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Best Practices in Achieving Universal Health Coverage: A Scoping Review

Jalil Koohpayehzadeh¹, Saber Azami-Aghdash², Naser Derakhshani³*⁽⁰⁾, Aziz Rezapour³, Riaz Alaei Kalajahi⁴, Javad Sajjadi Khasraghi⁴, Mahdi Nikoomanesh⁵, Hamideh Sabetrohani¹, Samira Soleimanpour⁶

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Abstract

Background: The Universal Health Coverage (UHC) is a very important and effective policy in the health system of countries worldwide. Using the experiences and learning from the best practices of successful countries in the UHC can be very helpful. Therefore, the aim of the present study is to provide a scoping review of successful global interventions and practices in achieving UHC.

Methods: This is a scoping review study that has been conducted using the Arkesy and O'Malley framework. To gather information, Embase, PubMed, The Cochrane Library, Scopus, Scientific Information Database, and MagIran were searched using relevant keywords from 2000 to 2019. Studies about different reforms in health systems and case studies, which have examined successful interventions and reforms on the path to UHC, were included. Articles and abstracts presented at conferences and congresses were excluded. Framework Analysis was also used to analyze the data.

Results: Out of 4257 articles, 57 finally included in the study. The results showed that of the 40 countries that had successful interventions, most were Asian. The interventions were financial protection (40 interventions that were categorized into 14 items), service coverage (31 interventions categorized into 7 items), population coverage (36 interventions categorized into 9 items), and quality (18 interventions categorized into 7 items), respectively. Also, the positive results of interventions on the way to achieving UHC were financial protection (14 interventions), service coverage (7 interventions), population coverage (9 interventions), and quality (7 interventions), respectively.

Conclusion: This study provides a comprehensive and clear view of successful interventions in achieving the UHC. Therefore, with consideration to lessons learned from successful interventions, policymakers can design appropriate interventions for their country.

Keywords: Universal Health Coverage, Health Care Reform, Financing, Services Coverage, Quality, Scoping Review

Conflicts of Interest: None declared

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Introduction

The UHC has been introduced by the World Health Or-

Corresponding author: Naser Derakhshani, derakhshani.n@iums.ac.ir

- ^{1.} Preventive Medicine and Public Health Research Center, Psychosocial Health Research Institute, Community and Family Medicine Department, School of Medicine, Iran University of Medical Sciences, Tehran, Iran
- ². Tabriz Health Services Management Research Center, Health Management and Safety Promotion Research Institute, Tabriz University of Medical Sciences, Tabriz, Iran
- ³. Health Management and Economics Research Center, Iran University of Medical Sciences, Tehran, Iran
- ^{4.} Department of Health Management and Economics, School of Public Health, Tehran University of Medical Sciences, Tehran, Iran
- ^{5.} Student Research Committee, School of Health Management and Information Sciences Branch, Iran University of Medical Sciences, Tehran, Iran
- ^{6.} Department of Medical Librarianship and Information Sciences, School of Health Management and Information Sciences, Iran University of Medical Sciences, Tehran, Iran

ganization (WHO) as a viable approach and a way for

†What is "already known" in this topic:

The UHC approach has been highly considered by countries in the last two decades, and these countries have taken many steps with success or failure in the road of achieving UHC. Accordingly, reviewing and learning from the successful interventions of other countries and learning from these experiences in the field of UHC can be very useful.

\rightarrow *What this article adds:*

This study provides the comprehensive and clear view of successful interventions performed in most countries at different income levels, which seek to achieve the UHC. Reporting these successful interventions can be a model and guide for other countries to avoid the costs and recurring mistakes.

countries to access equitable health s ervices and ultimately a healthy community (1, 2). The UHC can be accepted as a very important and effective policy in the health system of countries, which can improve the quality of people's lives to an acceptable level by providing equitable quality health services to all people everywhere without any financial pressure (3-11). Thus, achieving UHC can have a significant impact on health promotion, easier access to health care for those in need, and improved public health, especially for the poor (12, 13).

Given the importance of achieving UHC for high- and middle-income countries, the number of countries trying to achieve this has increased in the last 2 decades (14, 15). In addition, nowadays, countries by increasing their knowledge and awareness of strategies and applying the experiences of successful countries as well as acquiring the necessary capabilities to meet their urgent needs, are trying to take the path of achieving UHC (16-18). Like other high-income countries that have achieved UHC, low- and middle-income countries, with taking into account the structure and resources that they have on the path to UHC undertake measures, such as mobilizing resources, fulfilling the political commitments necessary to implement health-related policies, and implementing effective reforms and interventions in macronational policies (1, 19-21). The UHC can be one of the most challenging political processes that require the support of various stakeholders, including health system policymakers (4). Although all countries pursue the same goal of achieving UHC, the path and duration of achieving this goal depend on the structure and resources of the countries as well as the specific effective factors of each country (4).

Given the specific circumstances of each country, there is no uniform way of achieving UHC, and countries act based on their structural strengths and weaknesses. (4, 22-24). To achieve UHC, countries need to identify their strategic issue. For example, in the field of stewardship, financing, resources generation, and service provision, each country based on its health system needs, identifies effective factors, such as prioritizing health system reforms according to its own factors, such as prioritizing health system reforms (25), considering organizational structure and its capacity (26-28), having national and political commitment (29-32), economic growth (33-35), financial protection (36-39), health insurance coverage (15, 34, 40), prevention of catastrophic costs (41, 42), reduction of outof-pocket payments (41, 43-49), health insurance prepayment (40, 50-53), national policies for human resources training (25-27) and geographical distribution of services (54-57), and given its weaknesses or strengths in these functions, to reform and strengthen its health system on the path to UHC.

On the path to UHC, it is crucial to consider the functions of the health system and reform these functions based on the specific circumstances of the countries. In this regard, using the experiences of other countries and learning from the best practices in successful countries in the field of UHC can be highly useful. The definition of the best practices in this study is to paying attention to the experiences and successful interventions of countries' health systems in the achievement of UHC. Therefore, the purpose of the present study was to review the successful global interventions and practices to achieve UHC in the form of a scoping review.

-Identify successful financial protection interventions, reforms, and practices in achieving UHC

-Identify interventions, improvements, and successful service coverage practices in achieving UHC

-Identify successful population coverage interventions, reforms, and practices in achieving UHC

-Identify successful interventions, reforms, and practices in the quality of health services in achieving UHC

Methods

This was is a scoping review study conducted in 2019 based on the book "A Systematic Review to Support Evidence-Based Medicine" (58).

