatory health care. HP.4 shows the retail sale and other providers of medical goods. HP.5 denotes provision and administration of public health programs, HP.6 General Health administration and insurance and HP.nsk Providers not specified by kind. It includes reimbursements, health expenditure of private insurance companies, local NGO's, etc.

Provi	ders classified by relevant categories of HP- Classification	Million Rs
HP.1	Hospitals	130,509
HP.1.1	General Hospitals	125,568
HP.1.1.1	Government-owned General Hospitals	89,110
HP.1.1.2	Hospitals under Social Security	1,387
HP 1.1.3	Hospital of autonomous bodies/ corporations	1,488
HP 1.1.4	Private Hospitals (Private for Profit entities)	26,754
HP 1.1.5	Hospitals Owned by Charitable Institutions/NGOs	6,829
HP.1.2	Mental health and substance abuse hospitals	24
HP.1.3	Other specialty Hospitals	4,917
HP.3	Providers of ambulatory health care	100,104
HP.3.1	Offices of Physicians	7,737
HP.3.2	Dental clinics	3,090
HP.3.3	Offices of other Health Practitioners	52,827
HP.3.4	Outpatient care centers	18,449
HP.3.5	Medical and diagnostic laboratories	7,239
HP.3.6	Providers of home health services	-
HP.3.9	Other Providers of Ambulatory care	10,762
HP.4	Retail sale and other providers of medical goods	109,796
HP.5	Provision and administration of public health programmes	970
HP.6	General health administration and insurance	9,034
HP.9	Rest of the world	5,098
HP.nsk	Providers not specified by kind	45,557
	Total of Providers	401,068

#### 2.5.3 Retailers of pharmaceuticals

Data on sales / purchases of pharmaceuticals was provided by Intercontinental Marketing Services (IMS)<sup>8</sup> in March 2010. IMS claims to be the world's leading provider of market intelligence to the pharmaceutical and healthcare industries. Their data set of sales of pharmaceuticals is divided into fifteen broad functional categories as represented in the table below covering the period from October 2008 to September 2009. Data for the complete fiscal year was given for the totals of pharmaceutical sales, only. Therefore, the percentage share for each functional category for October 2008 to September 2009 was applied to the total pharmaceutical sales of FY 2007-08. Other years are in the Annexure 11.

<sup>&</sup>lt;sup>8</sup>http://www.imshealth.com/portal/site/imshealth

The percentage share for retail of pharmaceuticals, doctors' purchase and private hospital pharmacies' purchase was calculated from the figures available for Oct 2008 to Sep 2009. This percentage share was then applied to the total pharmaceutical sales of fiscal year.

Table 18: Purchases of pharmaceuticals in Pakistan 2009-10 (million Rs.)											
	Total purchases	Purchases through retail	Doctor's Purchases	Private Hospital Pharmacies							
Total	122,297	109,796	7,713	4,788							
A - Alimentary T.& Metabolism	26,190	23,998	1,287	905							
B - Blood + B.Forming Organs	3,764	3,348	231	185							
C - Cardiovascular System	8,650	8,213	217	220							
D - Dermatological	4,201	3,869	231	101							
G - G.U.System & Sex Hormones	3,743	3,365	213	165							
H - Systemic Hormones	1,264	1,093	104	67							
J - Systemic Anti-Infectives	32,523	27,799	3,079	1,645							
K - Hospital Solutions	660	589	28	43							
L –Antineoplast+Immunomodul	2,917	2,337	346	234							
M - Musculo-Skeletal System	8,651	7,878	448	325							
N - Nervous System	11,846	10,897	564	385							
P - Parasitology	3,762	3,464	219	79							
R - Respiratory System	9,291	8,729	351	211							
S - Sensory Organs	2,388	1,935	326	127							
T - Diagnostic Agents	72	40	9	23							
V - Various	2,375	2,242	60	73							

Total pharmaceutical sales in Pakistan in 2009-10 were estimated as 98 billion Rupees and after applying the markup, purchasers' prices are 110 billion Rupees. Markups for sales of pharmacies and other retailers of pharmaceuticals is 12.5%. All pharmaceutical products show an increasing trend of sales from the fiscal year 2007-08 to 2009-10.

The total of the purchases through retailers (110 billion Rs) is the one entering in the tables of provision of health care goods and services. The other sales (doctors and pharmacies of hospitals) are part of the expenditures already captured through the surveys of the providers. Thus, there is no double-counting.

#### 2.6 Health care providers by financing agents

Matrix 2 shows the flow of funds for health expenditures in Pakistan channeled by financing agents (in columns) to the providers of health care (in rows).Reading example: in case of federal government, Ministry of Health, Ministry of Population Welfare, Ministry of Defense through military setup and other ministries are financing agents while hospitals or other health care facilities under the federal/provincial/district governments are the health care providers. The allocation to providers has been done as far as empirically possible. However, some amount falls under row "HP.nsk". For some agents (Reimbursements, Insurance, local NGOs etc.) spending for health is available as "HP.nsk", only.

The provider figures are not fully comprehensive as retailers for other health goods than pharmaceuticals are missing (opticians, retailers of hearing aids, artificial limbs, orthopedics etc.). But in full fledged recording of providers even taxi drivers as well as florists, bakeries or canteens (row "all other industries") should be accounted for as the payments for transports, gifts etc. are included in the health expenditures reported by the private households under OOPs.

			Matrix 2: Current heal	th expen	diture by	health o	care prov	viders a	nd finan	icing ag	ents 200	09-10 (mi	illion Rs	.)	
									Fina	ncing age	nts				
						HF.1 Ger	neral Goverr	nment			HF.	2 Private Se	ector		
				HF.	1.1 Territori	al Governm	ent	HF.1.2 Social Security Funds		HF.1.3 Au-	HF.2.2 Other	HF.2.3 Private		HF.3.1 Official donor	Total
		Health care	providers	Fed. Gov civil	ernment Military	Pro- vinces	District bodies	ESSI	Zakat & Baitul Mal	tono- mous Bodies	private insur- ance	house- holds' OOP	HF.2.4 NGOs	agen- cies	
		HP.1.1.1	Gov. owned general hosp.	4,717	10,855	23,865	17,527		1,257			30,889			89,110
	HP.1.1 Gen- HP.1.1.2 Hosp. under Soc. Security			-,, , , , , , , , , , , , , , , , , , ,	10,000	20,000	11,021	1,387	1,207			00,000			1,387
HP.1	Gen- eral	HP.1.1.3	Hospital. of autonomous. bodies					1,001		1,488					1,488
Hospi-	Hospi- tals	HP.1.1.4	Private Hospitals									26,754			26,754
tals	iai3	HP.1.1.5	owned by Charity / NGOs									6,829			6,829
	HP.1.2	Mental Hea	alth & Substance Abuse H.									24.07			24
	HP.1.3	Other Spec	cialist hospitals	40	92	202	148					4,435			4,917
	HP.3.1	Offices of Phy	/sicians									7,737			7,737
HP.3	HP.3.2	Dental Clinics	3									3,090			3,090
Pro-	HP.3.3	Offices of oth	er health Practitioners									52,827			52,827
vider of			HP. 3.4.1 Public	948	2,182	4,798	3,583	1.647		584		2,356			16,098
Ambu-	Outpatio	ent Care Cen	HP. 3.4.2 Private					.,				2,351			2,351
latory Health	HP.3.5	Medical & Dia	agnostic Labs									7,239			7,239
Care	HP.3.6	Provider of ho	ome health care services												0
	HP.3.9	Other provide	ers of ambulatory care									10,762			10,762
HP.4 Re	tail sale 8	& other provi	ders of medical goods									109,796			109,796
HP.5 Pro		HP.5.1 Fam	. Planning & Prim. H. Care												0
& adm public l		HP.5.2 Imm	uniz. (EPI), Diarrheal Dis.			38	45								83
	programs HP.5.3 to HP.5.10 Other Programs				535	352								887	
HP.6 Ge	IP.6 General Health admin & Insurance		222		2,517	5,816				479				9,034	
HP.8 Ins	titutions providing health related services													0	
HP.9 Re	IP.9 Rest of the world													5,098	5,098
HP.nsk				746	773	1,761	200		0.57	6,205	1465	6,668	27,738		45,557
			Total health expenditures	6,673	13,902	33,716	27,671	3,034	1,258	8,277	1,944	271,757	27,738	5,098	401,068

#### 2.7 Comparison of NHA with WHO figures

The annual per capita health expenditures for Pakistan as per NHA 2009-10 are 31.2 US\$(Rs. 2,611). The respective numbers reported to WHO by India and Bangladesh are 51.0 US\$ and 25.0 US\$ respectively. The ratios of health expenditures 2009-10 according to NHA over GDP are 3 % while public sector health expenditures according to NHA over government expenditures are 9.2 %. The private sector health expenditures according to NHA over Household final consumption expenditure are 2.5 %.

The WHO data has been taken from its website. The following table gives the comparison of various financing agents recorded in NHA-Pakistan and WHO.

	Table 19: Comparison with WHO figures (million Rs.)										
	Classification	NHA Pakistan 2009-10	World Health Organization 2009-10								
HF.1	General government	141,866	116,856								
HF.1.2	Social Security Fund	4,367	3,958								
HF.2.3	Private HH's OOP	271,757	262,028								
HF.3.1	Private health expenditure	301,439	297,768								
Total exp	enditure on health	448,403	414,624								

Source WHO-figures: http://apps.who.int/nha/database/StandardReport.aspx?ID=REP\_WEB\_MINI \_TEMPLATE\_WEB\_VERSION&COUNTRYKEY=84701

The general government health expenditures according to NHA Pakistan exceed the WHO figures as NHA Pakistan includes the military health expenditures, reimbursement of medical charges for the government employees, federal/provincial AB/Cs health expenditures etc. OOP expenditures exceed the WHO figures because NHA has incorporated the special OOP health expenditures survey. Another issue, which is already discussed, is that NHA does not double-count the funds transferred from one source to other source i.e. donors to government. According to NHA...

- ... Total health expenditures are 3.0 % of GDP (at market price) in 2009-10.9
- ... General government health expenditures are 9.2 % of general government final consumption expenditures in 2009-10 as according to national accounts.<sup>10</sup>
- ... Private health expenditures are 2.5 % of Household final consumption expenditure as according to national accounts.<sup>11</sup>

<sup>&</sup>lt;sup>9</sup> Pakistan Bureau of Statistics, National Accounts main aggregates (at market price)

<sup>&</sup>lt;sup>10</sup> Pakistan Bureau of Statistics, National Accounts, Expenditure on Gross domestic product at current prices, general government final consumption expenditure

<sup>&</sup>lt;sup>11</sup> Pakistan Bureau of Statistics, National Accounts, Expenditure on Gross domestic product at current prices, Household final consumption expenditure



### **3 Provincial Health Accounts**



#### 3.1 Health expenditure at provincial level

The province wise breakdown of health expenditures in the literature is called Regional Health Accounts<sup>12</sup> or Provincial Health Accounts<sup>13</sup>. The following matrices show the total health expenditures for each Province.

Provincial Health Accounts are sub-accounts of the NHA and track expenditures on health for a specific regional section of the health system. Similar to NHA, the sub-accounts measure the expenditures by financing sources, financing agents, health care providers and functions and show the flow of resources through the construction of matrices. But it is imperative to understand the criterion of regionalization. The expenditures are allocated to the regions according to the location where the health care has been provided. The residency of the patient is not a criterion, at all. The expenditures of a resident of Punjab in a clinic at Peshawar would be recorded as expenditure in KP. Accordingly, the military health expenses are allocated to the location of the military health facilities. Nevertheless, it can be assumed that the figures widely reflect the regional distribution of benefits by residency of the patients.

In Punjab, the current expenditures made by its provincial government in its capacity as financial agent are (8.96%). The share of social security is 1%. OOP expenditures of private households as agents account for 75% of overall all health expenditures made in Punjab.

In Sindh, agent's current expenditures made by its government were 10.08% of overall expenditures. The share of social security is only 1.07%. The share of private households' OOP expenditure is 67.14%.

In KP, the current expenditures made by the provincial government were 6.92% which is lowest among all provinces. In KP and Balochistan, the share of social security expenditures are 0.17% and 0.34% respectively which are lower than Punjab and Sindh. In KP (including FATA), the share of OOP is around 71%. The share of donor in overall health expenditures in KP is 0.76%.

In Balochistan, the share of expenditures of the provincial government is 8.90% and of the district government is 11.92% while the share of OOP health expenditures were 65%.

<sup>&</sup>lt;sup>12</sup>See WHO, Workshop on Health Financing in Pakistan, 2007, <u>http://www.who.int/nha/events/en/</u>.

<sup>&</sup>lt;sup>13</sup>See ADB, Technical Assistance Completion Report, 1997, <u>http://www.adb.org/Documents/TACRs/PNG/tacr-png-2772.pdf</u>.

#### Pakistan Bureau Of Statistics

	M	atrix 3: Finaı	ncing so	ources by f	inancing age	ents - Pu	njab Curre	ent Health	Expenditu	ire 2009-1	10 (millic	on Rs.)		
								Fi	nancing sour	ces				
					FS.1 Public funds				FS.2 Private funds			FS.3 ROW		
					FS.1.1 Government Funds			FS.1.2	F0.04	FS.2.2	F0 0 0	FS.3.1		
	Financing agents					FS.1.1. 2 Prov. Gov.	FS.1.1.3 District / Tehsil bodies	Autono- mous Bod- ies	FS.2.1 Employ- er funds	House- hold funds	FS.2.3 Local NGO's	Official donor agencies	Total	%
		HF.1.1.1	Federal	Gov. (civil)										
		Federal Government	Military h expendit		9,244								9,244	4.63
	HF.1.1 HF.1.1.2			Health		17,348							17,348	8.68
	Territorial		Dept. of:	other		520							520	0.26
HF.1 Gen-	Govt. Gov			Population Welfare		23							23	0.01
eral Gov- ernment		HF.1.1.3	District 0	Government			14,106						14,106	7.06
ernment		District Bodies	Cantonn	nent Boards			89						89	0.04
	HF.1.2	HF.1.2.1 Social secu-	ESSI						1830				1830	0.92
	Social security	rity funds through	Zakat he	alth expend						157			157	0.08
	funds	Government	Bait UI N	lal						273			273	0.14
	HF.1.3 Auto	nomous Bodies	/ Corporat	ions				343					343	0.17
HF.2 Priv.	HF.2 Priv. HF.2.3 Private households' out-of-pocket payment									149,565			149,565	74.87
Sector	Sector HF.2.4Local Non Government Organizations (NGO's)										6,265		6,265	3.14
HF.3 ROW	F.3 ROW HF.3.1 Official donor agencies											13	13	0.01
	Tota					17,891	14,195	343	1,830	149,995	6,265	13	199,776	100
				%	4.63	8.96	7.11	0.17	0.92	75.08	3.14	0.01	100	

	м	latrix 4: Fina	ncing so	ources by f	inancing ag	ents – Si	indh Curre	ent Health E	Expenditu	re 2009-1	0 (millio	n Rs.)		
								Fii	nancing sour	ces				
						FS.1 Put	olic funds		FS.2	Private fun	ds	FS.3 ROW		
					FS.1.1 G	Funds	FS.1.2	FS.2.1	FS.2.2	FS.2.3	FS.3.1			
	Fi	nancing agents			FS.1.1.1 Federal Gov.	FS.1.1. 2 Prov. Gov.	FS.1.1.3 District / Tehsil bodies	Autono- mous Bod- ies	Employ- er funds	House- hold funds	F3.2.3 Local NGO's	Official donor agencies	Total	%
		HF.1.1.1	-	Govt. (civil)										
		Federal Government	Military I expendit		1,581								1,581	1.64
	HF.1.1	HF.1.1.2		Health		8,986							8,986	9.34
	Territorial Govt.	Provincial Government	Dept. of:	other		716							716	0.74
HF.1 Gen-	Govt.			Population Welfare		0							0	0.00
eral Gov- ernment		HF.1.1.3	District (	Government			6,816						6,816	7.08
ennient		District Bodies	Cantonn	nent Boards			60						60	0.06
	HF.1.2	HF.1.2.1 Social secu-	ESSI						1,027				1,027	1.07
	Social security	rity funds through	Zakat he	alth expend						49			49	0.05
	funds	Government	Bait UI N	lal						90			90	0.09
	HF.1.3 Auto	onomous Bodies	s / Corpora	tions				380					380	0.39
HF.2 Private										64,606			64,606	67.14
Sector	FIF.2.4 Local Non Government Organizations										11,907		11,907	12.37
HF.3 ROW	F.3 ROW HF.3.1 Official donor agencies											3	3	0.003
	Total					9,702	6,876	380	1,027	64,745	11,907	3	96,221	100
				%	1.64	10.08	7.15	0.39	1.07	69.14	12.37	0.003	100.00	

