

Table of Contents

Chapter 1	General Introduction	1
1.1	Background	1
1.2	Objectives	5
1.3	Organization of the thesis	6
Chapter 2	Review of Literature	8
2.1	Introduction.....	8
2.2	Factors affecting public health expenditures	8
2.3	Social, demographic and economic determinants of health Status	11
2.4	Health and its role in economic development.....	16
2.5	Research gaps and contribution	18
2.6	Research Questions	20
Chapter 3	Health sector of Pakistan: A brief overview	22
3.1	Introduction.....	22
3.2	Health system in Pakistan	23
3.3	Development planning and health Sector	25
3.4	National health policies.....	26
3.5	Political economy of health sector.....	27
3.6	Public health spending	28
3.7	Health human resources	29
3.8	Health status	29
3.9	Summary	30
Chapter 4	Conceptual and theoretical framework and methodology	32
4.1	Conceptual framework.....	32
4.2	Theoretical framework.....	35
4.2.1	Demand for health care.....	35
4.2.2	Production function approach.....	36
4.3	Methodology	37
4.4	Unit root analysis (order of integration)	39
4.4.1	Dickey Fuller (DF) and Augmented Dickey Fuller (ADF) unit root test.....	40
4.4.2	Philip and Peron (PP) unit root test	43
4.5	Testing for Cointegration (long run relationship).....	43
4.5.1	Johansen Cointegration procedure.....	44
4.5.2	Error correction specification (short run dynamics).....	46
4.5.3	Weak exogeneity test.....	48
4.6	Granger causality test.....	48
Chapter 5	Determinants of public health expenditures in Pakistan.....	51
5.1	Introduction.....	51
5.2	Model, data and variables	53
5.2.1	Model.....	53
5.2.2	Data.....	56
5.2.3	Variables	57
i)	Public health expenditures	57
ii)	Public health expenditures as percent of GDP	57
iii)	National income	58
iv)	Unemployment rate	58

v)	Health facilities	59
vi)	Age structure	59
vii)	Urbanization	60
5.3	Results and discussion	61
5.3.1	Unit root test results.....	61
5.3.2	Cointegration results.....	62
5.3.3	Results of vector error correction model (short run dynamics).....	68
5.4	Summary	70
Chapter 6	Economic, social, demographic and political factors affecting health status in Pakistan	72
6.1	Introduction.....	72
6.2	Model and Data.....	75
6.3	Variable description	78
i)	Health status.....	78
ii)	Health services	79
iii)	Total fertility rate (TFR)	80
iv)	Nutritional status	80
6.4	Results and Discussion	81
6.4.1	Unit root results	81
6.4.2	Cointegration results.....	83
6.4.3	Granger causality results	87
6.5	Summary	88
Chapter 7	Health and Economic Development in Pakistan.....	89
7.1	Introduction.....	89
7.2	Model and data.....	92
7.3	Results and discussion	95
7.3.1	Order of integration (unit root analysis).....	96
7.3.2	Cointegration and causality analyses.....	97
7.4	Summary	101
CH 8	Summary and Conclusions	103
8.1	Introduction.....	103
8.2	Conclusions.....	109
8.3	Future Research	110
Reference		112
Appendix A		139