Information Sources

Required information was searched in the Embase, PubMed, the Cochrane Library, Scopus, Scientific Information Database, and MagIran from January 2000 until the end of January 2019. The keywords of Universal health coverage, Universal health care coverage, Universal health care coverage, Universal coverage, UHC, Strength,* Transform,* interventions, improve,* program,* innovations, initiative, Financing, "Service delivery", Stewardship, and "Resource generation" were used in the search. Some specialized journals, Google Scholar, and the references of included articles were reviewed manually. The databases of the European Association for Gray Literature Exploitation and the Health Care Management Information Consortium as well as the WHO and World Bank sites were also searched (Table 1).

Table 1. Complete Search Strategy for PubMed Databases

Set	Strategy	Results
#1	(((("universal health care coverage") OR "universal healthcare coverage"[Title/Abstract]) OR "universal health coverage"[Title/Abstract]) OR "universal coverage"[Title/Abstract]) OR "UHC"[Title/Abstract] Filters: Publication date from 2000/01/01 to 2019/1/31; English	3735
#2	(Strength [TIAB] OR Strengthes [TIAB] OR Transfor [TIAB] OR Transfores [TIAB] OR intervention [TIAB] OR interventions [TIAB] OR improve [TIAB] OR improvement [TIAB] OR programm [TIAB] OR programmes [TIAB] OR initiative [TIAB] OR initiatives [TIAB] OR innovation [TIAB] OR innovations [TIAB] OR Financing [TIAB] OR Financings [TIAB] OR "Service delivery" [TIAB] OR Stewardship [TIAB] OR "Resource generation" [TIAB]) Filters: Publication date from 2000/01/01 to 2019/1/31; English	1958401
#3	#1 AND #2	1666*
* Filt	ers activated: Publication date from 2000/01/01 to 2019/1/31, English.	

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Eligibility Criteria

Inclusion criteria: All observational (descriptive studies about different reforms in health systems) and intervention studies, especially case studies, which have examined successful interventions and reforms of countries on the path to UHC and published between 2000 and 2019, were included in the study.

Exclusion Criteria: Articles and abstracts presented at conferences and congresses as well as studies that did not report successful interventions were excluded.

Review Process: In this study, the Arkesy and O'Malley frameworks for scoping review were used. This framework is the first methodological framework for conducting scoping review research published in 2005 (59). The framework consists of 6 steps: (1) identification of the research question; (2) identification of relevant studies, (3) study selection; (4) Data charting; (5) data analysis and reporting the results; and (6) consultation exercise. The study also used the (Preferred Reporting Items for Systematic Reviews and Meta-Analyses) PRISMA framework to report the results (60, 61).

The study process was such that initially the titles of all articles were reviewed and articles that were incompatible with the aims of the study were excluded. Subsequently, abstracts and full-texts of the articles were studied, respectively, and studies that did not meet the inclusion criteria and had poor correlation with study aims were identified and excluded. Data were extracted according to a researcher-made data extraction form, and entered into the designed table. At first, as a pilot for data extraction form, the data of 5 papers were extracted and the deficiencies of the original form were eliminated. The whole process of systematic review was performed by 2 researchers independently and disputes were referred to a third researcher.

Given that it was necessary to study the full-text of the included studies to extract data, this was done by the research team in 2 stages. However, in the third and fourth stages of the Arkesy and O'Malley frameworks, after the initial extraction of the data from the selected studies, the research team reexamined the data in 2 sessions carefully and, finally, the studies were rescreened by the research team to include precisely relevant and high-quality studies. Endnote X9 software was also used to organize study titles and abstracts as well as identify duplicates.

Data Analysis

The framework analysis was used to analyze the data, which is a hierarchical approach used to classify and organize data based on key themes, concepts, and emerging classes. Data were extracted by 2 researchers and entered in to data extraction table. The steps for analyzing and coding the data were (1) familiarity with the text of articles (immersion in article results); (2) identifying and extracting primary themes (identifying and extracting more articles relevant to primary themes); (3) placing articles in determined themes, (4) reviewing and completing the results of each theme with the use of results of the articles and ensuring the reliability of the themes and the results extracted in each theme (in cases of disagreement between the 2 coders, the dispute was referred to the third researcher). Textual data were analyzed manually and categorized into dimensions of UHC (financial protection, population coverage, service coverage, and quality) using the framework analysis method (62, 63). In case of disagreement between researchers, the study was reviewed by a third person who was an expert, and with the authors' consensus, the proper function was selected.

Results

Of the 4257 articles found, 1328 were excluded as duplicate papers and 2616 were excluded in title and abstract reviews. Also, of the 313 articles entered the full-text review phase, 256 were excluded because of lack of appropriate information and lack of reporting of the required information as well as rescreening of the full-text. Finally, 57 articles were included in the study (Fig. 1).

The results of included studies are summarized in supplementary file1 (Appendix 1).

Country of Study

Studies published on successful interventions to achieve UHC were conducted in 40 countries. Most studies were in Asia, with 14 countries, and the least in European countries with 4 studies. Most studies were conducted in Thailand (6 studies), China (6 studies), Mexico (6 studies), and Brazil (6 studies). Among these countries, 5 achieved to UHC, 11 were at the border of achieving, and others were on the path to UHC. Also, according to the latest World Bank classification in 2019-2020 (64), 9 studies were conducted in low-income countries (LICs), 13 in lower-middle income countries (LMIC), 18 in upper-middle income countries (UMIC) and 9 studies in High-Income Countries (HIC), and 8 in more than 1 country (Fig. 2).

Trend of Publications Year

The time trend of the studies' publication shows that most of the studies, except for 2, were published after the announcement of UHC as a global, international health policy for all countries by the WHO in 2008, and most of studies (n = 15 studies) were published in 2018 (Fig. 3).

Interventions According to the Dimensions of UHC

According to the type of interventions in each of the UHC dimension, interventions were categorized into different parts as follows: financial protection (40 interventions categorized into 14 items), service coverage (31 interventions categorized into 7 items), population coverage (36 interventions categorized into 9 items), and quality (18 interventions categorized into 7 items). The most and the least interventions were financial protection and quality, respectively (Fig. 4).

Successful Results of Interventions

According to the type of successful results gained from interventions in countries in each of the UHC dimension, results were categorized into different items as follows: financial protection (n = 14 items), service coverage (n = 7 items), population coverage (n = 9 items), and quality (n = 7 items) (Fig. 5).