	Matrix 5:	Financing s	ources	by financing a	agents –K	hyber Pa	akhtunkhw	va Current	Health Ex	penditure	e 2009-1	0 (million F	Rs.)	
								F	-inancing so	urces				
						FS.1 P	ublic funds		FS.2	2 Private fun	lds	FS.3 ROW		
					FS.1.1	Governmei	nt Funds	FS.1.2		FS.2.2		FS.3.1		
		Financing agent			FS.1.1.1 Federal Gov.	FS.1.1. 2 Prov. Gov.	FS.1.1.3 District / Tehsil bodies	Autono- mous Bod- ies	FS.2.1 Employ- er funds	House- hold funds	FS.2.3 Local NGO's	Official donor agencies	Total	%
		HF.1.1.1	Federal	Gov. (civil)										
		Federal Government	Military expendi		1,663								1,663	2.72
	HF.1.1	HF.1.1.2		Health		2,750							2,750	4.49
	Territorial	Provincial Government	Dept. of:	other		1,471							1,471	2.41
HF.1 Gen-	Govt.			Population Welfare		10							10	0.02
eral Gov-		HF.1.1.3	District	Government			4,006						4,006	6.55
ernment		District Bodies	Cantonr	nent Boards			55						55	0.09
	HF.1.2	HF.1.2.1 Social secu-	ESSI						104				104	0.17
	Social security	rity funds	Zakat he	ealth expend						38			38	0.06
	funds	through Government	Bait UI N	/lal						67			67	0.11
	HF.1.3 Auto	onomous Bodies	/ Corpora	tions				142					142	0.23
HF.2 Priv.	HF.2.3 Priva	te households'	out-of-poc	ket payment						43,095			43,095	70.42
Sector	Sector HF.2.4Local Non Government Organizations (NGO's)										7,332		7,332	11.98
HF.3 ROW	IF.3 ROW HF.3.1 Official donor agencies											464	464	0.76
				Total	1,663	4,231	4,061	142	104	43,200	7,332	464	61,197	100
				%	2.72	6.91	6.64	0.23	0.17	70.59	11.98	0.76	100.00	

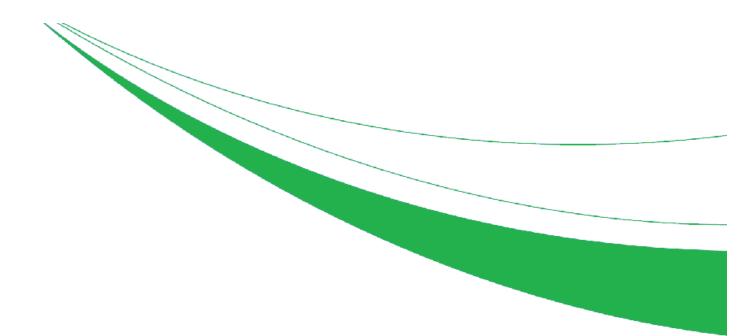
	Matr	ix 6: Financi	ing soui	rces by fina	incing agent	s - Balo	chistan Cເ	urrent Healt	th Expend	liture 200	9-10 (mi	llion Rs.)		
								Fi	nancing sou	ces				
						FS.1 Put	olic funds		FS.2	Private fun	ds	FS.3 ROW		
					FS.1.1 Government Funds			FS.1.2	F0.0.4	FS.2.2	FS.2.3	FS.3.1		
	Fi	nancing agents			FS.1.1.1 FS.1.1.1 Federal Gov. Foderal Gov. FS.1.1.1 FS.1.1.3 District / Tehsil bodies		Autono- mous Bod- ies	FS.2.1 Employ- er funds	House- hold funds	Local NGO's	Official donor agencies	Total	%	
		HF.1.1.1	Federal	Gov. (civil)										
		Federal Government	Military expendi		604								604	2.84
	HF.1.1	HF.1.1.2		Health		1,574							1,574	7.40
	Territorial	Provincial Government	Dept. of:	other		318							318	1.50
HF.1 Gen-	Govt.			Population Welfare		0							0	0.00
eral Gov-		HF.1.1.3	District	Government			2,533						2,533	11.92
ernment		District Bodies	Cantonr	nent Boards			6						6	0.03
	HF.1.2	HF.1.2.1 Social secu-	ESSI						73				73	0.34
	Social security	rity funds	Zakat he	ealth expend						3			3	0.01
	funds	through Government	Bait UI N	lal						20			20	0.09
	HF.1.3 Auto	nomous Bodies	/ Corpora	tions				8					8	0.04
HF.2 Priv.		te households' (								13,866			13,866	65.23
Sector											2,234		2,234	10.51
HF.3 ROW	IF.3 ROW HF.3.1 Official donor agencies											17	17	0.08
				Total	604	1,892	2,539	8	73	13,889	2,234	17	21,256	100
				%	2.84	8.90	11.94	0.04	0.34	65.34	10.51	0.08	100.00	

Overall, these results show that the shares of financing agents of the health expenditures are relatively heterogeneous between different provinces. Table 20 provides the data of the provinces plus those for Islamabad Capital Territory (ICT) and the un-regionalized part of Federal Government.

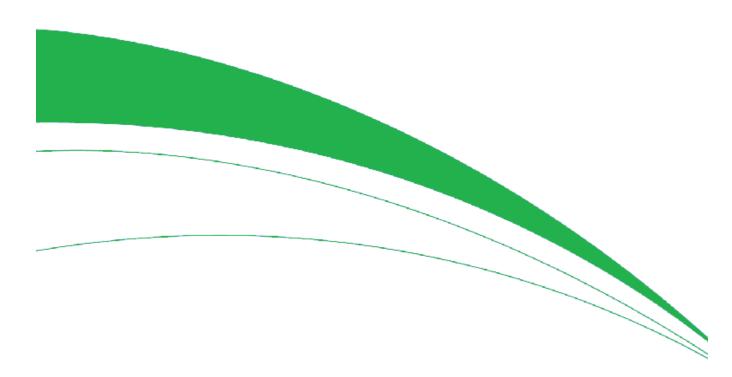
Table 20: Total	health ex	cpenditur	es 2009	-10 by pr	ovince	s and typ	e of expend	iture
Type of health expenditure	Punjab	Sindh	KP	Balo- chistan	ICT	Gilgit	Unregio- nalised	Pakistan
					Million Rs	÷.		
Military Health Expenditure	9,244	1581	1663	604	523	287	-	13,902
Federal Government(Civil)	-	-	-	-	-	-	38,568	38,568
Provincial Government	22,026	14,515	8,108	2,531	-	-	-	47,180
District Government	15,573	7,226	4,015	2,533	-	-	-	29,347
Cant. Boards	98	66	55	6	-	-	-	225
ESSI	1,900	1,032	104	73	-	-	-	3,109
Zakat Health Expenditure	157	49	38	3	2	-	553	802
PBM	273	90	67	20		6	-	456
Fed. ABs/C	-	-	-	-	-	-	7,404	7,404
Prov. ABs/C	343	380	142	8		-	-	873
Private Insurance	-	-	-	-	-	-	1,944	1,944
OOP Health Expenditure	149,565	64,606	43,095	13,866	2,090	-	-1,465 <sup>14</sup>	271,757
NGOs	6,265	11,907	7,332	2,234	-	-	_	27,738
Donors Organizations	13	3	464	17	1	21	4,579	5,098
			9	6				
Military Health Expenditure	66.49	11.37	11.96	4.34	3.76	2.06	-	100.00
Federal Government	-	-	-	-	-	-	100.00	100.00
Provincial Government	46.69	30.77	17.19	5.36	-	-	-	100.00
District Government	53.07	24.62	13.68	8.63	-	-	-	100.00
Cant. Boards	43.56	29.33	24.44	2.67	-	-	-	100.00
ESSI	61.11	33.19	3.35	2.35	-	-	-	100.00
Zakat Health Expenditure	19.58	6.11	4.74	0.37	0.25	-	68.95	100.00
РВМ	59.87	19.74	14.69	4.39	0.00	1.32	-	-
Fed. ABs/C	-	-	-	-	-	-	100.00	100.00
Prov. ABs/C	39.29	43.53	16.27	0.92	-	-	-	-
Private Insurance		-	-	-	-	-	100.00	100.00
OOP Health Expenditure	55.04	23.77	15.86	5.10	0.77	0.00	-0.54	100.00
NGOs	22.59	42.93	26.43	8.05	-	-		100.00
Donors Organizations	0.26	0.06	9.10	0.33	0.02	0.41	89.82	100.00

The health expenditures of federal government's civilian part are shown in Table 20 as "unregionalized / federal". They include the vertical programs on health running across the country. Due to lack of data, they cannot be disaggregated by province. Since the disaggregated data on private health insurance is not available, this is included in the "un-regionalized/federal" category. ICT means expenditure in Islamabad area which is separate from federal government.

<sup>&</sup>lt;sup>14</sup> The lump sum reimbursement of the Private health insurance companies has been put under the un-regionalized. Due to the unavailability of the breakup by region, it could not be subtracted from gross OOP.



# 4 Private Health Care Providers Survey & Census



#### 4.1 Introduction

Health care providers constitute one of the dimensions of the National Health Accounts (NHA). They include entities that receive money in exchange for or in anticipation of producing the activities inside the health accounts boundary. Examples of health care providers are hospitals, clinics, Community Health Centers, pharmacies, private practitioners, traditional health care providers etc.

For purpose of NHA, public sector and private sector providers were distinguished as two mutually exclusive groups. Public sector providers were covered from the federal, provincial appropriation accounts and district accounts. For coverage of the private providers, mix strategy of census and survey approach was adopted. Big hospitals (≥50 beds) were covered through census while the rest of private health care providers were covered through survey approach. For both census and survey, separate questionnaires were developed considering their operating mechanisms. The combination of census and survey was carried out in Pakistan for the very first time. The response rate was quite good, for the census of big hospitals it was almost 100%, and for the survey of private health care providers it was 98%.

Estimated health expenditures incurred by both big hospitals (≥50 beds) covered in census and small hospitals (<50 beds) covered in the survey in 2009-10 amount to 25,753 million Rupees and 12,289 million Rupees respectively. For the purpose of report on private health care providers in Pakistan, both big hospitals and small hospitals have been merged in terms of number and expenditures and categorized as "Hospitals". Estimated total health expenditures for all type of private health care providers in Pakistan in FY 2009-10 are 122,048 million Rupees. Since the reference period of National Health Accounts second round report was 2007-08. Therefore, health expenditures of private health care providers had been retropolated from 2009-10 to 2007-08 by using various techniques. Retropolated expenditures of private health care providers for 2007-08 amount to 100,495 million Rupees.

#### 4.2 Methodology of the Census

For census, frame for big hospitals was developed by gathering information from all possible sources, e.g. Economic Census 2005, regional offices of Pakistan Bureau of Statistics, websites of corresponding hospitals and desk review. In census, 125 big hospitals covered across the country which were functioning in 2009-10.

A separate questionnaire was developed (see Annexure 12) and the regional offices of Pakistan Bureau of Statistics collected the information from the hospitals in their field jurisdiction. Information about expenditures in last month, 2009-10 and 2007-08 was requested. The reason to collect the information about three reference periods was that if one hospital has no old record then it would have at least the latest record. All the hospitals responded and coverage was 100%. Out of 125 hospitals, 104 hospitals provided the information about the year 2007-08 while 121 hospitals provided the information about the year 2009-10. The missing values of health expenditures for the years 2007-08 and 2009-10 were estimated.

#### 4.3 Methodology of the Survey

The survey was conducted in four province of Pakistan. A sample of 2,160 primary sampling units (PSUs) was selected and 206,587 health care providers were estimated in Pakistan for FY 2009-10. The target population consists of following eight categories of health care providers/facilities. Listing Form was developed to cover health care facilities in the selected sample areas.

- Small hospitals up to 49 beds.
- Individually run General Practitioner clinics.
- Dental clinics.
- Specialty clinics.
- Paramedics running clinics.
- Outpatient care centers.
- Laboratories and diagnostic services.
- Homeopaths, Hakeems, Tabibs and other traditional health care providers.

A single stage stratified sample design was used for this survey. Enumeration blocks in the cities /towns comprising 200-250 households and villages were primary sampling units. PBS developed urban area frame for all urban areas of four provinces. This frame had been updated during Economic Census field work in 2003-04. The information about health facilities obtained in respect of each enumeration block was used as measures of size. Similarly list of villages/mouzas/dehs resulting from 1998 Population Census was adopted as sampling frame for rural areas. The information about health facilities as collected through Economic Census 2003-04 in respect of each village/mouza/deh was used as measure of size for selecting sample from rural areas of the four provinces. The stratification was planned as follows:

- Fourteen cities of four provinces, constituted an independent stratum. The selected big cities are Karachi, Lahore, Faisalabad, Rawalpindi, Gujranwala, Multan, Sargo-dha, Sialkot, Islamabad, Bahawalpur, Hyderabad, Sukkur, Peshawar and Quetta.
- Excluding big cities from the respective administrative division of each province, the remaining cities/towns of administrative division were grouped together to form another stratum.
- All rural areas within the jurisdiction of administrative division in the four provinces were combined together to constitute an independent stratum. This is called rural areas stratum.
- Within each stratum of big cities other urban and rural areas of the four provinces four sub-strata were formulated to control variation of health care facilities. Stratum-I was called certainly stratum that in each block/villages have (25 or more) health care facilities, Stratum-II having 10-24 facilities, Stratum-III have less than10 facilities and if there is no health care facility in any block/village named Stratum-IV.

In order to generate reliable estimates of the key variables of the survey at provincial level, an exercise to fix sample size has been undertaken. The sample size was fixed at 21,884 health care facilities from 2160 sample areas (PSUs) comprising 1335 urban and 825 rural areas of the four provinces. It is expected that this sample will yield reliable estimates with the desired precision. The distribution of sample size among provinces is shown in Table 21.

Table 21: F	Table 21: Primary Sampling Units (PSUs)for sample survey of private         health care providers, 2009-10											
No. of blocks/ villages												
Province	Big Cities	Other Urban	Urban	Rural	Total							
Punjab	300	270	570	270	840							
Sindh	180	135	315	165	480							
KP	30	210	240	210	450							
Balochistan	30	180	210	180	390							
Total	540	795	1335	825	2160							

For sub-stratum-I, all blocks/villages have been selected with certainty. Probability proportional to size (PPS) method have been used to select the number of sample areas (PSUs), from the sub-strata-II &-III of all strata formulated in the urban and rural sub-universe of the four provinces. The number of health facilities available for each blocks/villages as obtained from sampling frame developed as a consequence of Economic Census 2003-04 has been used as measure of size. For stratum-IV, simple random sampling (SRS) has been used to select number of block/villages from the sub-strata of urban and rural areas of the four provinces.

Field work was initiated in October, 2010 on both census and survey parts simultaneously. A comprehensive training was imparted on definitions, concepts, terminology, sample design and methodology of survey and census. Retrieval of filled-in Questionnaires started in Nov, 2010. Every filled-in questionnaire was edited/ coded properly by a skilled team, before sending it to data processing centre for data entry. During editing/coding of questionnaires, if serious mistakes were found, they were immediately conveyed to concerned PBS regional/ field office to avoid further replication. The data quality was further ensured by field visits by National Health Accounts' team. Data processing centre generated three consecutive lists of entered data to compare it physically with the hard copies of questionnaires to avoid any discrepancy. Edit checks were developed and incorporated in the Data processing center to strengthen the error findings. The whole task was completed in record period of four months. Summary tables were generated to check the reliability of data.

21,486 health care facilities were covered in the sample of 2160 areas across Pakistan. Sampling weights were developed on the basis of single stage stratified sample design for each selected area (PSU). The reliable estimates for the 'Total health care facilities' and other variables of interest, for example total expenditures by health care providers etc., were obtained at national level by applying weights of the respective areas (PSUs).

#### 4.4 Main findings of the survey/census for 2009-10

Table 22 shows total estimated health care providers at national level worked out to be 206,712 in 2009-10. The distribution of health care providers varies among the provinces. Punjab being the most populous province leads with 63% of the total health care providers. Being the least populated province Balochistan has only 2% of the total health care providers. Sindh and Khyber Pakhtunkhwa (KP) contain 16% and 18% of health care providers respectively.

Table 22: Pri	Table 22: Private health care providers by province / region 2009-10											
Area/Region	Urban		Rural		Total							
Area/Region	Number	%	Number	%	Number	%						
Pakistan	83,689	40	123,023	60	206,712	100						
Punjab	47,005	36	83,406	64	130,411	63						
Sindh	23,642	71	9,637	29	33,279	16						
KP	11,047	29	27,052	71	38,099	18						
Balochistan	1,995	41	2,928	59	4,923	2						

The urban/rural comparison for provinces shows that Sindh has the highest percentage of the urban health care providers (71%) followed by Balochistan (41%), Punjab (36%) and KP (29%). In case of rural health care providers, KP has the highest percentage (71%) followed by Punjab (64%), Balochistan (59%) and Sindh (29%).

