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INCOME, A MEASURING DEVICE FOR HEALTH EXPENDITURE AND FAMILY HEALTH STATUS

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Abstract

Introduction: A person's income is a true measuring tool to identify their health status and, ultimately, a nation's economy. It has been estimated that an average salary person's expenses are according to their monthly income. It also helps to measure living standards and expenses other than basic needs. Health is the factor on which every family spends money, irrespective of their willingness.

Aim: Our study aims to correlate the income of different professionals and their expenses on their health. A good salary person expenses more on health. This study helped to find the correlation between income, health, and status of health among the sample population.

Methodology: The quantitative data were collected from careful sample selection. The designed questionnaires provide information regarding accurate salary, medical expenses, health expenses and the current status of family health.

Results: A person's income directly relates to health expenses and health status. They facilitate their family's expensive medical assistance and nutritionist in case of good salary packages and stand on excellent health status. The reverse is in the case of low- income families and their health status. Income directly relates to medical assistance and facilities a family can acquire.

Keywords Income, Health, Medical assistance, Salary

Introduction

Many development efforts have been made in Pakistan for the last fifteen years to achieve sustainability in economic status. Unfortunately, poverty has remained the same or increased (Mustafa 2003). Many reasons can easily highlight the current economic stability among the population (Nazir and Afza 2009; Xu et al. 2023). Pakistan's political, security, and systems have improved social per inhabitant, as reported in the early 20th century (Shaikh and Hatcher 2005). Gross domestic product has improved over the past two decades but has declined recently (Hussain, Mushtaq, and Saboor 2009).

Many attempts have been made to increase investment in economic development and high political commitment to provide health by different rules and regimes. Some progress has been

made in Pakistan's universal access to health care, as found in reductions in maternal and child mortality reflected in recently reported literature (Akseer et al. 2016). The country is determined to promote the success of its socioeconomic development. These include improving health and education and providing social security for those who need (Miditerranean 2021). The income statistics of the average Pakistani were found to decline more in previous years and remain the same in the case of a high-income person, irrespective of inflation on basic items needed for every person (Sher, Ahmad, and Safdar 2012).

With the development of medical sciences and health technologies, the average life expectancy among developed and under-developed countries increased in the 20th century. Factors such as better nutrition, awareness of health issues, good sanitation, improving medical technology and strengthening public health infrastructure gradually increase human life expectancy (Frenk et al. 2006). These developments have allowed economic growth and its stable state through human capital accumulation (Majeed and Ahmad 2008). Good health is one of the most important determinants of Human capital (Shuaibu 2016). It can be said that better health impacts the performance of the nation's economic growth (Pereira et al.

2021).

Study on income distribution and savings in Pakistan has very limited data. In the past several articles appeared that helped to investigate the income from 1960-1995 (Farooq 1966; Kurji, Premani, and Mithani 2016). However, due to data limitations, we have covered a specific geographic area (Pakistan, Karachi) and demographic group (top professions) in our study. At the same time, the current document deals with all personal income, medical expenses, health, and nutrition care per sample in the year 2022.

Health status positively impacts economic growth and measures the level of skills acquired by the population (Ali, Sharif Chaudhry, and Farooq 2012). Health as a key determinant of human capital is of great interest to the following study. Health awareness and its measures among the population due to technology usage and ease of information transference has increased among the world's average population (Organization 2000).

This study has theoretical and empirical perspectives to measure health in relation to a person's gross income. The increase in health and income is considered a rate of economic growth and well-being of a country. The literature has several mechanisms for finding the relationship between health and economic growth (Casasnovas, Rivera, and Currais 2005;

Morand 2005).

The Pakistan Demographic and Health Survey (PDHS) 2006-07, part of the World Demographic and Health Survey project, is the largest household survey ever conducted in Pakistan to collect health information and outcomes demographics (Pakistan 2008). The government of Pakistan has announced a basic salary of about a minimum of 25,000, unfortunately, our samples were collected with a minimum salary of 20,000 on average in labor (Cheema 2006). This has indicated an alarming condition in the current situation and may increase the casualty in the low-income population. However, this has not been investigated with statistical analysis in our designed study but needs to highlight to consider by concerned authorities. Our aim of this investigation is to highlight the importance of income and health status, as the literature survey has indicated this area is least investigated among researchers. This paper helped to open new doors of investigation further help policymakers researchers to improve income and health measures, specifically in the low-salary population.

Methodology

The study examines the impact of income in different professional fields in Pakistan and their expenses on health. The

data collection technique was based on a survey of their per-year income, hospital visits, and average annual expenses on all kinds of health assistance. This study used the quantitative method in data collection. The following methods were applied to the research:

- Conducted detailed investigation to select the homogenized sample or respondents to collect valid data, allowing 4-5 respondents to each group.
- The questionnaire was distributed with assistance to get the actual figure in numbers.
- The fixed list of questions has been evaluated in standard order for each group in the survey.
- The assistance method and questionnaire are useful for both literate and illiterate participants.
- Health status has been found by measuring their conditions with the help of a medical assistant.