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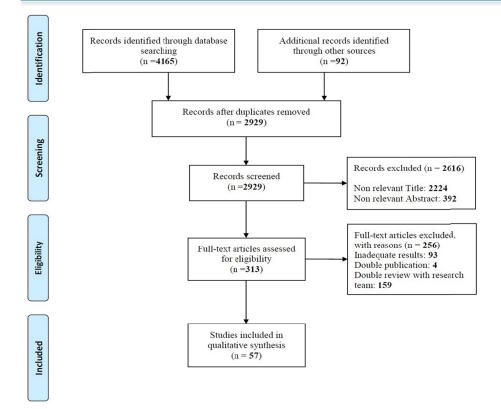


Fig. 1. Flow diagram of the searches and Inclusion process.

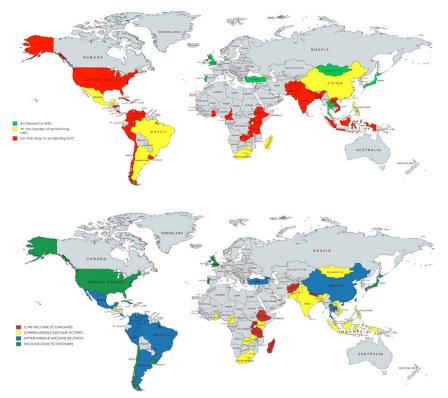


Fig. 2. Countries' successful interventions on the path to UHC with different condition and successful interventions in achieving UHC in countries based on the World Bank's latest classification.

Discussion

Out of 4257 articles found, finally 57 were included in

the study. These articles examined successful interventions in 40 countries on the path to UHC. Most studies were conducted in Asia and the least in Europe.

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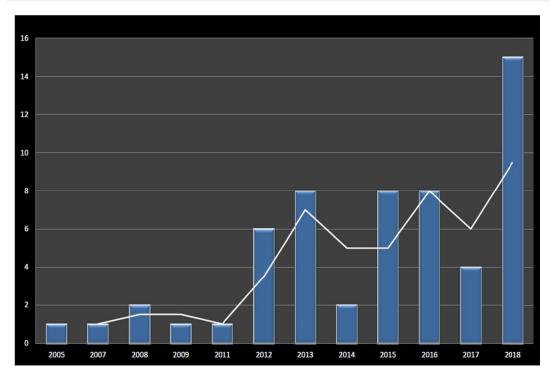


Fig. 3. The time trend of interventional studies' publication on the path to UHC

Results were categorized into different items: financial protection (n = 14 items), service coverage (n = 7 items), population coverage (n = 9 items), and quality (n = 7 items). Most of the interventions were done in LMICs. The results show that most of the interventions in the field of service coverage are targeted specific groups, such as children, adolescents, women, and as specific patients.

The results of the reviewing the time trend of study publication revealed that most studies (except for 2) were published after announcing the UHC as a national and international policy for countries by the WHO in 2008 (3, 65). Also, the time trend of articles publication indicates the importance and great attention of countries to international health-related policies. Considering the many efforts being made in this area, again the high importance of this issue and its repeated mention by the WHO and the commitment of countries to achieve UHC by 2030, demonstrates the feasibility of conducting interventional studies and publication of very important and modeling articles for other countries. Therefore, published articles in this field need to address the performed intervention in more detail so that other countries do not make repeated and costly mistakes when using model countries' experiences (3, 6, 66, 67).

Most of the interventions were done in LMICs and UMICs. Few studies were conducted in high or LICs. One of the possible reasons could be that the HICs are fully achieved UHC and need for no major interventions. In LICs, also, the low interventions could be due to their low income and their inability to finance the structural and basic interventions and to develop major infrastructure. However, evidence suggests that LICs have also taken substantial measures and successful interventions to achieve UHC, given the importance of health and its impact on their economies and sustainable development. However, valuable interventions in countries, such as Nepal (68, 69), Uganda (70, 71), Rwanda (72), Tanzania (56, 73), Ethiopia (74), Afghanistan (75), and Madagascar, (76) have been conducted and positive results have been reported. In addition to published studies in this area, it should be noted that many successful interventions may have taken place before the announcement of this global policy in 2008, which has not been published with the aim of UHC, and these studies are likely to be lost.

Each country, taking into account its own needs and specific circumstances, undertakes specific interventions to achieve UHC. Considering the economic conditions of countries, the results of the present study show that most of the interventions have been performed in the field of financing or financial protection functions. Thus, most interventions in these countries have focused on the insurance system and targeted the poor people or specific groups of society (69, 72, 77-81).

Also, one of the issues that mostly reformed by countries is the payment and premium systems (76, 82-84). Similarly, a study by Elio Borgonovi and Emilia Compagni (2013) indicates that social, economic, and political sustainability are key drivers of health interventions and reforms in achieving UHC (85). Also, in many studies, social health insurance (SHI) (86), premium (50, 51, 87), cost containment (88), national health insurance system (89-91), tax revenue (92, 93), risk-pooling mechanisms (4, 92) and strategic purchasing (94) are crucial factors in the financial protection function of achieving UHC, such that positive reform interventions in these areas can draw countries one step closer to achieving their original goal.

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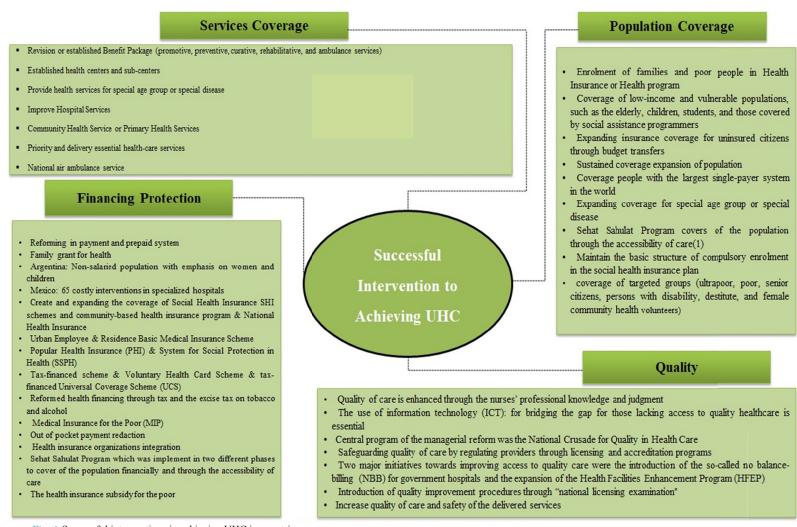
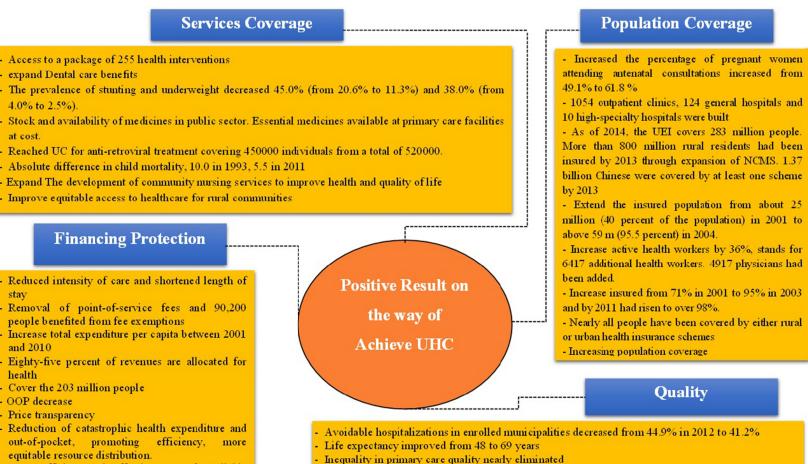