Table 23: Pi	rivate health	care provid	ders 2009-1	0 by type, s	ize and prov	vince
		Hospitals		Out-Patient Service	Laboratory & Diagnostic	Total
Province	big ( ≥50 beds)	small (<50 beds)	total	Providers	Service Pro- viders	Total
		N	lumber			
Pakistan	125	4,255	4,380	196,843	5,489	206,712
Punjab	66	2,610	2,676	125,171	2,564	130,411
Sindh	46	1,018	1,064	30,742	1,473	33,279
KP	11	568	579	36,205	1,315	38,099
Balochistan	2	59	61	4,725	137	4,923
			%			
Pakistan	0.1	2.0	2.1	95.2	2.7	100
Punjab	0.1	2.0	2.1	96.0	2.0	100
Sindh	0.1	3.1	3.2	92.4	4.4	100
KP	0.0	1.5	1.5	95.0	3.5	100
Balochistan	0.0	1.2	1.2	96.0	2.8	100

Table 23 shows the estimated number and percentage of health care providers by three major categories and in case of hospitals by size respectively. Expectedly, Out-patient service providers' are much more in number than 'Hospitals' and 'Laboratories and diagnostic service providers. It is estimated that, there are 125 big hospitals while 4255 small hospitals in Pakistan. For both the small and big hospitals, Punjab has the highest number, followed by Sindh, KP and Balochistan.

Table 24: Out-patient service providers 2009-10 by type and province										
Area/ Region	Individ- ually run solo clinics	Outpa- tient Centre <sup>15</sup>	Dental Clinic	Homeo- pathic Clinic	Hakeem/ Herbalist clinic	Tradition- al birth attendant/ Dai	Others	Total		
				Number						
Pakistan	96,645	916	6,443	27,819	28,985	29,445	6,590	196,843		
Punjab	47,749	541	3,865	22,584	23,402	21,264	5,766	125,171		
Sindh	19,548	99	1,214	2,241	3,062	4,169	409	30,742		
KP	26,222	258	1,230	2,830	2,225	3,049	391	36,205		
Balochistan	3,126	18	134	164	296	963	24	4,725		
			P€	ercentage						
Pakistan	49.1	0.5	3.3	14.1	14.7	15.0	3.3	100		
Punjab	38.1	0.4	3.1	18.0	18.7	17.0	4.6	100		
Sindh	63.6	0.3	3.9	7.3	10.0	13.6	1.3	100		
KP	72.4	0.7	3.4	7.8	6.1	8.4	1.1	100		
Balochistan	66.2	0.4	2.8	3.5	6.3	20.4	0.5	100		

Table 24 shows estimated number/ percentage of Out-patient service providers by type for the four provinces as well as at national level. Health care providers which only have arrangements for check-up of patients on outpatient basis and do not have the facility to admit the patients are categorized as Out-patient health service providers. For the whole Pakistan the estimated total number of Out-patient health service providers is 196,843 out of which individually run solo clinics (Allopathic clinics) have the highest share (49%) followed by Traditional birth attendant/ Dai (15%), Hakeem/Herbalist clinics (14.7%), Homeopathic Clinics (14%), Dental clinics (3.3%) and others (3.3%). Further analysis of the survey results (Table 24) with reference to provinces also finds that Punjab has the highest share (64%) of the total Out-patient service providers followed by KP (18%), Sindh (16%) and Balochistan (2%).

<sup>&</sup>lt;sup>15</sup> Outpatient centres are establishments engaged in providing allopathic outpatient services by a team of doctors, paramedical and support staff usually bringing together several specialties.

Ta	able 25: Pr	ivate hospit	als 2009-10	by kind of	ownersh	nip	
Province	NGO / NPO	Individual Proprietor- ship	Private Lim- ited Com- pany Ship Trust		Trust	Others	Total
			number				
Pakistan	529	3,328	51	309	155	8	4,380
Punjab	143	2,147	33	251	98	4	2,676
Sindh	150	841	12	21	36	4	1,064
KP	225	301	5	28	20	0	579
Balochistan	11	39	1	9	1	0	61
			Percentage				
Pakistan	12.1	76.0	1.2	7.1	3.5	0.2	100
Punjab	5.3	80.2	1.2	9.4	3.7	0.1	100
Sindh	14.1	79.0	1.1	2.0	3.4	0.4	100
KP	38.9	52.0	0.9	4.8	3.5	0.0	100
Balochistan	18.0	63.9	1.6	14.8	1.6	0.0	100

Table 25 shows the number/ percentage of hospitals by kind of ownership for the four provinces and at the national level. The estimated total number of hospitals in Pakistan is 4,380 out of which those registered as "Individual Proprietorship" are highest in number (3,328, 76%) followed by "NGO/NPO"(529, 12%), "Partnership" (309, 7%), "Trusts" (155, 3.5%), "Private Limited Company" (51, 1.2%) and "others" (8, 0.2%).In all provinces the number of hospitals registered as "Individual Proprietorship" is highest in number.

Table 26: Distribution of In-patient and out-patient visits in private hospitals2009-10 in %							
Area/ Region	Area/ Region Admissions Outpatient Visits Total						
Pakistan	7.3	92.7	100				
Punjab	5.4	94.6	100				
Sindh	11.8	88.2	100				
KP	12.3	87.7	100				
Balochistan	10.3	89.7	100				

Table 26 depicts the percentage of inpatient and outpatient visits in private hospitals. At national level 7% of the patients get admission in the hospitals and 93% of the patients visit hospital as outpatient. KP and Sindh have the highest number of admissions (12%), followed by Balochistan (10%) and Punjab (5%).

Table 27: Expenditures of private health care providers 2009-10									
Province	Hospitals	Out-Patient Service Providers							
		Million Rs.							
Pakistan	38,042	76,767	7,239	122,048					
Punjab	14,653	39,905	4,517	59,075					
Sindh	19,921	13,233	1,877	35,030					
KP	3,285	21,194	766	25,244					
Balochistan	184	2,436	79	2,699					
		%							
Pakistan	31.2	62.9	5.9	100					
Punjab	24.8	67.5	7.6	100					
Sindh	56.9	37.8	5.4	100					
KP	13.0	84.0	3.0	100					
Balochistan	6.8	90.3	2.9	100					

Table 27 shows the estimated expenditures of private health care providers and its percentage break-up by major type of service. Total expenditure incurred by all types of health care providers at national level is 122,048 million Rupees in 2009-10. Share in total expenditure from health care providers is uneven among the provinces. Punjab has the highest share of 48% while Balochistan has the smallest share of 2% of the total expenditure. Sindh and KP have share of 29% and 21% respectively.

With regard to health care providers the category 'Out-Patient Service Provider' has the highest share in expenditure (63%) followed by 'Hospitals' (31.2%) and 'Laboratory & Diagnostic Service Providers' (5.9%) at national level. Table 27 also indicates that Balochistan and KP have the highest share in expenditure with reference to out-patient service providers as compared to Punjab and Sindh. In categories of Hospitals and Laboratory & diagnostic service providers, Punjab and Sindh have higher proportion than KP and Balochistan.

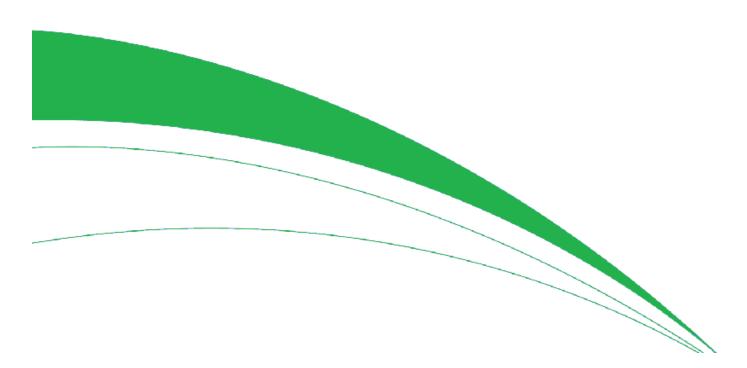
Table 28: Expenditures of private hospitals by kind of ownership 2009-10									
Province	NGO / NPO	Individual Proprietorship	Private Limited Partner- Company ship Trust		Trust	Others	Total		
			Million Rs.						
Pakistan	2,174	8,960	16,657	1,241	6,804	2,206	38,042		
Punjab	815	5,127	4,929	577	3,016	189	14,653		
Sindh	1,178	2,438	10,266	293	3,729	2,016	19,921		
KP	163	1,293	1,462	308	59	0	3,285		
Balochistan	19	102	0	63	0	0	184		
			%						
Pakistan	5.7	23.6	43.8	3.3	17.9	5.8	100		
Punjab	5.6	35.0	33.6	3.9	20.6	1.3	100		
Sindh	5.9	12.2	51.5	1.5	18.7	10.1	100		
KP	5.0	39.4	44.5	9.4	1.8	0.0	100		
Balochistan	10.1	55.5	0.0	34.4	0.0	0.0	100		

Table 28 shows the estimated expenditure and percentages of private hospitals by the kind of its ownership respectively. The highest expenditure is incurred by "Private limited company" (Rs16, 657 million, 44%) followed by "individual proprietorship" (Rs. 8,960 million, 24%). The total expenditure of Sindh (Rs. 19,921 million, 52%) is more than Punjab (PKR 14,653 million, 39%) apparently because metropolis Karachi, located in Sindh, is the hub of health facilities in Pakistan. The number of hospitals run by "Trusts" was 155 and incurring the expenditure of Rs. 6,804 million (18%). The number of "Partnerships" and "NGO/NPO" is 309 and 529 respectively but incurring only 3.3% and 6% of the expenditures. The expenditure of hospitals organized as "Private limited company" is higher than all other ownership categories. Sindh and KP have the highest expenditures in "Private limited company" while Punjab and Baluchistan have the highest expenditures in "individual proprietorship".



### **5 Out-of-Pocket Health**

## **Expenditure Survey**



#### 5.1 Introduction

In compilation of NHA the private households' out-of-pocket (OOP) health expenditure are the most crucial component to measure because of two reasons. First, it is empirically the largest source of health care financing in the developing countries. Second, it is challenging to measure as most households do not have any record on the respective expenditure and any survey's results depend on the recall quality of the households and on the way to ask.

In Pakistan the predominant survey on expenditures of private households is the Household Integrated Economic Survey (HIES). This survey includes questions on health expenditures, however, in a row with a lot of other expenditures and uniformly having the last year as the reference and recall period. In its first round (2005-06), NHA made use of this information. For the second round it was considered to ask for health expenditures with a separate questionnaire, confined to a sub-sample of the HIES and confined to two quarters, only, in order to curb the additional cost. The three advantages of this approach are as follows:

- The recall period could be curtailed to one month, considering that this is the maximum period the households can comprehensively remember their expenditures on health services.
- Additional questions could be included.
- The personal characteristics of the respective members of the household (age, sex, status and the like) could be connected by linking the OOP survey data with the HIES data, thus minimizing the additional response burden for the households.

The idea was to raise the recall period by twelve in order to arrive at expenditures for the whole year. The decision to conduct this survey was taken in 2009 when it was not possible any more to ask households for 2007-08. Therefore, the reference period was 2009-10. The HIES-questionnaire remained unchanged and still included the question of annual expenditure on health. The comparison of both results (HIES as well as its sub-sample with a dedicated questionnaire for OOP) was considered to enable the assessment of the (assumed) underreporting of OOP through HIES. The ratio of underreporting of 2009-10 should then be the yardstick for enhancing the HIES-figures on OOP for 2007-08 and for 2005-06.

The OOP survey 2009-10 was the first ever dedicated OOP survey on health expenditures in Pakistan. The sample size and households covered were the same for both HIES and OOP. HIES part of survey had two general questions about health related expenditures. One is medicines purchased<sup>16</sup> and second is doctor's fee<sup>17</sup> while in OOP part detailed health related expenditures questions were included. In HIES the recall period was one year while in OOP recall period was only one month.

<sup>&</sup>lt;sup>16</sup>HIES Code 5601 includes medicines & vitamins, medical apparatus and other equipment/supplies etc.

<sup>&</sup>lt;sup>17</sup>HIES Code 5602 includes medical fees paid to doctors, specialists, Hakeem (traditional healer) or midwives outside hospital, including medicine etc. Hospitalization charges, including fee etc. for doctors or Hakeem etc. and laboratory tests, x-Ray charges, dental care, teeth cleaning, extraction, charges, eye glasses and all others, not elsewhere classified.

#### 5.2 Questionnaire and method

The Questionnaire (see Annexure 15) was designed considering all important variables essential for detailed OOP health expenditures picture. All the questions were embedded on one page attached with HIES questionnaire. The following given variables were included in the OOP questionnaire:

- Type of Health care accessed
- Type of Health care provider
- Type of Illness
- · Reason of contact for health expenditure unrelated to illness
- Total health expenditure had been disaggregated in the following given categories:
  - Ø Parchi and Admission Fees
  - Ø Medicines/Vaccine
  - Ø Supplies/Medical durables
  - Ø Food
  - Ø Diagnostic tests
  - Ø Doctor and Staff
  - Ø Tips
  - Ø Cost of Surgery if done
  - Ø Transportation costs
  - Ø Accompanying Person Cost
  - Ø Other

The reference period for the HIES survey is 2009-10.However; the survey was conducted in 3<sup>rd</sup> and 4<sup>th</sup>quarterof fiscal year 2009/10 and started in January 2010. The recall/reference period for OOP survey was last one month from the date of enumeration.

The universe of HIES Survey consists of all urban and rural areas of all four provinces as defined by the respective Provincial Governments. Military restricted areas are excluded from the scope of the survey. A sample of 8282 households, pertaining to 279 urban and 308 rural areas, was drawn. A sample of 8200 households was considered to provide reliable estimates of the key variables at the national level. There are 3590 households reported, having no illness in recall period.

Two stage stratified random sampling scheme was adopted. All enumeration blocks selected have been treated as Primary Sampling Units (PSU's). Households as defined within the PSUs are considered as Secondary Sampling Units (SSUs).

PBS has a frame for all urban areas of Pakistan which are further divided into 200-250 households' blocks known as enumeration blocks having unique identification number. A sample for the urban areas was drawn from the latest available 2003 urban frame. From each selected enumeration block in urban areas, 12 households were enumerated.

For the rural areas, PBS has a frame consisting of villages/mouzas/dehs. In this frame, each village/mouza/deh is identifiable by its name, unique Had-Bast number and cadastral map. From each selected rural area 16 households were enumerated.

Retrieval of filled-in questionnaires was completed by the end of October, 2010. Data was edited/ coded by developing a standard check list. First the data was checked for each variable on hard copy of the questionnaire and then it was entered into MS-ACCESS database package. Different plausibility and consistency checks were applied in the software to maintain the quality of data. Tabulation plan was prepared and data was analyzed in SPSS.

Weights were developed by considering income quintiles. Area-wise weights were computed which generalize the results at national level. Per capita annual health expenditures by OOP survey were 1645 Rupees. Population of Pakistan<sup>18</sup> in 2009-10 was 171.73 million<sup>19</sup>. Population for the provinces/areas was also obtained from the same source to estimate the OOP expenditures at regional level.

#### 5.3 Main findings of the survey for 2009-10

The total Gross OOP health expenditures estimated at national level by OOP survey are 283 billion Rupees in 2009-10. Due to the short recall period of just one month a lot of households reported that during this period they had no illness and no such expenses at all. The percentages of such households were 46 % in Pakistan, 44% in Punjab, 61% in Sindh, 19% in KP and 79% in Balochistan. In the rural areas of Pakistan the ratio of households without any illness (42%) was a bit lower than in the urban areas (54%).

Table 29: Gross Out of pocket health expenditures in 2009-10 by region							
Province/Area	Billion Rs.	% Share					
Pakistan	282,563	100.0					
Punjab	154,399	54.6					
Sindh	67,097	23.8					
KP	44,572	15.8					
Balochistan	14,405	5.1					
Islamabad	2,090	0.7					

Punjab has the highest share (55%) of the total OOP health spending, followed by Sindh (24%). KP (including FATA) has 16% share while Balochistan has just 5% share of the total OOP health spending.

<sup>&</sup>lt;sup>18</sup>Population of Pakistan includes Punjab, Sindh, KPK, Balochistan and Islamabad.

<sup>&</sup>lt;sup>19</sup>National Institute of Population Studies (NIPS), Sub Group-2 on Population Projections (For the Years 2007-2030), Tenth five year people's plan 2010-15 Population Welfare.