 The questionnaire includes information that helps to identify their overall family health status.

 The status is given numerics from 1-4. Number one indicates excellent health status.
- Clarify the question and gather more relevant information from the sample.

The collected data is noted with code numbers. hidden personal information, and job details. It has made sure participants take only figures or numbers from their questionnaires, and they feel free not to share their work. Checklists, interview modalities, group discussions, and quantitative methods, including their detailed family members and their actual expenditure information, have been incorporated. Our samples have family members of 4-5 only, and their medical expenditures are not paid by their organization or insurance companies. We have focused on the actual expenses of participants.

Result and Discussion

This study has been designed to assess the effect of salary on health expenses and status. The questionnaire helped to figure out the average salary of the sample, and they were added up according to their job domains in our survey.

Engineers

In our study, four families were selected, and any of the heads, either male or female, was an engineer by profession and working in the same post. Their pay slip confirmed their monthly income, ensuring their medical and health expenses were paid from their salaries. The health expenses include their gym and diet regulators like

protein, calcium, and others. Table 1

represents the real expenses of the

Engineers Family on their medical and

health from their salaries.

G 90000 5500 H 110000 5000

Bankers

In the private banking sector, the employees get low salaries but get job benefits and insurance. In data collection,

benefits and insurance. In data concerton,
ly expenses on medical and health we selected five families working in five
private banking sectors. The salaries
included in the data are net salaries after
every detection, including tax, loans, and
others. The reason is to find the amount
they have in their hands and the expanses

they do without assistance. Table 3

indicates the amount Bankers got after all

kinds of detection from their salaries and

their expenses on medical and health.

Table 3 Banker's Family expenses on health and medicines per month from their salaries

Family No.	Salary per month	Monthly expen
	(Rs) Lac	
I	160000	16000
J	166000	16000
K	170000	15000
L	166666	17000

Administrators

For the administration, we have selected similar posts but have a different

		duration of their jobs. The data was
Family No.	Salary per month	Monthly expenses on medical and health
	(Rs) Lac	collected after detecting all allowances and
С	05000	medicals they offered, as done with
E	95000	4500 bankers' data. Table 4 represents the
F	105000	bankers' data. Table 4 represents the
		average income of a person working in

 Table 1
 Salary
 and expenditure of

 Engineer's Family

Family No.	Salary per month	Monthly
	(Rs) Lac	
A	145000	12500
В	155000	12000
С	140000	11000
D	160000	13000

Doctor

The paramedical staff of many relaxations from their organization, and they bear the expenses privately from other hospitals offers free medical and drugs to their families. We have collected the data from those four *MBBS* doctor's families who have not been offered any medical sources. Table 2 shows the data collected from four families and their real expenses without their workplace.

 Table 2 Doctor's expenses on health and

 medicine from their salaries

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administration with a similar designation

but little difference in their job experiences.

Table 4 Health expenses and salaries per

month of Administrators

T1	125000	11000	T2
			1

Labor

The data collected from laborers are includes only their medical expenses, as no family has been found to spend any other

Family No.	Salary per month	Monthly	shown in Table expenses on medic	6. the health expenditure cal and health			
M	90000	15000	Monthly expenses on medical and health fluiritional health expenditures. 15000 Table 6 Monthly salaries and health				
N	110000	14000	expenses of Labe				
О	105000	15000	Family No.	Salary per month	Medical		
P	95000	14666	U	20000	4000		
L	 ivate and Public Secto	rs	V	18000	3000		
officers in 11	iraic ana 1 abuc Sceio	7.5	M	22000	5000		

The data collected from private and government officers are shown in Table 5. Similar practices have been done during the investigation. The net salaries were targeted, and health expenses included their luxury expenses like the nutritional diet they used to take, the exercise clubs fee they joined and their assistance from any dietary specialist.

Table 5 Net salaries of officers in the Private and Public Sector with their health expenses

After gathering data from individual families according to the work domain, the data were gathered in Table 7. It represents all categories' average salary per annum and their health expenses.