Fig. 4. Successful interventions in achieving UHC in countries



- More efficient and effective use of available resources, especially in district-level annual health
 - Greater protection through quality standards for consumers
 - Better-quality care

Fig. 5. Achieving positive results on the way to achieving UHC

plans

That is why financing function or the financial protec tion dimension and interventions in them can be considered as an essential component of achieving UHC. The results of the study showed that successful interventions in the countries under study have positive results such as reduction in the intensity of care and a decrease in length of hospital stay (82, 95), elimination of costs of services that cause overuse of health services (76), allocating a large percentage of income to health (79), reducing out-ofpocket payments (96), and so on.

The results show that most of the interventions in the field of service coverage are targeted specific groups, such as children, adolescents, women, and specific patients, which could be due to the high vulnerability of women and children under 5 years old and the financial inability of these groups in LMICs. Also, designing dedicated and fully customized service packages can be much more efficient and effective than comprehensive service packages designed for the population of a country without considering the specific needs of different groups. With regard to specific diseases, special conditions, such as chronicity, being erodible, and cost consuming, can lead to catastrophic expenditure; for this reason, people with specific illnesses are covered by free services. Interventions in service coverage show that most interventions are in areas such as modifying or creating service packages based on people's needs at all levels of service provision or for different age groups and specific diseases, and also implementing fundamental interventions in primary health care or community-based health care. Interventions in this area have been in line with the findings of studies that have identified service packages as a major and very effective factor in achieving UHC (15, 88, 97-100).

The study showed that most of the interventions in the field of population coverage were related to the coverage expansion in specific groups or diseases (69, 73, 76, 79, 80, 101-106). Countries are also trying to cover poor households and individuals by implementing mandatory or voluntary insurance programs to cover more population (15, 79, 81, 107, 108). Thailand, for example, with the aim of covering its population considering socioeconomic conditions, by implementing a 30 Bahat health plan, could increase its insured population from 40% to 95% within 4 years, which is also considered one of the most successful interventions in this field (109). China has also been able to cover its entire population by implementing urban and rural health insurance plans (77, 78).

Studying the results of interventions in different countries showed that most of the interventions targeted financial protection and most of the published results also were in this area. This could be due to the importance of financing and reimbursement in the health system and financial protection of citizens against illness, as interventions in this area can reflect an early impact and can be better monitored and evaluated. However, results from the quality dimension are less reported. One of the reasons may be that interventions in this field are new and, on the other hand, the long-term impact of quality improvement interventions can be effective in publishing less studies in this area. Delays in the considering of the quality of health services by the WHO as the fourth dimension could also be another reason for the low publication of quality interventions and their effects on UHC.

The results of the present study show that quality interventions with 18 cases had the least report. However, studies on UHC have identified the quality of care and regulatory mechanisms for quality as one of the most influential factors in achieving UHC (36, 55, 110-112). One of the reasons for low interventions in this dimension could be the overemphasis of countries on the quantity of services provided and coverage of the majority of the population. It can also be attributed to the late introduction of this dimension and its recognition as the hidden dimension of UHC. While implementing programs related to other dimensions of public health coverage, countries need to take into account the quality and its monitoring, so that the interventions can be more efficient and effective. However, given the importance of quality in health, countries have taken important interventions, such as training and using experienced nurses (103), using information technology to reduce medical errors and filling the gap in access to health services (113), maintaining quality of service by licensing qualified individuals and hospitals accreditation (16, 114), and improving patient safety (34). However, the results of interventions in the quality dimension indicate maintaining and enhancing the quality of health care for service receivers through the implementation of quality standards and increasing users' satisfaction with services and eliminating the inequality in accessing quality health services in some countries (84, 115, 116).

One of the limitations of this study was the use of only English and Farsi languages to search and collect studies and documentation based on the authors' familiarity with these 2 languages. However, reports and documentation of successful interventions in countries may have been published and documented in other languages than have not been reviewed in this study. It should be noted that the present study examined only successful interventions that had good and significant results for countries. The reader should note that also some countries on the path to achieving UHC have had unsuccessful and costly interventions that can be used as a model to learn from failures and that only focusing on successful patterns cannot be effective.

Conclusion

Despite the issues raised in achieving UHC and necessity of interventions in the dimensions of UHC, and in light of the results, it should be made clear that in addition to providing the countries with the appropriate technical conditions on this path, the financial resources and political commitment of officials in all disciplines are essential, as the continuity and sustainability of this policy will achieve UHC. The results show that each country, depending on their particular economic, social and political circumstances have selected appropriate intervention mechanisms and tools for achieving UHC and have intervened. Each country has also been able to achieve significant progress in this area by identifying its weaknesses and prioritizing the most important ones for intervention, have achieved remarkable success in this regard, and have taken a step forward. Therefore, lessons learned from successful interventions in these countries can be highly efficient and effective through localizing and combining with target country' features.

Implications for Research and Policy

The present study provides a comprehensive and clear view of successful interventions performed in most countries at different income levels that seek to achieve UHC, and summarizing and reporting these successful interventions can be a model and guide for other countries to avoid the costs and mistakes. The results showed that countries have paid little attention to the quality of services. Therefore, more attention is needed to design and implement comprehensive interventions and policies to improve the quality of services in achieving UHC. Valid interventions with strong methodology and the use of control groups are recommended for future studies. Specific methodological evaluation of interventions is also recommended for future studies.