Table 30: Type of health care accessed 2009-10 by province in %								
Province	Outpatient	Datient Inpatient Self Medication		Total				
Pakistan	90	3	8	100				
Punjab	94	3	3	100				
Sindh	97	3	0.8	100				
KP	70	3	26	100				
Balochistan	88	0.4	11	100				

Analysis of the OOP survey data finds that in Pakistan, 90% of the population availed outpatient services while only 3% received inpatient care for their illness and 8% did self medication which include all those people who are taking medicines without consultation/prescription, or all those people who are taking medicines like diabetes and high blood pressure that was already prescribed by doctors. Further analysis of data on the type of health care accessed by provinces finds that share of self medication is highest in KP (26%) followed by Balochistan (11%). The percentage share of outpatient is highest in Sindh (97%) followed by Punjab (94%), Balochistan (88%) and the lowest share is of KP (70%). For the Inpatient services, the share of all provinces are equal (3%) except Balochistan which is even on the lower side (0.4%).

Table 31: Type of health care accessed 2009-10 by sex in %							
Type of Care	Male	Female	Total				
Outpatient	29	71	100				
Inpatient	41	59	100				
Self Medication	44	56	100				

Table 31 shows that female percentage of all type of health care access is higher than male. Lack of quality reproductive health services may be one of the major reasons of higher percentage of female illness. According to MDG report<sup>20</sup> only one-third of the rural women in developing regions receive the recommended care during pregnancy.

<sup>&</sup>lt;sup>20</sup> The Millennium Development Goals Report 2010 United Nation Department of Economic and Social Affairs (DESA) June 2010.

Table 32: OOP expenditures of private households 2009-10 by category and byprovinces in %									
OOP Expenditure categories	Pakistan	Punjab	Sindh	KP	Balochistan				
Transportation costs	5.72	5.89	5.71	5.26	7.53				
Parchi and admission fees	1.92	1.59	4.55	1.16	1.16				
Medicines/Vaccine	56.54	59.65	46.37	55.25	59.20				
Supplies/Medical Durables	4.34	3.00	2.84	8.40	3.86				
Food	3.85	3.06	7.08	3.72	4.72				
Diagnostic tests	8.00	7.85	8.33	8.13	8.86				
Doctors fee	13.45	14.62	17.59	8.25	13.79				
Tips	0.09	0.13	0.01	0.06	0.00				
cost of surgery	2.55	1.71	2.27	4.75	0.04				
Accompanying person cost	1.30	0.96	1.09	2.27	0.26				
Other	2.23	1.53	4.16	2.76	0.58				
Total Expenditure	100	100	100	100	100				

Table 32 shows that in Punjab, KP and Balochistan more than 50% of the OOP expenditures were incurred on "Medicine/Vaccine" while it was 46% in Sindh. Second highest spending for all the provinces is on Doctor's fee and then the transportation cost. The reason behind the 50% spending on medicine is that, in private clinics, doctors take the charges including medicine and the value reported in the medicine cost. The high share of transportation charges highlights that health care facilities often are distant to the population. The lowest share is of tips because mostly tips are given in the hospitals at the time of new born in Pakistan. The category 'cost of surgery' is showing very low share in expenditures merely because only 3% of the population access different health care faculties for treatment as inpatient during one month recall period. Expenditures on accompanying person incur mostly in the cases of inpatient. The KP province has the highest percentage share of expenditures incurred on accompanying person.

Table 33: OOP expenditures 2009-10 by expenditure categories in %								
OOP Expenditure categories	Private	Public	Total					
Transportation costs	4.9	11.5	5.7					
Parchi and admission fees	2.0	1.1	1.9					
Medicines/Vaccine	56.1	60.0	56.5					
Supplies/Medical Durables	4.6	2.8	4.3					
Food	3.9	3.6	3.8					
Diagnostic tests	8.1	7.0	8.0					
Doctors fee	15.3	0.3	13.5					
tips	0.10	0.04	0.09					
cost of surgery	1.97	6.6	2.5					
Accompanying person cost	1.2	1.7	1.3					
other	1.8	5.5	2.2					
Total Expenditure	100	100	100					

Table 33 indicates that percentage share of "Medicine/Vaccine" in private and public sector are 56% and 60% respectively. Private and Public OOP expenditures incurred on "Doctor's fee" is 15% and 0.3% respectively. While the percentage share of OOP expenditures as "Transportation Cost" is 5% and 12% in private and public sector respectively. The high share of transportation cost (12%) shows that public health care facilities are not in the close access to the population.

Tab	Table 34: Type of health care provider assessed by the households 2009-10								
Province	Private Hospi- tal	Private Doctor clinic	Homeo- path/ ha- keem/ herbalist etc.	Phar- macy/ shops	Govt Hosp/THQ/D HQ/Tertiary/T eaching Hosp	Dispensa- ry/Maternal and child health center/ BHU/RHC	Others*	Total	
			1	ո % of popւ	lation				
Punjab	14	61	6	3	10	3	3	100	
Sindh	30	60	0.8	0.8	5	2	1	100	
KP	8	34	6	26	16	7	2	100	
Balochistan	7	39	1	11	27	14	1	100	
Pakistan	15	54	5	8	11	4	2	100	
			In	% of expend	ditures				
Punjab	37.73	46.16	3.30	0.59	9.39	0.74	2.00	100	
Sindh	45.53	49.84	1.25	0.07	0.36	2.15	0.80	100	
KP	28.30	42.22	1.65	3.57	16.57	1.49	1.91	100	
Balochistan	9.33	62.10	1.97	6.51	18.18	1.52	0.40	100	
Pakistan	36.30	45.84	2.56	1.31	10.18	0.87	1.79	100	

\* Others include other (private), other (Public) and Don't know

Note: Access to Military and Autonomous Bodies' Hospitals was 0.20 percent of population and 1.41 % of expenditures

The highest percentage in access to health care providers (54%) shows that for general inspection people prefer to go to private clinics and doctors' due to easy access and seeking quality health services. Percentage of population visited private hospital in Punjab (14%) is less than Sindh (30%), in Punjab the condition of access to government hospital/ THQ and DHQ hospital are better than in Sindh. In KP and Balochistan the percentage of access to government hospitals is more than private hospitals because people prefer to access to government hospitals due to financial constraints or to get health services at minimal cost in government hospitals.

The OOP health expenditures for access to government hospitals are lower than those for access to private hospitals because government hospitals provide the services on lower rates. Highest OOP expenditures are in the category of Private Doctor Clinics (46%) at national level. In Balochistan it was on the highest side 62% while in Punjab, Sindh and KP they are 46%, 50% and 42% respectively. The category of Homeopath/Hakeem/ herbalist have share of 2.5% in OOP health expenditures at national level.

Table 35: OOP health expenditures 2009-10 by kind of accessed sec-tor (private and public) and by province in %						
Province	Private Sector*	Public Sector	Total			
Punjab	90	10	100			
Sindh	97	3	100			
KP	78	22	100			
Balochistan	80	20	100			
Pakistan 88 12 100						

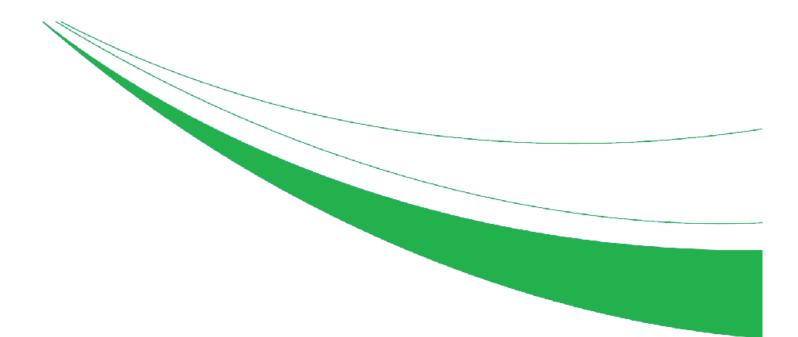
#### \* Private Sector includes Private hospitals, Private Doctor Clinic, Homeopath/ Hakeem/ herbalist etc., Pharmacy/ shops and other (private).

In Pakistan share of OOP health expenditures incurred by private sector is colossally higher than public sector. The situation in the provinces is not much different which shows the important role of private health sector across the country.

Table 36: Health expenditures 2009-10 by kind of illnesses/ incident and by province in %						
Kind of Illness / incident	Pakistan	Punjab	Sindh	KP	Balochistan	
Accident	0.87	0.98	1.11	0.42	0.00	
Physical Injury	2.32	2.08	1.67	3.46	1.16	
Poisoning including snake bites	0.24	0.32	0.03	0.15	0.00	
Diarrheal disorder (including dysentery)	7.69	7.32	9.80	6.65	21.58	
Fever (clinical malaria)	35.25	39.08	44.94	18.19	35.55	
Chest diseases	12.40	8.99	13.49	21.15	13.57	
Measles, Polio (Immunizable diseases)	0.54	0.28	0.32	1.44	0.00	
Hepatitis infections	1.93	1.79	3.69	1.22	0.49	
Woman's issue	3.76	3.90	1.75	4.52	6.76	
Eye infection/disorder	2.11	1.91	2.27	2.53	2.18	
High blood pressure	4.34	5.40	1.97	2.89	5.68	
Diabetes	3.77	3.89	4.59	3.00	1.19	
Heart disease	3.74	4.21	1.50	4.00	1.68	
Stroke	0.19	0.08	0.20	0.48	0.00	
Dental Care	0.93	0.39	2.32	1.46	2.40	
Don't know	2.13	2.29	0.59	2.74	0.86	
Other, specify*	17.81	17.08	9.77	25.70	6.91	
Total	100	100	100	100	100	

\*diseases that are not part of disaggregation for example body aches, blood cancer, Tuberculosis, Abnormality, etc. and their individual percentage is very low i.e.0.02 to 3 %

The shares of fever (clinical malaria) of 35% and chest diseases of 12% are the highest among all other illnesses. Survey data finds that high blood pressure, heart diseases and diabetes are the second common diseases that occur in all provinces. Diarrheal disorder (including dysentery) is high in Balochistan. Measles, polio (Immunizable diseases) percentage is very low as it is controlled by vaccination in Pakistan, it is a grouped category if polio will be analyzed only then the percentage tends to zero. Category of women issue is 6% in Balochistan.



# 6 Classifications and International Guidelines



## 6.1 Definitions and boundaries

The framework of health accounting has to be in line with international recommendations and classifications (of NHA) and with National Accounts as well. For these reasons, PBS is following the international guidelines of WHO and applies it tailor-made to Pakistan. The NHA-methods for the developing countries are derived from the System of Health Accounts (SHA). The SHA defines health care activities which are more focused on health services in health system.

"Activities of health care in a country comprises the sum of activities performed either by institutions or individuals pursuing, through the application of medical, paramedical and nursing knowledge and technology, the goals of:

- Promoting health and preventing disease;
- Curing illness and reducing premature mortality;
- Caring for persons affected by chronic illness who require nursing care;
- Caring for persons with health-related impairment, disability, and handicaps who require nursing care;
- Assisting patients to die with dignity;
- Providing and administering public health;
- Providing and administering health programs, health insurance and other funding arrangements<sup>21</sup>".

In SHA manual, Total Health Expenditure (THE) includes health care functions under classification codes HC.1 to HC.7 plus capital formation<sup>22</sup> by health care providers (HC.R.1). The HC.1 to HC.7 & HC.R.1 include

- HC.1 Services of curative care
- HC.2 Services of rehabilitative care
- HC.3 Services of long-term nursing care
- HC.4 Ancillary services to medical care
- HC.5 Medical goods dispensed to outpatients
- HC.6 Prevention and public health services
- HC.7 Health administration and health insurance

According to the above definitional framework, medical education and health-related professional training & research are not included in the Total Health Expenditure (THE). This definitional framework is important, when it comes to cross country comparisons.

The method recommended for developing countries by WHO gives them the liberty to include categories which are seen as integral part of the health system such as health education or health related research or training and is called "National Health Expenditure". So, Total Health Expenditure (THE) is the definitional framework provided by OECD (for international comparisons) and the National Health Expenditure (NHE) is the definition adopted by any particular country.

<sup>&</sup>lt;sup>21</sup> Organization for Economic Co-Operation and Development (OECD), 2000, A System of Health Accounts Version 1.0, pp. 42.

<sup>&</sup>lt;sup>22</sup>Gross capital formation in health care industries are those expenditure that add to the stock of resources of the health care system and last more than an annual accounting period

As for NHA Pakistan, regardless of the type of the institution or the entity providing or paying for the health care activity, it is as follows:

"National health expenditure encompasses all expenditures for activities whose primary purpose is to restore, improve, and maintain health for the nation and for individuals during a defined period of time<sup>23</sup>".

NHA Pakistan comprises of the health expenditures for the four provinces (Punjab, Sindh, KP and Balochistan) and federal health expenditures, which amounts to the national health expenditures. NHA Pakistan shows health expenditure for Pakistani citizens and residents as well as spending by external agencies, like bilateral donor and UN agencies, on inputs to health care in Pakistan. This means that NHA Pakistan:

Includes:

- Health expenditures by citizens and residents temporarily abroad
- Donor spending (both cash and in-kind) whose primary purpose is the production of health and health-related goods and services in Pakistan

#### Excludes:

- Health spending by foreign nationals on health care in Pakistan (as NHA treats this as export of health services and does not include in NHA estimation) in Pakistan
- Donor spending on the planning and administration of such health care assistance

It is recommended that NHA should use the accrual method in accounting for expenditures, not the cash method. This would mean that expenditures are related to the time period during which the actual activity takes place. The accrual method uses the expenditures, which are attributed to the time period during which the economic value was created whereas the cash method refers to the expenditures, which are registered when the actual cash disbursements take place. However, the data situation in Pakistan does not yet allow for application of the accrual method. The numbers presented in the first round report and in this report of NHA are both cash-based.

## 6.2 ICHA-Classification adapted for Pakistan

The NHA classification categorizes the dimensions of health care system (namely, financing sources, financing agents, providers and functions). Each classification and category of NHA has a code. A letter code is used for the four main classifications used in NHA Pakistan. For example, financing sources are denoted by the code FS, financing agents by HF. For more details see Annexure 5 and 6.

NHA Pakistan estimates are based on the concepts and accounting framework outlined in the "Guide to Producing National Health Accounts - with special applications for low-income and middle-income countries<sup>24</sup>".Classifications for financing sources, financing agents and health care

<sup>&</sup>lt;sup>23</sup> World Health Organization, 2003, Guide to Producing National Health Accounts: with special applications for low-income and middle-income countries, pp. 20.

<sup>&</sup>lt;sup>24</sup> See WHO website, <u>http://www.who.int/nha/create/en/</u>.

providers has been prepared for Pakistan (see annexure) including the linkages between them as shown in the various matrices.

Analysis of financing sources may be of particular interest where funding for the health system is diverse or changing rapidly in response to new financing strategies. Figures on financing sources are designed to reflect some of the key policy interests in the health system as well.

FS.1 covers all public funds. It is further divided into three sub-categories. FS.1.1 captures funds generated through general government. General government in Pakistan is federal government, provincial government and district / tehsil government. The ministry of finance acts as a main source of finance for civilian and military part. The provincial governments are the main source of finance for each province. The cantonment boards are placed under district government section as they are financially autonomous and act as source of finance.

Unlike government revenues, money that is collected by government and dedicated to social security funds is not counted under category FS.1.1. Therefore employers' contributions to social security schemes are categorized as other public funds.

FS.2 covers all private funds. Here FS.2.1 covers employer funds. Similarly, household funds (FS.2.2) include household out of pocket payments, Zakat and Bait-ul-Mal.

FS.3 category is reserved for funds that come from outside the country. External resources such as bilateral and multilateral international grants as well as funds contributed by institutions and individuals outside the country are included to the extent that they are used in that current period.

The classification scheme for financing agents allows categorizing the institutions and entities that pay or purchase health care in different groups. Financing agents include institutions that pool health resource collected from different sources, as well as entities (such as household and firms) that pay directly for health care from their own resources. As with the functional classification scheme in ICHA, NHA will likely show policy relevant subcategories of financing agents under many of the two digits heading of the ICHA-HF. For example, under central government (HF 1.1.1) countries probably will add additional categories for the Ministry of Health, Ministry of Education, and other ministries and so on. The reimbursement of medical charges by other ministries/departments is included as lump sum in the category defined as "Other".

The Pakistan health care financial agents are classified into two major categories: general government and private sector. Under general government the main categories are territorial government and social security funds. In territorial government the classification code HF.1.1.1 explains the federal government part under which federal (civil) and military are categorized while, Ministry of Health, Ministry of Population Welfare and other ministries are considered in the federal civil part.

Code HF.1.1.2 covers the provincial government expenditures by provinces. Each province has been further categorized into different departments like health, population welfare, and other departments. HF.1.1.3 covers the district/tehsil/local government and cantonment boards sections. The next main category under general government is social security funds, which from Pakistan's perspective includes the social security funds channeled through ESSI (coming from the employers) and Ministry of Religious Affairs, Zakat & Ushr (coming from household Zakat contributions). HF.1.3 covers the Autonomous bodies/Corporations.