20000

4664

Table 7 Combine data on salaries and health expenses per year among all samples

						The average i	income per ye
Officers in the Private sector		Off	icers ir	the Public s	sector	(Rs) Lac	
			Engine	er		18	
Salary per	Medical and	Far	aily	Salary per	Medical	and	
month	Health Expenses	No.	Doctor		Health l	12 Expenses	
120000	1		Banker	11.6000	0000	20	
120000	10000	Q2	<u></u>		9000	1.2	
125000	9000	R2	Admini	strator 115000	8000	12	•
123000	7000		Officer		_	15	
130000	9500	S2		117000	8000		
			sector]
	Salary per month 120000 125000	Salary per Medical and month Health Expenses 120000 10000 125000 9000	Salary per month Medical and Health Expenses Fan No. 120000 10000 Q2 125000 9000 R2 130000 9500 S2	Salary per Medical and Family Doctor month Health Expenses No. 120000 10000 Q2 125000 9000 R2 130000 9500 S2	Salary per Medical and Family Salary per Doctor Month Health Expenses No. Banker 120000 10000 Q2 116000 Administrator 125000 9000 R2 115000 Officers in the Priva 117000	Engineer Salary per Medical and Family Salary per Medical	In the Private sector Officers in the Public sector (Rs) Lac Salary per Medical and month Family Salary per Medical and poctor Month Health Expenses No. Month Health Expenses 120000 10000 Q2 116000 9000 125000 9000 R2 115000 8000 130000 9500 S2 117000 8000

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Officers in the Public sector	14	been designated by the medical assistant
labor	2.4	and shown by the number, and they have

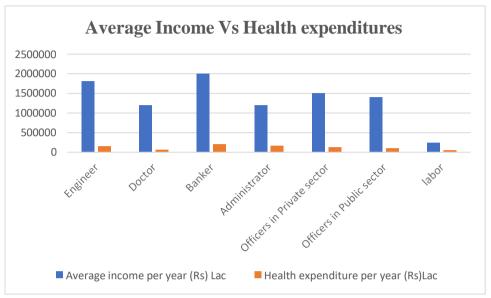


Figure 1 Represent the Bar chart between average income and health expenditures

added their questions to the questionnaires.

The health decline was in ascending order

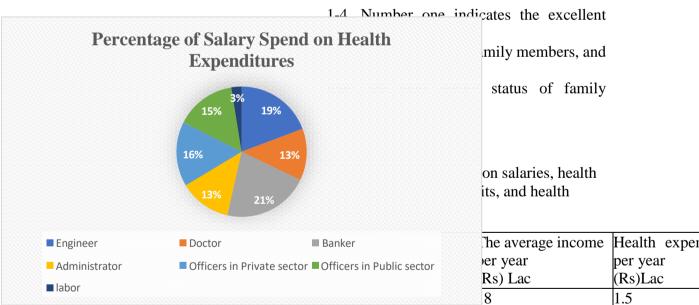


Figure 2 Represents the percentages of health expenses spent from their salaries.

Table 8 represents the health status and visit per month given in each group of samples after investigating the questionnaire data. This health status has

	8	1.5
Doctor	12	0.6
Banker	20	2
Administrator	12	1.7
Officers in the	15	1.2
Private sector		
Officers in the	14	1
Public sector		
labor	2.4	0.5

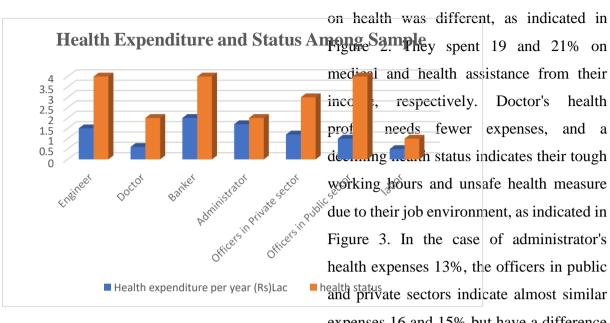


Figure 3 Comparison of health expenditures and health status among the sample

find Our study aims to the relationship between income, health expenditures, and family health status. the data has been collected from individual samples like Engineers, doctors, bankers, etc. Tables 1-6 represent the data on average monthly salaries and their family members' medical and health expenses. The monthly collected data help to evaluate the yearly income and their average medical expenses, as shown in Table 7. The relationship between income and health expenses is indicated in Figure 1. It clearly showed a good-income person spends more money on health assistance. In Figure 1, the income status of engineers and bankers was high, and they spent more money on good health than other groups in the sample

(Figure 3). However, the amount they spent on health was different, as indicated in medical and health assistance from their respectively. Doctor's health needs fewer expenses, dealing which status indicates their tough working bours and unsafe health measure due to their job environment, as indicated in Figure 3. In the case of administrator's health expenses 13%, the officers in public and private sectors indicate almost similar expenses 16 and 15% but have a difference in health status, as shown in Figure 3. Our results indicate the worst health status in the case of laborers as they have the least income and least facilitate poor health assistance to their families and face a decline in the health status of their families. showed by number four.