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Conflict of Interests

The authors declare that they have no competing interests.

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Appendix 1. Characterized of studies included and summarized in the study	
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Author & Year	Country	Dimensions	Health System Function	Innovations/ Intervention	Result
Chan, W. Y, et al, 2017 (1)	China & Hong Kong	Services Coverage Population Coverage Quality	Stewardship Services Delivery	 The Central government of China established CHS centers and sub-centers in place in every neighborhood within a 15-minute walking distance to ensure close-to-home primary care. Community Nursing Services CHN is improving health care accessibility in China; and the scope of CHN service places much focus on promoting public health The government provides financial support on the basic public health (BPH) service package, which is determined by the number of citizens using CHN centers' services. The BPH services are broad and comprehensive, including (a) to establish health profiles and medical records; (b) to provide health education; (c) disease prevention and vaccination; (d) to provide health management for the elderly, pregnant women, children and citizens with hypertension, diabetes or serious mental illness; (e) to control infectious diseases and public health emergencies and (f) to monitor public health. 	 Quality of care is also enhanced because the nurses' professional knowledge and judgment ensure that the patients are properly assessed, served, and most importantly, referred to the other health care professionals for appropriate care. Community-based nursing services present a great opportunity for nurses to enhance their contributions to Universal Health Coverage. The development of community nursing services has expanded the scope of nursing services to those in need of, not just hospital-level nursing care, but more holistic care to improve health and quality of life.
Cheng, S. H. et al, 2012 (2)	Taiwan	Financial Protection	Financing	 Review of impacts of implementation diagnosis-related group (DRG) payments on health care provider's behavior under a universal coverage system in Taiwan. Reforming of payment system 	- The DRG-based payment resulted in reduced intensity of care and shortened length of stay.
de Andrade, L. O. et al, 2015 (3)	Brazil Chile Colombia Cuba	Financial Protection Population Coverage Quality	Stewardship Financing Services Delivery	 Brazil: The conditional cash transfer (family grant) was established in 2003 to ensure access to social rights for health care to provider social rights for health care. The program unified several existing programs (School Grant, Food Grant, Food Card, and Gas Grant) and in 2011 became part of the broader government strategy Plan (Plan Brazil without Misery) to raise population income and welfare. The Plan Brazil without Misery targets Brazilian households with per person incomes of less than R\$70 (about US\$30). The program has three axes: productive, second; access to public services and third, income transfers. Chile: (Chile Grows with You) is a system of protection for early childhood development, with a mission to monitor, protect, and uphold the rights of all children and their families by providing programs and services, which enable special support for the poorest households that account for most vulnerable families. Colombia: (From birth to Forevet) is the National Strategy for Comprehensive Care in Early Childhood in Colombia. The strategy aims to unify the efforts of the public and private sectors, civil society organizations, and international cooperation to improve the experience and outcomes of early childhood in Colombia. The strategy a community nursery program that provided nutrition and child care for children from poor households. The strategy focuses on strengthening primary health care, including through participatory and social mobilization approaches, with the local authorities playing an important part in supporting progress towards universal health coverage and wider sustainable development objectives. Cuba: Cuba's Dengue Prevention Program and Eradication is a comprehensive set of intersectoral interventions aimed at elimination and control of Aedes aegypti mosquito through environmental sanitation, hygiene, and collective household actions. Underpinned by legislation, the program includes the local government, the Mininstry of Public Health	 Brazil: The Bolsa Família program (family grant) in Brazil is widely regarded as a success. It has lifted millions of people out of poverty, supported people with the greatest unmet need to access health services and has contributed to progressive realization of universal health coverage. Between 2002 and 2011, the percentage of pregnant women (in the target population) attending seven or more antenatal consultations increased from49.1% to 61.8%. Inter sectoral action through Bolsa Família has also contributed to improvements in health and action on social determinants. Integration of health and education policies in Bolsa Família expanded access for the poorest groups in Brazil and in 2003–13, contributed to substantial increases in immunization and reduced child mal nutrition, and in 2004–09 to reductions in under-5 mortalities. Chile: The evidence so far suggests positive effects in reducing child poverty and increasing access to educational opportunities and health. Colombia: the strategy is a platform to enhance coverage and quality of health care. Cuba: The program has led to a reduction of dengue infections and improved environmental management for vector control.