The private sector (HF.2) is classified as private health insurance, private household out of pocket payments and, if any, local / national NGOs involved in providing health services. Rest of the world funds are covered under HF.3. Most of them under official donor agencies category HF.3.1

Hopefully, in the fourth round, the classifications for compiling country health accounts would be revised as per recommended global standard document called SHA 2011.

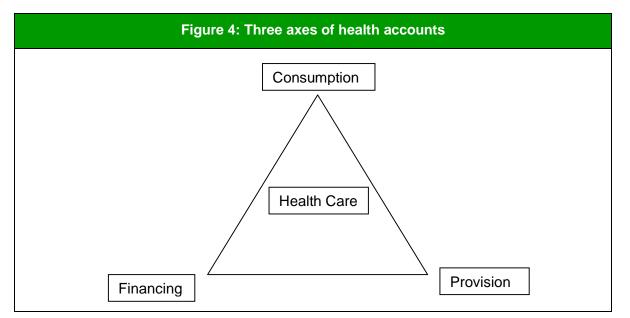
## 6.3 Revision of the System of Health Accounts

As more countries implementing NHA, the demand for improved analytic tools related to health expenditure is growing. Health accountants are encountering more expectations from policy analysts, policy makers and the general public alike for sophisticated health expenditure data. It is desirable to have data which is more reliable, timely, and comparable, both across countries and over time.

The SHA 2011 (sometimes also referred to as "SHA II" or "SHA 2") provides global standards and is expected to avoid the development of divergent methodologies for the compilation of health expenditure accounts. It shares the goal of the System of National Accounts to constitute a system of comprehensive, internally consistent and international comparable accounts, which should be compatible with other aggregate economic and social statistics as far as possible. The SHA 2011 draws on countries best practices and relevant international standards and is the result of a wideranging consultation process.

SHA 2011 has introduced a number of changes and improvements. It starts with a greater focus on health consumption expenditure, with a more detailed consideration of prevention, long-term care, and traditional medicines. It provides more comprehensive guidance on recording the financing of health expenditures through health care financing schemes and their revenues. SHA 2011 interprets financing schemes as the key components of the health financing system from the point of view of access to care, and hence connects them to providers and health care functions in the SHA's tri-axial system of consumption, provision and financing (see Figure 6).

All four components of the health system can be linked to the three axes of health accounts. Each axis is associated with specific classification, but there is no unique classification matching each axis. For example, the financing axis can equally be measured by financing schemes and financing agents. Consumption is the starting point and the goods and services consumed with a health purpose (functions) set the boundary of the health accounts. What has been consumed has been produced and provided, thus another axis is provision, and what has been consumed and provided has been financed. This means that the third axis, financing as well as the second axis on provision are measured around the consumption.



There is also a greater separation of the accounting for consumption expenditure and capital expenditure on health system to reduce the ambiguity regarding their links, resulting in a new chapter in capital formation. It also introduces some new chapters like expenditure by groups of beneficiaries according to disease, age, gender, region and socio-economic group. Building on the methodological work of the Producer Guide, there is also chapter of the factor costs of healthcare providers.

There is distinction between the developing and developed countries as far as health accounting methodology is concerned. Developed countries are using System of Health Accounts (SHA) while the developing countries are using the National Health Accounts (NHA) guideline. This distinction has been removed and the revised system of health accounts (SHA 2.0) is now the recommended Global Standard for compiling Health Accounts.

## 6.4 Charts of Accounts Classification for government finance

"The Finance Division deals with the subjects pertaining to finance of the Federal Government and financial matters affecting the country as a whole, preparation of annual budget statements and supplementary / excess budget statements for the consideration of the parliament accounts and audits of the Federal Government Organization etc. as assigned under the Rules of Business, 1973<sup>25</sup>".

The Accountant General Pakistan Revenues (AGPR) is responsible for the centralized accounting and reporting of federal transactions. Additionally the AGPR is responsible for the consolidation of summarized financial information prepared by federal self-accounting entities. The AGPR receives accounts and reports from the District Account Offices (DAOs), Provincial Accounts Offices (PAOs), Federal Treasuries and State Bank of Pakistan / National Bank of Pakistan, and provides Annual Accounts (to the AGP) and Consolidated Monthly Accounts (to the Federal Finance Division). There are AGPR sub-offices in each of the Provinces which also act as the DAO in respect of

<sup>&</sup>lt;sup>25</sup> See MOF website, <u>http://www.finance.gov.pk/</u>.

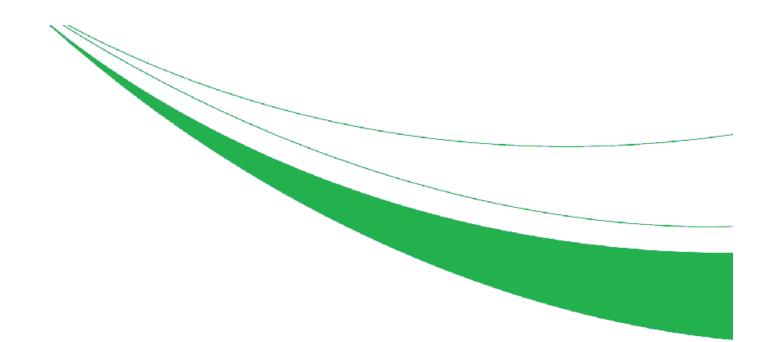
Federal Government transactions relevant to the Provincial Headquarters. The Controller General of Accounts is the administrative head of the AGPR.

The Provincial Accountant General (AG) offices, located in provincial capitals, are responsible for keeping the Provincial Accounts. The Detailed Accounts data for Federally Administered Tribal Areas (FATA) is kept with the FATA Secretariat located in Peshawar.

In December 2000, the New Accounting Model, which includes the new Chart of Accounts (CoA), was prescribed by the Auditor General of Pakistan under the Project to Improve Financial Reporting and Auditing (PIFRA). The new CoA is expected to provide a uniform basis for classification of Receipts, Expenditure, Assets, Liabilities and Equity through elements such as:

- *Entity:* The Entity element enables reporting transactions by the organizational structure or the organizational unit, which is creating a transaction.
- *Function:* The Function element provides reporting of transactions by economic function and program. The Function code is mandatory for transactions relating to expenditure. The Health Function code is 7.
- *Object:* The object element enables the collection and classification of transactions into expenditure and receipts and also to facilitate recording of financial information about assets, liabilities, and equity. The use of the object element is mandatory for all accounting transactions.
- *Fund:* The fund element is a one alpha character and identifies the fund as being the consolidated fund or public account.
- *Project:* The project element enables transactions to be aggregated and reported at a project level.

The public sector data utilized for this report classifies according to PIFRA or CoA. For PIFRA Classification (by function for health and other codes relevant to health expenditures) see Annexure 10.



## 7 Health Care System in Pakistan



## 7.1 Public sector, territorial government, civilian part

Pakistan's public health delivery system functions as an integrated health complex that is administratively managed mainly at the district level. Health services delivery is primarily a provincial matter while the Federal Government plays a supportive and coordinating role. Previously, the Ministry of Health was mandated with policy making, coordination, technical assistance, training and seeking foreign assistance. However, on June 30, 2011, under the18<sup>th</sup> constitutional amendment has been devolved leading to the transfer of powers to provincial governments. The Ministry of Health had a number of vertical public health programs such as Extended Program of Immunization, Family Planning & Primary Health Care, National Tuberculosis Control Program, National Aids Control Program etc. which are funded by the federal government but their implementation is carried out at the provincial and district levels. Table 37 gives an overview of total public health facilities 2010.

Table 37: Public health facilities in Pakistan 2010				
Туре	Number			
Hospitals	972			
Dispensaries	4,842			
Basic Health Units	5,344			
Rural Health Centres	577			
MCH Centres	909			
TB Centres	304			
Beds in hospitals & dispensaries etc.	104,137			
Population per bed	1,592			

Source: Pakistan Statistical Year Book 2011 and Pakistan Economic Survey 2009-10

The health care provision which is a provincial subject is divided into primary, secondary and tertiary health care:

- *Primary health care* is implemented through Basic Health Units (BHUs), Rural Health Centers (RHCs), Maternal and Child Health Centers (MCHCs) and Dispensaries.
- Secondary health care includes first and second level referral facilities providing acute, ambulatory and inpatient care through Tehsil Headquarter Hospitals (THQs), and District Headquarter Hospitals (DHQs). Tehsil Headquarter Hospitals (THQs), and District Headquarter Hospitals (DHQs) covers 100,000 to 300,000 and 1-2 million persons respectively<sup>26</sup> the primary and secondary health care constitutes the District Health System.
- *Tertiary health care* is provided through major hospitals with specialized facilities which are under the administrative jurisdiction of provinces.

Annexure 2 describes the provincial system of health care in a scheme. Annexure 3 gives a schematic overview of the overall health care system in Pakistan with public and private sector as its two main components. The public sector can further be subdivided into federal government, provin-

<sup>&</sup>lt;sup>26</sup>Health System Profile – Pakistan, as cited above

cial governments and autonomous bodies of both of them. For the federal government Ministry of Health and Ministry of Defense are the main stakeholders. The private sector is subdivided into five categories of health care providers.

## 7.2 Military health care system, cantonment boards, autonomous bodies

The provision of medical services in military setup is the responsibility of the Army Medical Corps. Their overall responsibilities include maintaining and promotion of health and prevention of diseases, provision of care and treatment to sick and wounded, rapid collection and speedy evacuation of casualties in the field from Forward Defended Localities for life and limb saving surgery at Forward Treatment Centre / Field Hospital / Base Hospital, supply and replenishment of medical equipment and stores and provision of skilled and expert treatment in the base hospitals / centres of excellence. The population covered by military health care system includes serving soldiers, families, parents, retired soldiers, civilians paid from defen+/ ce estimates and civilian non-entitled.

Annexure 4 categorizes the military health care system according to the services provided (preventive or curative) and to the groups of beneficiaries (military personnel exclusively or their dependents also or even the general public at large). The perception that Fauji Foundation is the corporate face of Army is not correct and in fact it is a private charitable trust. The Government of Pakistan, Ministry of Health, Labour, Social Welfare and Family Planning, vide Notification No SR 395 (K) 72 dated 8 March 1972 registered a Scheme of Administration for Fauji Foundation under the Charitable Endowment Act 1890 thus retaining its status as a private trust. It neither receives any subsidy from the government of Pakistan nor gives any financial support to army<sup>27</sup>.

Military Lands & Cantonment Department is an attached department of Ministry of Defence. There are 43 cantonment Boards in Pakistan. Geographically, 22 Cantonment Boards are in Punjab, 8 in Sindh, 9 in KP, and 4 in Balochistan. They have hospitals / dispensaries providing health care to their employees as well as to the residents of the respective Cantonments. Each Cantonment Board has financial autonomy.

Autonomous bodies/corporations are set up in the public sector under an act of legislation or ordinance (subject to legislative approval) to perform regulatory, operational, corporate, promotional, research and developmental functions. They may provide health services to their employees through the following means:

- Health care through their own health facilities
- Provision of medical allowance to their employees
- Reimbursement of medical bills.
- Provision of health insurance to their employees.

<sup>&</sup>lt;sup>27</sup> Fauji Foundation, Pakistan. Accessed at: <u>http://www.fauji.org.pk/Webforms/Legal.aspx</u> Date accessed: 17/11/2009

## 7.3 Social protection in Pakistan

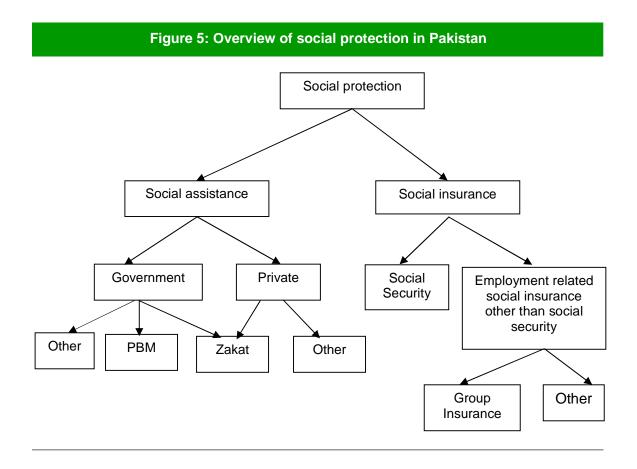
In common language as well as in many technical texts the terms "social protection", "social assistance", "social security" and "social insurance" often are mixed up. Figure 7 intends to give some clarification in that regard. Social protection is defined as "the set of policies and programs designed to reduce poverty and vulnerability by promoting efficient labor markets, diminishing people's exposure to risks, and enhancing their capacity to protect themselves against hazards and interruption/loss of income<sup>28</sup>".

In United Nations' Classification of the Functions of Government (COFOG) social protection besides of health care covers sickness and disability, old age, survivors, unemployment and some other issues of social exclusion<sup>29</sup>. Social protection has its two components social insurance and social assistance<sup>30</sup>. Social assistance can further be classified into private and governmental social assistance (see Figure 5).In Pakistani context, Zakat is one of the important forms of social assistance. In addition to Zakat there are other forms of social assistance in Pakistan such as social assistance in kind, welfare services etc. Zakat can further be broken down into governmental and private Zakat. In this context, of course, social assistance and social insurance matter with regard to their fraction related to health expenditure, only.

<sup>&</sup>lt;sup>28</sup> Asian Development Bank. Social Protection, Official Policy Paper. July 2003. Available at <u>http://www.adb.org/documents/policies/social\_protection/#contents</u>. Accessed 15 January 2009.

<sup>&</sup>lt;sup>29</sup> COFOG is available on website United Nations Statistics Department (UNSD)

<sup>&</sup>lt;sup>30</sup>ADB, Social Protection Strategy Development Study, Social Protection, Final Report Vol. 1: Social Protection.



In this section, the primary focus would be on the social security and Zakat while the private health insurance (including employment related social insurance) would be dealt with in private sector, in section8.5.

## 7.3.1 Employees social security institutions

The risk of getting sick can be covered by private health insurance or by social insurance. Social insurance is not easy to define. According to the United Nations' System of National Accounts 2009 (par. 17.84) a social insurance scheme is an insurance scheme where the following two conditions are satisfied:

- the benefits received are conditional on participation in the scheme and constitute social benefits as this term is used in the SNA; and
- $\circ\,$  at least one of the following three conditions is met:
  - Participation in the scheme is obligatory either by law or under the terms and conditions of employment of an employee, or group of employees;
  - The scheme is a collective one operated for benefit of a designated group of workers, whether employed or non-employed, participation being restricted to members of that group;
  - An employer makes a contribution (actual or imputed) to the scheme on behalf of an employee, whether or not the employee also makes a contribution.

Those participating in social insurance schemes make social contributions to the schemes and receive social benefits. In Pakistan, a social insurance system exists in the form of social security since 1967, though it is very limited in scope and area. Social security in Pakistan provides only an umbrella of social health protection for a selected segment of the population covering no more than 5% of total population<sup>31</sup>.

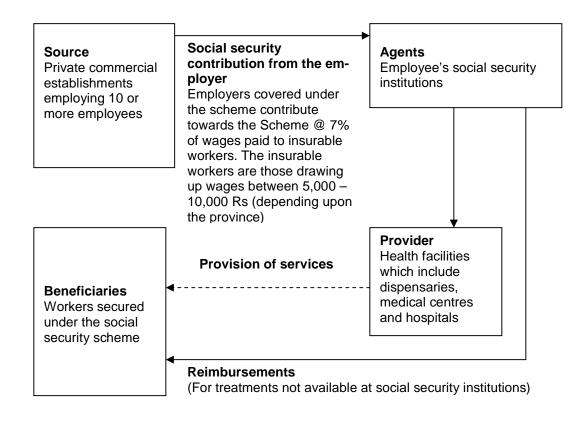
These Social Security Institutions (Employees Social Security Institutions "ESSI') are present in all the four provinces and are provincial autonomous bodies attached to respective provincial Department of Labour. These institutions cover areas such as sickness, maternity, work injury, invalidity and death benefits. However, their primary focus is on provision of medical care to the employees of private industries and commercial establishments employing 5 to 10 or more employees (depending upon the province). The coverage is provided to the employees of these establishments drawing monthly wages up to 5,000 -10,000 Rs, depending upon the province<sup>32</sup> (Figure 6). The workers and their dependents are entitled to medical care from the first day of the employment. The dependents include wife, dependent parent and any unmarried children up to 21 years. Other categories of employees, such as day labourers and agricultural workers (Informal Sector) are excluded yet. For providing medical care to the secured workers, the provincial social security institutions have a network of hospitals, dispensaries, treatment centers; qualified doctors, paramedical staff, ambulances etc.