Conclusion

This study indicates relationship between a family's expenses on health assistance depends on income. A person with a good salary seeks quality health and medical assistance compared to someone with low packages. Our study has categorized into four different salary like ranges. High-income persons engineers, bankers. doctors, and

administrators fall in the second category with medium-high salary packages, the medium category was of officers in private and public sectors, and the last one was the labor division taking the lowest packages. It has been concluded from the above data that the highest income person expense more on health, like the data of Engineers and bankers showed excellent family health status, and the least health status was found in labor families due to low income and the least expense on health.

Recommendations from current studies

- A national survey is needed to find the average salary among the population.
- Economic researchers were higher to find the income impact and quality of health assistance.
- Our study found poor medical assistance in the case of low income. It should be equal for every individual nationwide.
- Inflations on basic items needed by every person and the low salary were alarming. However, the government has

announced a basic salary of about a minimum of 25,000.

References

- 1. Akseer, Nadia et al. 2016. "Achieving Maternal and Child Health Gains in Afghanistan: A Countdown to 2015 Country Case Study." *The Lancet Global Health* 4(6): e395–413.
- 2. Ali, Sajid, Imran Sharif Chaudhry, and Fatima Farooq. 2012. "Human Capital Formation and Economic Growth in Pakistan." *Pakistan Journal of Social Sciences (PJSS)* 32(1).
- 3. Cheema, Moeen. 2006.

 "Government's Compensation Scheme in Azad

 Kashmir: An Appraisal." *Pakistan Horizon*59(4): 149–62.
- Farooq, Ghazi Mumtaz. 1966.
 "The People of Karachi Economic Characteristics."
- 5. Frenk, Julio et al. 2006. "Comprehensive Reform to Improve Health System Performance in Mexico." *The Lancet* 368(9546): 1524–34.
- 6. Hussain, Magsood, Khalid

Mushtaq, and Abdul Saboor. 2009. "To Investigate the Long-Run Equilibrium Relationship between Health Expenditure and Gross Domestic Product: A Case Study of Pakistan." *Pakistan Journal of Life and Social Sciences* 7(2): 119–22.

- 7. Casasnovas, Guillem López, Berta Rivera, and Luis Currais. 2005. *Health and Economic Growth: Findings and Policy Implications*. Mit Press.
- 8. Kurji, Zohra, Zahra Shaheen Premani, and Yasmin Mithani. 2016. "Analysis of the Health Care System of Pakistan: Lessons Learnt and Way Forward." *J Ayub Med Coll Abbottabad* 28(3): 601.
- 9. Majeed, Muhammad Tariq, and Eatzaz Ahmad. 2008. "Human Capital Development and FDI in Developing Countries."
- 10. Miditerranean, W H O
 Eastren. 2021. "Country Cooperation Strategy
 for WHO and Pakistan 2020-2025."
- 11. Morand, Olivier F. 2005."Economic Growth, Health, and Longevity

- in the Very Long Term: Facts and Mechanisms." *Health and economic growth: findings and policy implications* 74(2).
- 12. Mustafa, Daanish. 2003. "Reinforcing Vulnerability? Disaster Relief, Recovery, and Response to the 2001 Flood in Rawalpindi, Pakistan." Global Environmental Change Part B: Environmental Hazards 5(2): 71–82.
- 13. Nazir, Mian Sajid, and Talat Afzal. 2009. "Working Capital Requirements and the Determining Factors in Pakistan." *IUP Journal of Applied Finance* 15(4): 28.
- 14. Organization, World Health.2000. The World Health Report 2000:Health Systems: Improving Performance.World Health Organization.
- 15. Pakistan, NIPS. 2008. "Pakistan Demographic and Health Survey 2006-07 Islamabad." Pakistan: National Institute of Population Studies and Macro International Inc.
- 16. Pereira, Miguel Alves, Ana Santos

Spry Journal of Economics and Management Sciences Published by **Spry Publishers**

Camanho, Rui Cunha Marques, and José Rui Figueira. 2021. "The Convergence of the World Health Organization Member States Regarding the United Nations' Sustainable Development Goal 'Good Health and Well-Being." Omega 104:

Achieving Sustainable Development Goals in Pakistan: A Novel Policy Framework." Energy Strategy Reviews 45: 101050.

17. Shaikh, Babar T, and Juanita Hatcher. 2005. "Health Seeking Behaviour and Health Service Utilization in Pakistan: Challenging the Policy Makers." *Journal of public health* 27(1): 49–54.

102495.

- 18. Sher, Falak, Nisar Ahmad, and Shireen Safdar. 2012. "Income and Economies of Scale Effect on Household Food Demand Pattern in Pakistan Using PSLM Data." *Academic Research International* 3(1): 50.
- 19. Shuaibu, Mohammed. 2016. "Determinants of Human CapitalDevelopment in Africa: A Panel Data Analysis." *Oeconomia Copernicana* 7(4): 523–49.
- 20. Xu, Dinghong et al. 2023."Analyzing the Factors Contribute to