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Author & Year	Country	Dimensions	Health System Function	Innovations/ Intervention	Result
Edward, A. et al, 2015 (4)	Afghanistan	Services Coverage Population Coverage	Stewardship Resources Genera- tion Services Delivery	 Innovative strategies of paired male and female Community Health Workforce CHWs, institution of a special cadre of community health supervisors, and community health councils were introduced as systems strengthening mechanisms. CHW: The deployment of volunteer CHWs by the Ministry of Public Health implemented in 2003, to improve equitable access to healthcare for rural communities. One male and one female CHW were selected and trained for each village health post, serving up to 150 house-holds. The CHW job description included treatment of childhood diseases, provision of contraceptives, health promotion, and demand-creation for preventive and maternal health services at the supporting health facility. 	 Formative assessments evidenced that CHWs were highly valued as they provided equitable, accessible and affordable 24-h care. Improve equitable access to healthcare for rural communities
Frenk, J and Gomez- Dantes, O. 2018 (5)	Latin America	Services Coverage Population Coverage Financial Protection	Stewardship Services Delivery Financing	 Argentina: Plan name: Plan Nacer -2003 -Non-salaried population with emphasis on women and children- Maternal and child services provided in ambulatory facilities with gradual expansion to surgical services for congenital heart diseases Chile: Plan name: Plan de Acceso Universal a Garant IAS Explicitas (AUGE) 2005, all the population- 80 interventions that cover around 60% of the national burden of disease. Colombia: Plan name: Plan de Beneficios en Salud (POS) 1993- All the population- Comprehensive health packages that includes essentials and costly interventions Honduras: Plan name: Plan de Beneficios en Salud (PBS) 2003- Poor, rural population with emphasis on women and Children-Maternal and child ambulatory services, with emphasis in health promotion and preventive interventions. Mexico: Plans name: Catalogo Universal de Servicios Esenciales de Salud (CAUSES). Fondo de Protecci_on contra Gastos Catastroficos (FPGC). Seguro, 2003 -Non-salaried population-280 essential interventions provided by ambulatory facilities and general hospitals (CAUS-ES) and 65 costly interventions provided in specialized hospitals (FPGC). Peru: Plan name: Plan Esencial de Aseguramiento en Salud or PEAS, 2009 -All the population-140 essential interventions with emphasis on maternal and child are 	 These programs were the initial reforms in these countries to achieve public health coverage, which hoped to achieve public health coverage because of the progress and positive effects of implementing these reforms in these countries. To achieve this important goal, these countries need experts to im- plement innovative reforms tailored to the needs of the country.
Frenk, J. et al, 2009 (6)	Mexico	Services Coverage Financial Protection Population Coverage	Stewardship Financing Resources Genera- tion	 In 2003, the Mexican Congress approved a reform establishing the System of Social Protection in Health, whereby public funding for health is being increased by one percent of the 2003 gross domestic product over seven years to guarantee universal health insurance. In the System of Social Protection in Health, funds are allocated into four components: (i) stewardship, information, research and development; (ii) community health services; (iii) non-catastrophic, personal health services; and (iv) high-cost personal health services; (iii) non-catastrophic, personal health services; and (iv) high-cost personal health services; (iii) non-catastrophic, personal health services; and (iv) high-cost personal health services; a package of essential interventions provided in outpatient settings and general hospitals and financed through a fund for personal health services, and a package of highcost, specialized interventions financed through the Fondo de Protección contra Gastos Catastróficos Fund for Protection against Catastrophic Expenditures. The Seguro Popular will offer coverage to all Mexicans not protected by any other public insurance scheme: the self-employed, those who are out of the labour market and those in the informal sector of the economy. The Seguro Popular is financed, first, through a social contribution from the federal government. Second, since there is no employer, financial coresponsibility is established between the federal and state governments to generate the so-called federal and state solidarity contributions. The third contribution comes from families and is tied to income, as in the case of social security institutions. 	 In a phase of seven years, this will provide access to formal social insurance, to the 45 million Mexicans who had been excluded from it in the past. The new Seguro Popular scheme guarantees access to a package of 255 health interventions targeting more than 90% of the causes leading to service demand in public outpatient units and general hospitals, and a package of 18 costly interventions. The population with social protection in health increased 20% between 2003 and 2007. Expenditure for health increased from 4.8% of the GDP in 1990 to 5.6% in 2000 and to 6.5% in 2006. Public health expenditure as a percentage of total health expenditure increased from 43.8% in 2002 to 46.4% in 2006. The budget of the MoH increased 72.5% in real terms between 2000 and 2006. The proportion of the MoH health budget devoted to investment increased from 3.8% in 2000 to 9.1% in 2006, and because of this, the MoH was able to construct 751 outpatient clinics and 104 hospitals, including high-specialty hospitals in the poorest states, between 2001 and 2006. In the public sector as a whole, 1054 outpatient clinics, 124 general hospitals and 10 high-specialty hospitals were built in the same period.

Appendix 1. Characterized of studies included and summarized in the study

Author & Year	Country	Dimensions	Health System Function	Innevations/ Intervention	Result
Garchitorena, A. et al, 2017 (7)	Madagascar	Services Coverage Financial Protection Population Coverage	Stewardship Services Delivery Financing	 A national policy for universal health coverage was signed in December 2015, focused primarily on developing a national health insurance system that pools contributions from taxes, external donor grants, and other sources, to create a prepaid system that reduces fees at the point of service. Since 2014 two pilot programs to remove access barriers by providing primary health care services free of charge were implemented in a rural district of Mada- 	 The two programs' removal of point-of-service fees was associated with health care utilization increases of nearly two-thirds for all patients, more than half for children under age five, and more than 25 percent over two years in maternity consultations. Baseline outpatient utilization rates were higher at major
				 gascar. Intervention 1: The conditions of the Vatovavy-Fitovinany region prompted the World Bank to include it in a project for Emergency Support to Critical Education, Health, and Nutrition Services, implemented in five regions in extreme need across Madagascar. The health component of this project aimed to increase access to health care by providing an essential package of services at no cost for children under age five and pregnant women. The program was implemented in Ifanadiana at all thirteen major health centers but did not cover the districts six other health centers, which were classified as basic health centers. The essential services covered prevention of and treatment for a wide range of conditions. The program was initiated in Ifanadiana in February 2014 and was carried out by local nongovernmental organizations through a voucher system. Every woman attending the health center for antenatal, delivery, or postnatal care (first six weeks) or escorting a child under age five with any illness received a voucher from a program agent. After consultation at the health center, the patient could preset her voucher at the center's dis- 	 health centers than at basic health centers for all patients (relative change: 1.60) and for children under age five (RC: 1.44) but not for maternity care. Each additional health care provider presents in the health center increased utilization (RC: 1.09). The direct costs of the two reimbursement programs were low. In the period from the beginning of each program until December 2015, 90,200 people benefited from fee exemptions in Ifanadiana health centers, with an average cost of US\$0.60 per patient.
				 pensary to receive free medicines prescribed by the center's Ministry of Health staff. Intervention 2: In early 2014 Madagascar's Ministry of Health also partnered with a nongovernmental organization, PIVOT, to create a model health district for the country based on the WHO's framework of six building blocks of health system strengthening. Ifanadiana was chosen as the place to test the model health district interventions. This program's first phase focused primarily on the catchment area of four major health centers, representing approximately one-third of Ifanadiana's population. In these health centers, supply-side initiatives such as infrastructure renovations and support for different clinical programs have been progressively imple- 	
				mented over the first two years. The most discrete policy change implemented in this area was a program to eliminate point-of-service payments for all patients seeking care at the four targeted health centers. This program, covered costs of forty essential medicines and twenty medical supplies Some additional health system strengthening activities span the entire district, such as hiring medical and non-medical staff at health centers to comply with Ministry of Health policies, training medical staff to improve quality of care, and establishing a referral ambu- lance network to facilitate access to secondary care.	