These services are provided free to the employees as their employer pays these contributions. Employers covered under the scheme contribute towards the scheme at the rate of 7% of their wages paid to insurable workers. The secured employees incur no deduction, co-payment, or any other cost in order to avail these services. They can avail these services after proper registration from the department and after qualifying a period of 3 months.

<sup>&</sup>lt;sup>31</sup> ADB TA 4155-Pak, Social protection strategy development study, Vol:II, Health Insurance, 2004, 26.

<sup>&</sup>lt;sup>32</sup> Naushin Mahmood, Zafar Mueen, Pension and Social Security Schemes in Pakistan: Some Policy Options. PIDE Working Paper, 2008:42.

## Figure 6:Social security system in Pakistan



Adapted from: Health System Profile - Pakistan. Regional Health System Observatory-EMRO, World Health Organization, 2007

## 7.3.2 Zakat managed by government

Zakat system in Pakistan can be divided generally into two major components<sup>33</sup> namely private Zakat (which is included in the philanthropic section 7.6) and governmental Zakat. The governmental system was introduced through "Zakat and Ushr Ordinance 1980<sup>34</sup>".The benefits are targeted at the poorest. The main systems providing social assistance benefits are Zakat and Bait-ul-Mal<sup>35</sup>. Zakat fund is utilized for assistance to the needy, the indigent and the poor particularly orphans and widows, the handicapped and the disabled.

The system relies on mandatory Zakat deduction at the rate of 2.5% from the value of following 11 categories of assets:

- § Saving bank accounts
- § Notice deposit receipts and accounts

<sup>&</sup>lt;sup>33</sup> ADB, Social Protection Strategy Development Study, Social Protection, Final Report Vol. 1: Social Protection, 34ff.

<sup>&</sup>lt;sup>34</sup>Zakat & Ushr Ordinance, 1980, (NO. VIII of 1980).

<sup>&</sup>lt;sup>35</sup> ADB, as cited above, 34ff.

- § Fixed deposit receipts and accounts (e.g. Khas Deposit Certificate)
- § Saving/ deposit certificates (e.g. Defence Saving Certificates, National Deposit Certificates)
- § Units of the National Investment Trust
- § ICP Mutual Fund Certificates
- § Government Securities (other than prize bonds)
- **§** Securities including shares and debentures
- § Annuities
- § Life insurance policies
- § Provident funds

## 7.3.3 Pakistan Bait ul-Mal

Pakistan Bait-ul-Mal (PBM), an autonomous body set up through an Act in 1991 works under the umbrella of Ministry of Social Welfare and Special Education. PBM is significantly contributing toward poverty alleviation through its various services focused on the poorest of the poor and providing assistance to destitute, widow, orphan, invalid, infirm & other needy persons, as per eligibly criteria approved by Bait-ul-Mal Board. They also spend money on health in various forms:

- Through Individual Financial Assistance (IFA) the poor, widows, destitute women, orphans and disabled persons are supported through general assistance, education, medical treatment and rehabilitation. The financial assistance for health is dedicated for the Medical treatment of major ailments and disabilities of the poor patients. The financial ceiling for medical treatment is 300,000Rs.
- The regular portion of Bait-ul-Mal's money, dedicated for health, is the IFA for medical treatment. In addition, it has supported (not as a regular activity) in the past the establishment of the new health care facilities. For instance, it has supported the opening of a drug and diagnostic centre in KP and also supported the construction of a burn and reconstructive surgery centre in Lahore.
- PBM also has a project named Institutional Rehabilitation which basically provides support to registered NGOs under following three strategies
  - Strategy-I:Institutional support for the poor: Sharing of capital cost by Pakistan Bait ul Mal (PBM) at the ratio 50% and 50% share of NGO.
  - Strategy-II: Free eye care for cataract operations: Technical committee assists PBM in selecting suitable NGOs. Actual expenses of cataract operations provided on annual /quarterly basis
  - Strategy-III: Innovative Pilot Project, PBM-NGO's partnership for 3 to 5 years. Sharing of capital cost and recurring expenses 50% NGO

## 7.4 Private healthcare facilities

The private health care facilities are quite diverse and have generally grown unregulated. There are no standardized or classified health facilities in the private sector. The private sector generally exists in the form of:

- Major hospitals with specialized health facilities;
- Other hospitals with variable quality / level of services;
- Individually run clinics / general practitioners including dental and eye care. These clinics are either owned by a single person who is the sole proprietor of the facility or they are run on partnership basis;

- Homeopaths, hakeems, tabibs and other traditional health providers;
- Health care facilities from NGOs including the philanthropic organizations;
- Ambulatory health services;
- Pharmacies and
- Opticians.

Considering that 87.6% of the population access healthcare from the private sector and 12.3% from public sector, it is vital to estimate the health expenditures in private sector. In principle, this can be done using demand-sided (patients or households) or supply-sided (health care providers) approaches or both. In first round of NHA Pakistan the demand-sided approach was applied on household data. In the second and third rounds of NHA Pakistan, the same approach has been adopted by getting data from the specialized Out of Pocket Health Care Expenditure Survey conducted by PBS. For the results see Chapter 5.

## 7.5 Private health insurance

Health insurance is categorized under the non-life insurance and there are about 52 insurance companies in non-life insurance sector in Pakistan<sup>36</sup>. Group health insurance is offered by 6 or 7 insurance companies and individual health insurance by one insurance company<sup>37</sup>. The Securities and Exchange Commission of Pakistan (SECP) under the Insurance Ordinance 2000 took over as the formal regulator of the insurance industry. The SECP has provided the data on insurance premiums and insurance claims for health for the years 2004 to 2010.

## 7.6 Philanthropic / Non-Government Organizations

Philanthropy has been defined as "activities of voluntary giving and serving, primarily for the benefit of others beyond family<sup>38</sup>". The philanthropy is dedicated to health care, but not exclusively. It has broadly two components

- Services: in which the non-profit organizations are primarily involved
- Giving: individual or corporate

Philanthropy is very commonly institutionalized as non-government organizations (NGOs), also often referred to as non-profit institutions (NPIs). The NGO's are an important part of the civil society and are quite distinct from the private enterprises. Known variously as the 'non-governmental', 'voluntary', 'community based', 'charitable', 'welfare societies', this set of institutions include within it a variety of entities such as schools, hospitals, dispensaries, human rights organizations etc. Many definitions of NGOs have been put forward which add to the confusion. However, despite their diversity the NGOs share certain common features<sup>39</sup>:

- They have an institutional presence and structure;
- They are institutionally separate from the state;

<sup>&</sup>lt;sup>36</sup> Asian Development Bank. Private Sector Assessment, Pakistan. December 2008

<sup>&</sup>lt;sup>37</sup> Asian Development Bank. Technical assistance to the Islamic Republic of Pakistan for developing a social health insurance project (TAR;PAK 37359)., 2005.

<sup>&</sup>lt;sup>38</sup> Pakistan Centre for Philanthropy, Available at: <u>http://www.pcp.org.pk/</u>. Accessed on 20 Jan 2009

<sup>&</sup>lt;sup>39</sup>"Dimensions of the Non-Profit Sector in Pakistan", Social Policy and Development Centre, Working Paper No.1 (2002).

- They do not return profits to their members, managers or directors
- They control their own affairs;
- They attract some level of voluntary contribution of time or money and also membership in them is not legally required.

Pakistan Centre for Philanthropy (PCP) has been working on the regulation of the philanthropy in Pakistan with a mission to increase the volume and effectiveness of the philanthropy for social development. The PCP database includes only certified institutions. A study titled "Dimensions of the Non Profit Sector in Pakistan" was conducted by Social Policy and Development Centre in 2002 which estimated the total number of NGO/NPO in Pakistan to be 45,000 and also provided the sector wise breakdown.

Table 38 :NGO/NPO by sectors							
Sector Number In per cent							
Total	45,000	100					
Education and research	20,700	46					
Civil rights and advocacy	8,100	18					
Social services	3,600	8					
Development and housing	3,150	7					
Health	2,700	6					
Culture and recreation	2,700	6					
Religion (management of religious events)	2,250	5					
Business and professional associations 1,800							

Source: Dimensions of the Non-Profit Sector in Pakistan" Social Policy and Development Centre, Working Paper No.1 (2002

The practices of giving can broadly be divided into Individual and corporate giving. The individual giving can further be classified as zakat and non-zakat giving. As being predominantly a Muslim country, much of Pakistan's individual giving is probably in response to the teachings of Islam. The individual giving includes the obligatory (by religion) festival charity (Zakat-ul-fitr) and charitable wealth tax (Zakat-ul-mal). The zakat deducted at source by the government mentioned in the Zakat section only includes the Zakat-ul-mal. Also it is not obligatory on the citizens to give the Zakat at the Government source. They have the option of paying zakat privately on their own.

The corporate giving is also an important part of philanthropy. About 37% of the corporate sector is involved in philanthropic support to the health sector<sup>40</sup>.

It is pertinent to mention here that the health expenditures incurred by local or national NGOs involved in providing health services has been accounted for in this report while the individual philanthropies whether in cash (except for Zakat & Bait-ul-Mal) or in kind are not accounted for in this report as there is lack of national level research/data on it.

<sup>&</sup>lt;sup>40</sup> Pakistan Centre for Philanthropy. Available at: <u>http://www.pcp.org.pk/fact\_sheet.html</u>. Accessed on 20 Jan 2009

## Annexure



## Annexure 1: Data sources

Data Type	Source	Publication or official correspondence available
Out of pocket expenditure	PBS	OOP survey
Federal government	AGPR	Appropriation Accounts (Civil) Volume-1 2007-08
Provincial government	AG Office Punjab	Appropriation Accounts for the Year 2007-08 Accountant General Punjab
District data	AG-Office Punjab	District. Appropriation Accounts 2007-2008
Provincial government	AG Office Sindh	Appropriation Accounts for the Year 2007-2008 Accountant General Sindh
District data	AG-Office Sindh	District Appropriation Accounts 2007-2008
Provincial government	AG Office KP	Appropriation Accounts for the Year 2007-2008 Accountant General ,KP
District data	AG-Office KP	District Appropriation Accounts 2007-2008
Provincial government	AG Office Baluchistan	Appropriation Accounts for the Year 2007-2008 Accountant General Baluchistan
District data	AG-Office Baluchistan	District Appropriation Accounts 2007-2008
Health Insurance data	SECP	SECP (Insurance Division) Official Letter,
Donors	EAD	Received permission through e-mail for the use of EAD website www.dadpak.org
Social Security	Punjab ESSI	Data collected personally
Social Security	Sindh ESSI	Data collected personally
Social Security	KP ESSI	Data collected personally
Social Security	Balochistan ESSI	Data collected personally
Military	Military Accountant General	Data collected personally
Zakat	Ministry of Religious Affairs	Data collected personally
Autonomous bodies/Corporations	PBS	Census of Autonomous Bodies
Provincial employees	Finance department Punjab	Data collected personally
Provincial employees	Finance department Sindh	Figure given on official website
Provincial employees	Finance department KP	Data collected through mail
Provincial employees	Finance department Balochistan	Data collected through mail

#### **Annexure 2: Literature**

- Asian Development Bank TA 4155-Pak, Social protection strategy development study, Vol:II, Health Insurance, 2004.
- Asian Development Bank, Social Protection Strategy Development Study, Social Protection, Final Report Vol. 1: Social Protection.
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- Ministry of Health: <u>http://www.health.gov.pk/</u>. Accessed on 14 March 2009.

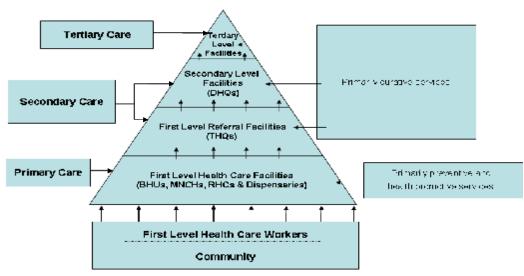
Ministry of Health, Drug Control Organization. Link: http://www.dcomoh.gov.pk/about/overview.php.

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- World Health Organization National Health Accounts Series, Pakistan: National Expenditure on Health, 2010. Link:<u>http://apps.who.int/nha/database/Standard</u>.
- WHO, Guide to Producing National Health Accounts: with special application for low income and middle income countries, 2003.

Zakat & Ushr Ordinance, 1980 (NO. VIII of 1980).

## **Annexure 3: Structure of Provincial Health Care**



Adapted from: S Siddiqi et al. The effectiveness of patient referral in Pakistan. Health Policy and Planning; 16 (2): 193 – 198

*Primary health care* is implemented through Basic Health Units (BHUs), Rural Health Centres (RHCs), Maternal and Child Health Centers (MCHCs) and Dispensaries.

A *Basic Health Unit (BHU)* covers 10000 to 15000 populations and 5 - 10 BHUs are attached to a Rural Health Centre (RHC)<sup>41</sup>. It mainly provides health preventive and health primitive services such as maternal and child health services, immunization, diarrheal disease control, malaria control, child spacing, mental health, school health services, prevention & control of locally endemic diseases, and provision of essential drugs.

A *Rural Health Center (RHC)* covers 25,000 to 50,000 populations. It mainly provides preventive and health primitive services, also curative services for common illnesses.

Maternal and Child Health Centers (MCHCs) are part of the integrated health system focusing on the maternal and child health.

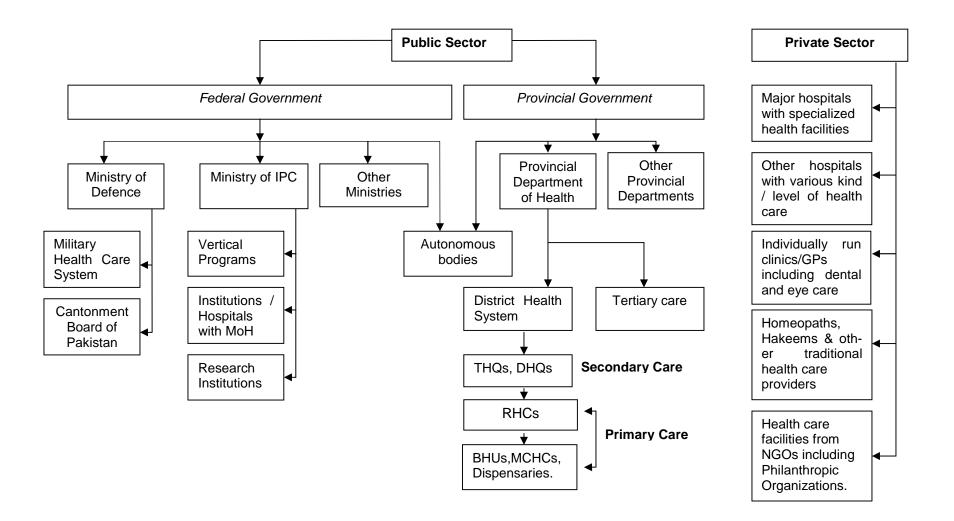
Secondary health care includes first and second level referral facilities providing acute, ambulatory and inpatient care provided through Tehsil Headquarter Hospitals (THQs), and District Headquarter Hospitals (DHQs). The primary and secondary health care constitutes the District Health System. Tehsil Headquarter Hospitals (THQs), and District Headquarter Hospitals (DHQs) covers 100,000 to 300,000 and 1-2 million persons respectively<sup>42</sup>.

*Tertiary health care* is provided through major hospitals with specialized facilities which are under the administrative jurisdiction of provinces.

<sup>&</sup>lt;sup>41</sup>Health System Profile – Pakistan, Regional Health System Observatory- EMRO, World Health Organization, 2007.

<sup>&</sup>lt;sup>42</sup>Health System Profile – Pakistan, as cited above

## Annexure 4: Schematic overview of Health Care System



## **Annexure 5: Military Health Care System**

Primary Care			Second	lary Care	Tertiary Care
Curative services mainly	Preventive and curative services	Preventive services mainly	Curative services mainly	Curative Serv	ices mainly
Medical Battalion	Military Recep- tion	Garrison Medical Centers	Military- Hospital	Combined Military- Hospital (CMH)	Tertiary Care
	Centers			Class "A", Class "B", Class "C", & Class "D" CMH	AFIRM, AFIU, AFBMTC, AFID, AFIT,
Provide Services to Military personnel in field	Provide s exclusively to personal depen	o the Military and their	Provide health services to Pakistan Army, their de-	Equal to Secondary level health care facility	AFIP, AFIC
				Provide health of the Armed dependents ar eral p	Forces, their nd to the gen-

	Secondary health care in military						
Health facility	Number	Beds per facility	Function	Population			
Class "A" CMHs*	10	500 & above					
Class "B" CMHs*	9	300-400	Primarily	All of the Armed Forces, their dependents			
Class "C" CMHs*	11	51-200	curative and the general public	and the general public			
Class "D" CMHs*	14	50 & below					
Military Hospital	1	1000	Primarily curative	Pakistan Army, their dependents and the general public			

Note: \*CMH = Combined Military Hospital

Source: Centcom information portal. Extranet Surgeon General. CRMS 2007 Post Conference. Link: <u>http://www2.centcom.mil/sites/sg/CRMS%202007%20Post%20Conference/Presentation%20Day%20</u> <u>2/1%20Pakistan%20Army%20Medical%20Corps.ppt#317,6,Organization of the Medical Services</u> <u>Accessed on 14 March 2009</u> Primary Health Care Centres consist of ...

#### Medical Battalion

They collect, treat and evacuate casualties from Regimental Aid Post (RAP) to Advance Dressing Stations (ADS) / Forward Treatment Centre (FTC) for provision of essential life saving surgical and dental treatment.

#### Field Medical Units

These units include Medical Inspections Rooms / Medical Reception Centres & Garrison Medical Centres. These units are responsible for:

- Medical support to deployed elements of formations
- Preventive health measures in formations
- Medical support for all training activities
- Participation in collective training exercises
- Unit level training cycles
- National commitments including vaccination campaigns and medical relief in aid to disasters / calamities
- International commitments including Hajj and UN missions

Both the Medical Battalion & the Field Medical Units deliver the health services exclusively to the military personnel.

#### Secondary Health Care Centres

The secondary health care facilities include the Combined Military Hospitals (CMHs) which are further categorized as Class "A", Class "B", Class "C" as well as Class "D" hospitals depending upon the number of beds and facilities available. At Rawalpindi there is also a military hospital (MH).

The CMHs provide health services to all of the Armed Forces, their dependents, retired soldiers, civilians paid from defence estimates and to the non entitled civilians. The Military Hospital provides services only to the Pakistan Army, their dependents and to the non entitled civilians.

#### Tertiary Health Care Centres

The tertiary health care is constituted of some state of the art institutes with modern health care facilities which include

- Armed Forces Institute of Cardiology (AFIC)
- Armed Forces Institute of Pathology (AFIP)
- Armed Forces Institute of Transfusion (AFIT)
- Armed Forces Institute of Dentistry (AFID)
- Armed Forces Bone Marrow Transplant Centre (AFBMTC)
- Armed Forces Institute of Urology (AFIU)
- Armed Forces Institute of Rehabilitation Medicine (AFIRM)

The Army Medical Corps also has international commitments, as they participate in the UN medical missions and relief missions to foreign countries.

## Annexure 6: ICHA classification financing sources (FS)

FS.1 Public funds

FS.1.1 Territorial government funds

FS.1.1.1 Central government revenue

FS.1.1.2 Regional and municipal government revenue

FS.1.2 other public funds

FS.1.2.1 Return on assets held by a public entity

FS.1.2.2 Other

#### FS.2 Private Funds

FS.2.1 Employer funds

- FS.2.2 Household funds
- FS.2.3 Non-profit institutions serving individuals
- FS.2.4 other private funds

FS.2.4.1 Return on assets held by a private entity

FS.2.4.2 Other

FS.3 Rest of the world funds

## Annexure 7: ICHA classification financing agents (HF)

- HF.1 General Government
  - HF.1.1 Territorial government
    - HF.1.1.1 Central government
    - HF.1.1.2 State/provincial government
    - HF.1.1.3 Local/municipal government
  - HF.1.2. Social security funds
  - HF.1.3. Autonomous Bodies/Corporation

### HF.2 Private Sector

- HF.2.1 Private social insurance
- HF.2.2 Other private insurance
- HF.2.3 Private Households' out-of-pocket payment
- HF.2.4 Non-profit institutions serving households (other than social insurance)
- HF.2.5 Private Firms and corporations (other than health insurance)

HF.3 Rest of the world

## Annexure 8: ICHA classification for health care providers (HP)

HP.1	Hospitals
HP.1.1	General hospitals
HP.1.2	Mental health and substance abuse hospitals
HP.1.3	Specialty (other than mental health and substance abuse) hospitals
HP.1.4	Hospitals of non-allopathic systems of medicine (such as Chinese, Ayurvedic, etc.)
HP.2	Nursing and residential care facilities
HP.2.1	Nursing care facilities
HP.2.2	Residential mental retardation, mental health and substance abuse facilities
HP.2.3	Community care facilities for the elderly
HP.2.9	All other residential care facilities
HP.3	Providers of ambulatory health care
HP.3.1	Offices of physicians
HP.3.2	Offices of dentists
HP.3.3	Offices of other health practitioners
HP.3.4	Outpatient care centres
HP.3.4.1	Family planning centres
HP.3.4.2	Outpatient mental health and substance abuse centres
HP.3.4.3	Free-standing ambulatory surgery centres
HP.3.4.4	Dialysis care centres
HP.3.4.5	All other outpatient multi-specialty and cooperative service centres
HP.3.4.9	All other outpatient community and other integrated care centres
HP.3.5	Medical and diagnostic laboratories
HP.3.6	Providers of home health services
HP.3.9	Other providers of ambulatory health care
HP.3.9.1	Ambulance services
HP.3.9.2	Blood and organ banks
HP.3.9.3	Alternative or traditional practitioners
HP.3.9.9	All other ambulatory health services
HP.4	Retail sale and other providers of medical goods
HP.4.1	Dispensing chemists
HP.4.2	Retail sale and other suppliers of optical glasses and other vision products
HP.4.3	Retail sale and other suppliers of hearing aids
HP.4.4	Retail sale and other suppliers of medical appliances (other than optical glasses and hearing aids)
HP.4.9	All other miscellaneous sale and other suppliers of pharmaceuticals and medi- cal goods
HP.5	Provision and administration of public health programmes
HP.5.1	National Program for Family Planning and Primary Health Care

- HP.5.2 Expanded Program of Immunization (EPI), Control of Diarrheal Disease
- HP.5.3 Enhance HIV / AIDS Control Program
- HP.5.4 Improvement of Nutrition Through PHC Islamabad
- HP.5.5 Roll Back Malaria Islamabad
- HP.5.6 National TB Control Program
- HP.5.7 Prime Minister's Program for Prevention and Control of Hepatitis NIH Islamabad
- HP.5.8 National Program for Prevention and Control of Blindness NIH Islamabad
- HP.5.9 National MNCH Program NIH Islamabad
- HP.5.10 National Program for Prevention and Control of Avian Pandemic Influenza NIH
- HP.6 General health administration and insurance
- HP.6.1 Government administration of health
- HP.6.2 Social security funds
- HP.6.3 Other social insurance
- HP.6.4 Other (private) insurance
- HP.6.9 All other providers of health administration
- HP.7 All other industries (rest of the economy)
- HP.7.1 Establishments as providers of occupational health services
- HP.7.2 Private households as providers of home care
- HP.7.3 All other industries as secondary producers of health care
- HP.8 Institutions providing health-related services
- HP.8.1 Research institutions
- HP 8.2 Education and training institutions
- HP.8.3 Other institutions providing health-related services
- HP.9 Rest of the world
- HP.nsk Provider not specified by kind

## Annexure 9: ICHA classification for health care functions (HC)

- HC.1 Services of curative care
- HC.1.1 Inpatient curative care
- HC.1.2 Day cases of curative care
- HC.1.3 Outpatient curative care
- HC.1.3.1 Basic medical and diagnostic services
- HC.1.3.2 Outpatient dental care
- HC.1.3.3 All other specialized medical services
- HC.1.3.4 All other outpatient curative care
- HC.1.4 Services of curative home care
- HC.2 Services of rehabilitative care
- HC.2.1 Inpatient rehabilitative care
- HC.2.2 Day cases of rehabilitative care
- HC.2.3 Outpatient rehabilitative care
- HC.2.4 Services of rehabilitative home care

- HC.3 Services of long-term nursing care
- HC.3.1 Inpatient long-term nursing care
- HC.3.2 Day cases of long-term nursing care
- HC.3.3 Long-term nursing care: home care
- HC.4 Ancillary services to medical care
- HC.4.1 Clinical laboratory
- HC.4.2 Diagnostic imaging
- HC.4.3 Patient transport and emergency rescue
- HC.4.9 All other miscellaneous ancillary services
- HC.5 Medical goods dispensed to outpatients
- HC.5.1 Pharmaceuticals and other medical nondurables
- HC.5.1.1 Prescribed medicines
- HC.5.1.2 Over-the-counter medicines
- HC 5.1.3 Other medical nondurables
- HC.5.2 Therapeutic appliances and other medical durables
- HC.5.2.1 Glasses and other vision products
- HC.5.2.2 Orthopedic appliances and other prosthetics
- HC.5.2.3 Hearing aids
- HC.5.2.4 Medico-technical devices, including wheelchairs
- HC.5.2.9 All other miscellaneous medical goods
- HC.6 Prevention and public health services
- HC.6.1 Maternal and child health; family planning and counseling
- HC.6.2 School health services
- HC.6.3 Prevention of communicable diseases
- HC.6.4 Prevention of non-communicable diseases
- HC.6.5 Occupational health care
- HC.6.9 All other miscellaneous public health services
- HC.7 Health administration and health insurance
- HC.7.1 General Government administration of health
- HC.7.1.1 General Government administration of health (except social security)
- HC.7.1.2 Administration, operation and support of social security funds
- HC.7.2 Health administration and health insurance: private
- HC.7.2.1 Health administration and health insurance: social insurance
- HC.7.2.2 Health administration and health insurance: other private
- HC.nsk HC expenditure not specified by kind
- HC.R.1-5 Health-related functions
- HC.R.1 Capital formation for health care provider institutions
- HC.R.2 Education and training of health personnel
- HC.R.3 Research and development in health
- HC.R.4 Food, hygiene and drinking-water control
- HC.R.5 Environmental health
- HC ns R HC.R expenditure not specified by kind

Major	Major Function		Minor Function		Detailed Function		Sub-Detail Function		
No.	Descrip- tion	No.	Description	No.	Description	No.	Description		
		071	Medical Products, Appliances and	0711	Medical Products, Appliances and	071101	Medical Products, Appliances and Equipment		
			Equipment		Equipment	071102	Drug Control		
				0721	General Medical Services	072101	General Medical Services		
		072	Outpatients	0722	Specialized Medical Services	072201	Specialized Medical Services		
			Services	0723	Dental Services	072301	Dental Services		
				0724	Paramedical Services	072401	Paramedical Services		
				0731	General Hospital Services	073101	General Hospital Services		
		073	Hospital Services	0732	Special Hospital Services	073201	Special Hospital Services (mental hospital)		
		073		0733	Medical and Maternity Centre Services	073301	Mother and Child Health		
				0734	Nursing and Convalescent Home Services	073401	Nursing and Convalescent Home Services		
		Health 074		0741	Public Health Services	074101	Anti-malaria		
07	Health					074102	Nutrition and other hygiene programs		
						074103	Anti-tuberculosis		
						074104	Chemical Examiner and laboratories		
			Public Health			074105	EPI (Expanded Program of Immunization)		
			Services			074106	Preparation and dissemination of Information on Public Health matters		
						074107	*Population Welfare Measures		
						074120	Others (other health facilities and preventive measures)		
						075101	R & D of Unani Medicines		
		075	75 R & D Health	0751	R & D Health	075102	Specific Health Research Projects		
						076101	Administration		
		076	Health Administration	0761	Administration	093102	Professional / technical univer- sities / colleges / institutes		

## Annexure 10: Functional Classification (by PIFRA)

Objec	Object Classification								
No.	Object Classification	Sub classification	Sub detailed Classification						
A04	Employees Retirement Benefit								
		<ul> <li>A041-06 Reimbursement of Medical Charges to Pensioners</li> <li>A041-11 Travelling Allowance for Retired Government Servants in connection with journey on Medical Grounds</li> </ul>							
A01	Employee Related Expenses	A012- Allowances							
			A012-1 – Regular Allowance A01217 – Medical Allowance A01252 – Non Practicing Allowance A01254– Anaesthesia Allowance						
			<b>A012-2</b> Other Allowance (excluding T.A) <b>A012-74</b> – Medical Charges						

Products	Total	Retail sales /purchases	Doctor's purchases	Private hospital pharmacy				
July 2008 to June 2009 (million Rs.)								
Total	107,372	96,396	6,772	4,204				
A - ALIMENTARY T.& METABOLISM	22,994	21,069	1,131	794				
B - BLOOD + B.FORMING ORGANS	3,305	2,940	203	162				
C - CARDIOVASCULAR SYSTEM	7,594	7,211	190	193				
D - DERMATOLOGICALS	3,688	3,397	202	89				
G - G.U.SYSTEM & SEX HORMONES	3,286	2,954	187	145				
H - SYSTEMIC HORMONES	1,110	960	91	59				
J - SYSTEMIC ANTI-INFECTIVES	28,554	24,406	2,703	1,444				
K - HOSPITAL SOLUTIONS	579	517	25	37				
L- ANTINEOPLAST +IMMUNOMODUL	2,561	2,052	303	205				
M - MUSCULO-SKELETAL SYSTEM	7,595	6,917	393	286				
N - NERVOUS SYSTEM	10,400	9,567	495	338				
P - PARASITOLOGY	3,303	3,041	192	69				
R - RESPIRATORY SYSTEM	8,157	7,663	308	185				
S - SENSORY ORGANS	2,096	1,699	286	112				
T - DIAGNOSTIC AGENTS	63	35	8	20				
V - VARIOUS	2,085	1,968	53	64				
July 2007 to .	June 2008 (m	illion Rs.)						
Total	91,247	81,919	5,755	3,572				
A - ALIMENTARY T.& METABOLISM	19,541	17,905	961	675				
B - BLOOD + B.FORMING ORGANS	2,809	2,498	173	138				
C - CARDIOVASCULAR SYSTEM	6,454	6,128	162	164				
D - DERMATOLOGICALS	3,134	2,887	172	75				
G - G.U.SYSTEM & SEX HORMONES	2,793	2,510	159	123				
H - SYSTEMIC HORMONES	943	816	77	50				
J - SYSTEMIC ANTI-INFECTIVES	24,266	20,741	2,297	1,227				
K - HOSPITAL SOLUTIONS	492	439	21	32				
L- ANTINEOPLAST +IMMUNOMODUL	2,176	1,744	258	175				
M - MUSCULO-SKELETAL SYSTEM	6,455	5,878	334	243				
N - NERVOUS SYSTEM	8,838	8,130	421	287				
P - PARASITOLOGY	2,807	2,584	164	59				
R - RESPIRATORY SYSTEM	6,932	6,512	262	158				
S - SENSORY ORGANS	1,782	1,444	243	95				
T - DIAGNOSTIC AGENTS	54	30	7	17				
V - VARIOUS	1,772	1,673	45	55				

# Annexure 11: Purchases of pharmaceuticals (million Rs.)

Products	Total	Retail sales /purchases	Doctor's purchases	Private hospital pharmacy				
July 2006 to June 2007 (million Rs.)								
Total	81,878	73,508	5,164	3,206				
A - ALIMENTARY T.& METABOLISM	17,535	16,066	862	606				
B - BLOOD + B.FORMING ORGANS	2,520	2,242	155	124				
C - CARDIOVASCULAR SYSTEM	5,791	5,499	145	147				
D - DERMATOLOGICALS	2,812	2,590	154	68				
G - G.U.SYSTEM & SEX HORMONES	2,506	2,253	143	110				
H - SYSTEMIC HORMONES	846	732	70	45				
J - SYSTEMIC ANTI-INFECTIVES	21,774	18,611	2,061	1,101				
K - HOSPITAL SOLUTIONS	442	394	19	28				
L- ANTINEOPLAST +IMMUNOMODUL	1,953	1,565	231	157				
M - MUSCULO-SKELETAL SYSTEM	5,792	5,275	300	218				
N - NERVOUS SYSTEM	7,931	7,295	378	258				
P - PARASITOLOGY	2.519	2,319	147	53				
R - RESPIRATORY SYSTEM	6,220	5.844	235	141				
S - SENSORY ORGANS	1,599	1.296	218	85				
T - DIAGNOSTIC AGENTS	48	27	6	15				
V - VARIOUS	1,590	1,501	40	49				
July 2005 to	June 2006 (mil	lion Rs.)	l					
Total	72,782	65,342	4,590	2,849				
A - ALIMENTARY T.& METABOLISM	15,587	14,282	766	539				
B - BLOOD + B.FORMING ORGANS	2,240	1,993	138	110				
C - CARDIOVASCULAR SYSTEM	5,148	4,888	129	131				
D - DERMATOLOGICALS	2,500	2,303	137	60				
G - G.U.SYSTEM & SEX HORMONES	2,228	2,002	127	98				
H - SYSTEMIC HORMONES	752	651	62	40				
J - SYSTEMIC ANTI-INFECTIVES	19,355	16,544	1,832	979				
K - HOSPITAL SOLUTIONS	393	350	17	25				
L- ANTINEOPLAST +IMMUNOMODUL	1,736	1,391	206	139				
M - MUSCULO-SKELETAL SYSTEM	5,149	4,689	266	194				
N - NERVOUS SYSTEM	7,050	6,485	336	229				
P - PARASITOLOGY	2,239	2,061	130	47				
R - RESPIRATORY SYSTEM	5,529	5,195	209	126				
S - SENSORY ORGANS	1,421	1,152	194	76				
T - DIAGNOSTIC AGENTS	43	24	5	14				
V - VARIOUS	1,414	1,334	36	44				

## Annexure 12: Questionnaire of Census of Big Hospitals

A MARKE MA
a second

Government of Pakistan Statistics Division Federal Bureau of Statistics

Census on Private Hospitals 2010-11



Including private and NGO/NPO hospitals <u>Excluding</u> general government (federal, provincial and district), military, cantonment board and social security hospitals <u>Note:</u> Information required in this Form is obligatory under Genaral Statistics Act 1975. The collected information will be kept strictly confidential & used in aggregates for statistical purpose only.