Author & Year	Country	Dimensions	Health System Function	Innovations/ Intervention	Result
Suneela Garg, 2018	India	Services Coverage	Stewardship	- From medical coverage to achieving holistic health: A paradigm shifts from	- The advancement of UHC in India shows a steady
(8)		Quality	Services Delivery	provision of essential to quality health care at the primary care level. These	evolution.
			Resources Generation	wellness centers will provide comprehensive healthcare for the management of	- Sustainable development regarding universal access to
			Financing	non-communicable diseases with lifestyle modifications, maternal and child	good education, sanitation, clean energy, safe environ
				care, adolescent health, nutritional and health education, promotion of menstrual	mental and sound infrastructure which are essential for
				hygiene, and free essential drugs and diagnostic services. Basic dental, ENT and	realizing and maintaining a state of good health is in a
				ophthalmology services will also be provided at these centers.	state of acceleration.
				- Primary healthcare with focus on systems beyond medicine: There is a renewed	
				governmental focus on hygiene sanitation, housing, clean indoor air by provi-	
				sion of clean fuels, and expansion of immunization service and coverage. All	
				these initiatives that influence the health of the poor, vulnerable, and under-	
				served population have achieved excellent success in their respective domains.	
				- Focus on protecting maternal health: The Maternal Death Surveillance Response	
				program is geared toward reducing maternal mortality and near misses by im-	
				proving quality of maternal death reporting with the appropriate capacity build-	
				ing. It involves tracking and identifying the cause of every maternal death at	
				both the facility and the community level and using the information generated	
				for health system strengthening and capacity building for precluding future	
				instances.	
				- Promoting gender equity: There is a welcome and sustained focus on ending	
				female feticide, improving child sex ratio and education of the girl child through	
				the campaign of the government of India called (Save the girl child - Educate	
				the girl child). Promoting menstrual hygiene by the distribution of free of cost	
				menstrual pads, prevention and control of anemia by the distribution of weekly	
				iron-folic acid tablets in schools, construction of toilets in all schools, scholar-	
				ships for girls from vulnerable sections of society.	
				- The use of information technology (ICT): for bridging the gap for those lacking	
				access to quality healthcare and reaching the unreached is essential. The various	
				ICT application in healthcare being explored in India include telemedicine,	
				vaccine and drug inventory control and storage, training of health workers,	
				disseminating health education, promotion of behavior change, drug adherence	
				in tuberculosis (TB).	
				- Promotion of generic medicines and cheaper implants to significantly lower	
				out-of-pocket costs: The Affordable Medicines and Reliable Implants for Treat-	
				ment schemes reflect prioritization toward amelioration of routine treatment	
				costs for patients lacking insurance coverage for their outpatient expenses. Strict	
				quality control measures and ubiquitous drug availability and affordability	
				through promotion of entrepreneurial opportunities are the key program drivers.	
				- Public-private partnerships (PPP): Collaborative efforts between private and	
				public sector for improving health service delivery, expansion of coverage, and	
				last mile service delivery have found significant traction in the past two decades.	
				Furthermore, utilizing PPP in critical national health programs such as TB to	
				improve drug adherence and cure rates in patients reaching private sector has	
				received growing impetus.	
				- Strengthening of national programs in TB and HIV-AIDS	

Appendix 1. Characterized of studies included and summarized in the study

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Author & Year	Country	Dimensions	Health Sys- tem Function	Innovations/ Intervention	Result
He, A. J and Wu, S. 2017 (9)	China	Financial Protection Population Coverage	Stewardship Financing	 The landmark health reform plan announced in 2009. In this health reform expanding the coverage of SHI schemes stands out as one of the five strategic objectives. An additional US\$125 billion equivalent to 53 % of the country's total health expenditures in 2009 has been spent in the first phase of the reform from 2009 to 2011. Urban Employee Basic Medical Insurance Scheme (UEI): Launched in 1998 after successful pilots in two cities, the Urban Employee Basic Medical Insurance Scheme (UEI) is the first initiative to fulfill the government's commitment to universal coverage. All urban employees are required to join, by paying 2 % of their payroll income, which is matched by an employer's contribution of 6 %. The UEI is administered by human resources and social security bureaus at the city level, which have a certain degree of discretion in setting the rate of contribution, deductibles, copayments, reimbursement ceilings, and the methods of collecting premiums as well as paying providers. Upper-level social security authorities exert oversight on the operation of local schemes. New Cooperative Medical Scheme (NCMS) in 2003: As a voluntary insurance program, the NCMS is pooled at the county level and administered by local health bureaus, with vertical supervision from the central and provincial health authorities. The scheme is funded by enrollees' premiums (about 20 %) and generous subsidies from both central and local governments (about 80 %). In order to avoid adverse selection, enrolment is required at the house-hold level. Urban Resident Basic Medical Insurance Scheme (URI): Introduced in 2007, URI aims to insure students, children, and other unemployed urban residents, who were not previously protected by the UEI. Like the NCMS, the URI was designed as a voluntary program, and requires enrollment at the household level to reduce adverse selection. Similar to the arrangements of the NCMS, the URI is also financed by both individual contribution and government subsidies, at	 As of 2014, the UEI covers 283 million people. With consideration to strong political commitment and administrative mobilization, the NCMS has expanded dramatically in coverage, despite its vol- untary nature. More than 800 million rural residents had been insured by 2013. All SHI schemes have expanded significantly in the past decade: 1.37 billion Chinese were covered by at least one scheme by 2013, an achievement largely attributable to the strong political will of the central leadership, generous government subsidies, and the high mobilization capacity of the country's adminis- trative machinery. In parallel with the marked increase in outpatient visits, hospital admissions more than doubled be- tween 2003 and 2011; the effect was most significant in rural areas. ** In other words, the reform has not yet made significant progress towards its professed goal of providing affordable care. ** Significant disparities exist across the three schemes as well as different regions. As the most generous scheme, the UEI has wider coverage and offers higher benefits than UR1 and NCMS, thanks to its greater financing capacity. The average UEI premium is ten times higher than those of other schemes.
Hongoro, C. et al, 2018 (10)	Uganda	Population Coverage	Stewardship	 A project entitled "Supporting Policy Engagement for Evidence-based Decisions (SPEED) for Universal Health Coverage (UHC) in Uganda" was launched by the School of Public Health at Makerere University (MakSPH) in 2015. The overall objective of SPEED Project is to strengthen capacity for policy analysis, implementation monitor- ing and analysis of impact and thereby contribute to accelerating progress towards UHC in Uganda. The SPEED project seeks to conduct 3 barometer surveys over its 5-year life span (2015–2020). Policy Implementation Barometer (PIB) survey which is a mechanism to reveal gaps in policy implementation and thereby provide feedback to the decision makers about the implementation of a selected set of policy programmes for UHC. PIB is proposed as a mechanism to provide feedback to the decision makers about the implementation levels (macro, meso and micro level). The main objec- tive is to establish the extent of implementation of malaria, family planning and emergency obstetric care policies in Uganda and use these results to support stakeholder engagements for corrective action The specific objectives of the PIB study are (1) To assess the perceived appropriateness of policy programs imple- mented to address identified policy problems, (2) To assess, using priority parameters, the extent to which the pre- requisites for implementation are established, (3) To determine the enablers and constraints to implementation of the selected policies , (4) To compare on-line and face-to-face administration of the PIB questionnaire among target respondents and (5) To document stakeholder responses to PIB findings with regards to policy implementation, awareness and actions. The main objective is to establish the extent of implementation of malaria, family planning and emergency obstetric care policies in Uganda and use these results to support stakeholder engagements for corrective action. 	 UHC objectives for Uganda by ensuring that the selected policy cases for the barometer are relevant to the UHC agenda and government priorities. Application of an accountability framework such as a policy implementation barometer will foster a sense of responsibility amongst implementers and upstream monitoring will therefore become more effective and hopefully the impact will improve. Policies succeed or fail for a variety of reasons and this study seeks to unpack the drivers and bottlenecks in the implementation of specific policies towards UHC in Uganda that is malaria, family planning and emergency obstetric care. These are transnational priority health areas affecting most countries in the sub-region.