Iden	tification
Processing code	
1 Date of the enumeration D M M	A A A A
2 Name of hospital:	
3 Address of hospital:	
50 5 <u>2</u>	99 
4 Phone number:	
5 Fax number:	
6 E-Mail:	
7 Name of respondent:	
8 Designation of respondent in hospital:	
9 Did you at any point provide inpatient services d	uring the fiscal period 2007-2010?
Yes If <u>yes</u> , when did you start ser	and the second se
No 2 If no, skip the rest of the que	tionnaire and return it back
Hospital / Estab	lishment ownership
10 Type of ownership NGO / NPO	1 specify,
Private ownership	ndividual proprietorship
F	vrivate Limited Company
F	Partnership4
1	irust s
ç	Other, specify 6

11 During the last 12 months, how many months was this establishment operating?

12 General practitio	oner doctors	a	ь	
13 Specialist docto		a	b	
15 Others			b	
		a		
16 Total	Number	of Patients 2009-	-10 **	
		Admissions	Outpatients vis	its
17 Last month:	Total	a	b	
18	Male	a	b	
19	Female	a	b	
20 In 2009-10:	Total	а	ь	
21	Male	a	b	
22	Female	a	b	
	Nu	mber of Facilities		
		Last month	2007-08	2009-10
23 Number of Beds	,**	a	b	c
24 Operating theat	res	a	b	c
25 Blood banks		a	b	c
26 Ambulances		a	b	c
27 X-ray machines		а	b	c
28 Radiation therap	ру	а	b	c
29 CT scanners		a	b	c
30 MRI scanners		a	b	c
31 Other Facilities		a 🗌	ь	•
	Income	Receipts in full Ru	IDees	
	income.	Last month	200	7-08 2009-10
32 Consultation an	d medical charges	a	b	c
33 Consultation fee	es only	a	b	c
34 Sale of medicine	es	a	b	c
35 Amount of admi	ssion fees	a	ь	c
36 Inpatient charge	5 ***	a	b	c
37 Operation charg	jes	a	b	c
	nination fees	a	ь	c
38 Laboratory exar		a	ь	c
<ol> <li>Laboratory exar</li> <li>Imaging service scan, Ultrasoun</li> </ol>		9		

Number of Employees by type 2009-10

\*\*\* The Inpatient charges include room charges, bed charges, Medical officer visit charges, nursing charges etc.

2009-10

Total No. of bed occupancy days Last month

#### 41 Others (To specify see codes at last page of this questionnaire)

Code:	a	b	c
	a	b	c
	a	b	c
42 Total Income/Receipts (Q-32 to 41)	а	b	c
Percentage on total Income/Receipts:	Last month	2007-08	2009-10
43 Inpatient (%)	a	b	c
44 Outpatient (%)	a	b	c

### Inputs / Expenses incurred in full Rupees

A) General expenditures	Last month	2007-08	2009-10
45 Electricity	а	b	c
46 Gas	а	b	c
47 Water	a	b	c
48 Petrol, Diesel, Kerosene etc.	a	b	c
49 Repair and Maintainence	а	b	c
50 Administration	а	b	c
51 Others, specify:	a	b	c
52 Total	а	b	c
B) Medical expenditures	Last month	2007-08	2009-10
53 Cost of medicine purchased	a	ь	c
54 All other Medical Supplies *	а	b	c
55 Garment and clothing accessories	а	b	c
56 Others, specify:	a	b	c
57 Total	а	b	c
C) Employment cost	Last month	2007-08	2009-10
58 Total	a	b	c
59 General practitioner doctors	a	b	c
60 Specialist doctors	а	b	c
61 Paramedical staff	a	b	c
62 Payments to others for work done	а	ь	c
63 Others	a	b	c

" "All other Medical Supplies" include all supplies other than medicines, like chemical element

(such as oxygen, iodine, etc.), Inorganic chemical products (such as hydrogen peroxide, teeth filling etc.), Non-medicaments (such as bandages, plasters, gloves, test sticks, blood bags etc.), Medical Instruments (such as surgical instruments, syringes, BP- Apparatus, Ottoscope etc.), Orthopaedic Appliances (such as Artificial limbs, teeth etc.), Cardiac Appliances (such as stents, cardiac valves, etc) etc.

D) Taxes / Fees	Last month	2007-08	2009-10
64 Sales taxes paid (net, subtracting Subsidies)	a	b	c
65 Provincial/district taxes	а	ь	c
66 Other taxes, please specify:	а	b	c
E) Investments	Last month	2007-08	2009-10
67 Capital expenditure (buildings,	a	b	c
software and equipment) *		-	
68 Research and development	а	b	c
69 Depreciation	a	b	c
F) Payment of Loans to Financial Institution	ons	24 <u></u>	, <u>n</u>
70	а	b	c
71 Total Expenditure (A+B+C+D+E+F)	а	b	c

\* The capital expenditure does not include the sales tax paid, the sales tax should be mentioned

separately in question 64

### Codes for question 41

- 1 Government assistance/funds
- 2 Private donations (national)
- 3 International donations (current funding)
- 4 International donations (capital funding)
- 5 Receipts from management
- 6 Receipts from sales of waste material and scrap products
- 7 Receipt from transport services rendered to others
- 8 Subsidies received
- 9 Receipt from sale of used / 2nd hand goods
- 10 Other Income (Please specify)

Name of the Regional/Field Office:		
Name of Enumerator:	Signature:	
Name of Supervisor:	Signature:	

## Annexure 13: Questionnaire of Survey of Health Care Providers

		Care Pro and NGO/N eent (federal, ard and soci General Sta	on tatistics viders 2 PO hospit provincial al security mistics Ad	010-1 als I and di hospite at 1975	strict) als . The	collected information v	
	Ide	ntification					
Processing code							
				8			
1 Date of the enumeration		M Y	¥	¥	Y		
2 Name of Facility:							
3 Address of Facility:							
	20 22						
	- 22						
4 Phone number:							
5 Fax number:	- SK						
	: <del>11</del>						
6 E-Mail:	<u>1</u>					<u>- 100</u>	
7 Name of respondent:	. <del>.</del>						
8 Designation of responde	ent in Facility:					- 19	
9 Did you at any point pro	vide inpatient services* during t	ne fiscal peri	od 2009-2	010?			
Yes If ye	s, when did you start services?		Yea	ar 🗌			
	Go to Section 1 (Q10 to Q3	4)					
No 2 If no	Go to Section 2 (Q35 to Q4	4) If you o	nly provide	Outpa	tient	Services	
	Go to Section 3 (Q45 to Q4	8) If you o	nly provide	e Labor	atory	tests and Diagnostic Ser	vices
	Se	ction	1				
	Hospital / Esta	blishmen	owners	ship			
10 T		<u> </u>		222			
10 Type of ownership	NGO / NPO			cify,			
	Private ownership		al proprieto				
			imited Co	mpany		3	
		Partners	nip				
		Trust	-				
		Other, s	pecify			6	

"In-patient care refers to care for a patient who is formally admitted (or 'hospitalized') to an institution for treatment and/or care and stays for a minimum of one night in the hospital or other institution providing in-patient care

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Number	of Employees by type 2009-	-10
	Regular	Visiting Consultants
12 General practitioner doctors	a	b
13 Specialist doctors	a	b
14 Paramedical staff *	a	b
15 Others	a	b
16 Total	a	b
Nun	nber of Patients 2009-10 **	
	Last month	2009-10
17 Admissions Total	а	ь
18 Outpatients visits Total	a	b
	Number of Beds	
	Last month	2009-10
19 Number of Beds	a	ь
Inco	me/Receipts in full Rupees	
	Last month	2009-10
20 Consultation fees only	a	b
21 Amount of admission fees	a	b
22 Inpatient Charges ***	a	ь
22 Occurtion abarras		b
23 Operation charges	a	
24 Others, Specify	a	b
25 Total Income/Receipts	a	b
ercentage on total Income/Receipts:	Last month	2009-10
26 Inpatient (%)	а	b
27 Outpatient (%)	а	b
Inputs / E	xpenses incurred in full Rup	bees
	Last month	2009-10
28 Utility Charges, Repair & Maintainence	а	b
29 Cost of medicine and All Medical Supplies <sup>+</sup>	a	ь
30 Employment cost/Salaries		b
ou employment coso alanes	a	
31 Taxes/Fees(Sales taxes paid (net, subtracting Subsidies) Provincial/district taxes, Others)	a	b
32 Capital expenditure (buildings, software	a	b
and equipment) ++		
33 Others, specify:	a	b
34 Total Expenditure	a	b

2009-10 \*\*\* The Inpatient charges include room charges, bed charges, Medical officer visit charges, nursing charges etc.

\*All Medical Supplies\* include all supplies other than medicines like chemical element

Total No. of bed occupancy days Last month

Such as oxygen, iodine, etc.), Inorganic chemical products (such as hydrogen peroxide, teeth filing etc.), Non-medicaments (such as bandages, plasters, gloves, test sticks, blood bags etc.), Medical Instruments (such as surgical instruments, syringes, BP- Apparatus, Otoscope etc.), Orthopaedic Appliances (such as Artificial limbs, teeth etc.), Cardiac Appliances (such as stents, cardiac valves, etc) etc.

<sup>11</sup>The capital expenditure does not include the sales tax paid, the sales tax should be mentioned separately in question 31

## Section 2

35 Type of Health Care Provider			
	Individually run Solo Clinic*		2 <u> </u>
		Medical Practitioner (RMP)	1
	Run by Specialist		2
	Run by paramedio Run by others, Sp		3
	Outpatient Centre**		
	Dental Clinic***		e
	Homeopath Clinic		
	100 10101 0007155500		
	Hakeem/Herbalist Clinic <sup>†</sup>		5
	Traditional Birth Attendent/Dai		9
	Other, Specify	<del></del>	10
36 Average Number of Patients per day			
37 Number of Employees	Last month	2009-10	
	a	b	I
	Income/Receipts in full Rupees		
	Last month	2009-10	
38 Consultation fees	a	b	I
39 Sale of medicines	a	b	I
40 Laboratory examination fees	a	ь	l
41 Others, Specify	а	b	Ι
42 Total Income/Receipts	a	ь	]
In case, the provider does not keep monthly	y/yearly accounts and does not have disaggre	gated revenue data, they should	be asked
43 Charge/Price per Patient			
44 Number of working days in a week			
	Section 3		
	Last month	2009-10	
45 Revenue from Laboratory Tests	a	b	I
46 Revenue from Imaging services	а	b	Ι
47 Others, Specify	а	b	Ţ
48 Total Revenue	а	b	I

\*These are the individually run (run by one person) Allopathic clinics. Registered Medical Practitioners are the doctors with Basic Medical Education i.e. MBBS (Bachelors in Medicine & Surgery) and are registered with Pakistan Medical & Dental Council (PMDC). Specialists doctors have in addition to the basic medical qualification, a post graduation in some Speciality like Ear Nose & Throat (ENT) Specialists, Medical Specialists, Surgical Specialists etc. Paramedical/Nursing category include the persons who have got formal nursing training but they are not doctors.

\*\* These are the establishments engaged in providing Allopathic outpatient services by a team of doctors, paramedical and support staff, usually bringing together several specialities

\*\*\* These are the clinics who provide services related to the diagnosis, prevention, and treatment of diseases of the teeth, gums, and related structures of the mouth

<sup>+</sup> The Hakeems run clinics which provide remedies based on knowledge (Hikmat) which has foundations in the religion Islam The Herbalist are the practioners who prescribe Herbal remedies for medical conditions

Name of the Regional/Field Office:		
Name of Enumerator:	Signature:	
Name of Supervisor:	Signature:	

## Annexure 14: Questionnaire of Census of Autonomous Bodies / Corporations

Government of Pakistan Statistics Division Federal Bureau of Statistics (National Accounts) National Health Accounts Section, SLIC -5, 14th Floor, F-6/4 Blue Area Islamabad

## Census of Autonomous bodies/Corporations (Health Care Expenditures)

## Q. 1: General Information of Organization

1	Name					
1.2	Address					
1.3	Phone number					
1.4	Fax number					
1.5	E-mail address					
		Gender	Regular	Adhoc/Temporary	Other	Total
1.6	Number of employees	Male				
1.0	Number of employees	Female				
1.7	Economic activity					
	(Please mention)					
	PSIC Code (for official					
	use only)					

### Q. 2: How Organization provides Health Care services to its employees?

2.1	Through own Health fa- cilities? If yes, please specify	Number of Hospitals Other (Please Specify)	Number of Dispe	nsaries						
2.2	Through the Re- imbursement of Medical	Actual Reimbursement of medical charges (Amount in 000 Rs)								
2.2	charges bills? If yes, then	2005/06	2006/07	2007/08						
	please provide data on									
	the actual reimbursement									
	of Medical charges.									
	Through Health insur-	Health Insurance								
2.3	ance to employees?	Total Premiums								
	If yes, then please pro-	2005/06	2006/07 2007/08							
	vide data on the total premiums.									

## Annexure 15: Questionnaire of OOP Survey 2009-10

Household number (12 digits):							Enumerators name:					Name of Regional /field office:									
Section Out of Pocket Health Expenditures (OOP) - Recall period is last 4 weeks of enumeration date, in Rs.																					
			HE0	1									HE02								
Was a Health Care Facility accessed by any household Yes No						lf y	/es, how m	any visits were	e done			One row per	person per illr	ness!							
member in the last 4 weeks? If no, only indicate self medi-								by	all househ	old members?	•										
HE03	HE04	HE05	HE	06		E07	HE08	3	HE09	)	HE10	HE11	HE12	HE13	HE14	HE15	HE16	HE17	HE18	HE19	HE20
	Type of care	Type of	Kind of	illness		son of	Total		_		Parchi and Admission Fees		Supplies /	Food	Diagnostic	Doctor's fee	Tips	Cost of	Accompa-		Total
ID	accessed	Provider (see	(see d	code		unre-	expend	i-	Transpo	A			Medical						nying	Other	expenditure
(see	(see code	code below)	belo	ow)	late	ed to	ture	ta	ation cos	sts		Durables		tests			Surgery	Person Cost		corrected	
PSLM)	below) *	,		,	illnes	s (see															
						4															
						-	<u> </u>														
E					05.															07.	
Function codes HE04:         Provider codes HE05:           1 Outpatient         Private sector provider         Public sector provider								or prov	rovider 1 Accident					Reason codes HE07: 1 Looking for advice on health							
2 Inpatient 1 Private hospital						•							2 Injury					2 Looking advice on family planning issues			
3 Delivery 2 Private doctor clinic								9 Dispensary/Maternal and Child Health Centre					3 Poisoning including snake bites			3 Rout	3 Routine medical check-up				
4 Unrelated to illness 3 LHV / nurse in private sector 10 BHU							J	4 Diarrheal disorder (inclu										s			
5 Self medication 4 LHW 11 RHC								5 Fever (clinical malaria)					5 Anti-natal checkup								
* If code 4 selected then5 Homeopath / Hakeem / Herbalist / Siana / Dai 12 THQ / D														6 Immunization / vaccination							
SKIDTIEUU							0	specialized ho	ospital	7 Measles, Polio (Immunizable diseases)				7 Rehabilitative care							
7 Other, Specify 14 Military 15 Social Secur										8 Hepatitis infections 9 Woman's issue				8 Don't know 9 Other, Specify							
16 Autonomous b								•	government he	ospital	10 Eye infection/disorder										
17 Don't know							w				11 High blood pressure										
18 Other, Specify									12 Diabetes												
										13 Heart dise	ase										
									14 Stroke												
									15 Dental Ca 16 Don't knov												
														17 Other, Spe							1
170																		1			