Author & Year	Country	Dimensions	Health System Function	Innovations/ Intervention	Result
Hughes D and Lee- thongdee S, 2007 (11)	Thailand	Population Coverage	Stewardship Services Delivery	 The 30 Baht Scheme: is a new public health insurance scheme that provides treatments within a defined benefit package to registered members for a copayment of 30 baht. The 30 Baht Scheme filled the coverage gap left by the existing public health insurance schemes (US\$0.80; 0.64 euro; and £0.43) per chargeable episode. All members register with a contracting unit and receive a gold card entitling them to care in their home area. Elderly people, children, and poor people receive a special version of the registration card and pay no fee. Drugs prescribed are limited to those on a national list, some high-cost or chronic disease treatments are subject to cost ceilings, and there was initially no entitlement to antiretroviral therapy or hemodialysis (although these were later brought within the scheme). Treatment outside the area of registration is limited to accident and emergency care. Finance for the scheme comes mainly from public revenues paid to local contracting units on the basis of population. 	 The 30 Baht Scheme extended the insured population from about twenty-five million (40 percent of the population) in 2001 to above fifty-nine million (95.5 percent) in 2004. Although basic coverage was achieved remarkably quickly, the 30 baht project required a transformation of the re- source allocation system.
Kingue, S, et al, 2013 (12)	Cameroon	Population Coverage	Stewardship Resources Generation Financing	 The Cameroonian government developed an HRH emergency plan for the years 2006 to 2008. The main strategy for reducing HRH problems in Cameroon is therefore to capitalize on the existing potential – primarily by improving the coordination and effectiveness of the key stakeholders' current efforts to improve the health system. Between 2007 and 2010, Cameroonian HRH received increased financial support from external sponsors. Over this period, the International Monetary Fund and the World Bank – via the Heavily Indebted Poor Country initiative – and the French government – via the Contrat de Désendettement et de Développement – together contributed about 7359 million African Financial Community (CFA) francs towards the salaries of health workers in Cameroon. The HRH emergency plan for 2006–2008 did not solve the maldistribution of HRH in Cameroon, where health care is concentrated in urban areas; the low allocation of financial resources for HRH, or the absence of an accreditation system for HRH training. External resources were therefore mobilized to develop new approaches to address these challenges. The mobilization process started in 2007, with a 2-day conference on HRH organized by the Global Health Workforce Alliance. This conference resulted in the Douala Plan of Action.4 In 2010 – with financial support from the World Health Organization (WHO), the Global Health Workforce Alliance. This unformed the formally adopted and implemented a "country coordination and facilitation" process. The aims were to clarify the main challenges to effective HRH formally adopted and implemented a "country coordination and facilitation" process. The aims were to clarify the main challenges to effective HRH in Cameroon and to subsequently create an integrated, participatory and comprehensive HRH-development strategy – for the years 2011–2015 – that would address these challenges. 	 the Cameroonian government in response to the HRH crisis, Implementation of this plan led to the recruitment of 5400 health workers, the opening of new training schools for health workers, the revision of the training curricula for paramedical staff, and a simplification of the process that contract or temporary workers need to follow to become permanent employees in the public sector. Between 2007 and 2009, the number of active health workers in Cameroon increased by 36% (Implementation of the HRH emergency plan resulted in the recruitment of 6417 additional health workers between 2007 and 2009.), Such recruitment increased the number of active health workers in the country from 11528 in 2005 to 15720 in 2009 – a 36% increase. Lessens: In the improvement of HRH, strong leadership is needed to ensure effective coordination and communication between the many different stakeholders. A national process of coordination and facilitation can produce a consensus-based view of the main HRH challenges. Once these challenges have been identified, the stakeholders can plan appropriate interventions that are coordinated, evidence-based and coherent.

Author & Year	Country	Dimen- sions	Health Sys- tem Function	Innovations/ Intervention	Result
Felicia Marie Knaul and Julio Frenk, 2005, (13)	Mexico	Finance protec- tion Popula- tion Cover- age Services Cover- age	Stewardship Financing Services Delivery	 System for Social Protection in Health (SSPH): The reform was passed into law in April 2003, and the new insurance scheme, called the System for Social Protection in Health (SSPH), went into operation January 2004 with the goal of achieving universal coverage by 2010. The Popular Health Insurance (PHI) is the operational program of the new system. The affiliation process runs from 2004 to 2010, so that 14.3 percent of the approximately eleven million families that make up the uninsured population will be included each year. Preference must be given to families from the lowest income deciles. Reducing out-of-pocket payments tend to be inequitable, unjust, and inefficient a cause and a result of the imbalances discussed above is atarget of the reform. A new public insurance scheme (PHI) was devised to finance personal health services. For funding purposes, personal health services are divided between an essential package of primary- and secondary-level interventions in ambulatory settings and general hospitals, and a package of high-cost tertiary care financed through the Fund for Protection against Catastrophic Expenditures. The reform has four main objectives: (1) to generate a gradual, predictable, financially sustainable, and fiscally responsible mechanism to increase public spending in health so as to correct the existing disequilibria; (2) to stimulate greater allocational efficiency by protecting spending for public health interventions that are cost-effective but tend to be underfunded; (3) to protect families from excessive health spending by offering a collective mechanism that fairly manages the risks associated with paying for personal health services; and (4) to transform the incentives in the system by moving from supply-side to demand-side subsidies to promote quality, efficiency, and responsiveness to users. The logic of the reform separates funding between personal and community health services are associated with low risk, high-probability health events.	 Through a new system of social protection in health that will offer public insurance to all citizens, the reform is expected to reduce cata- strophic and out-of-pocket spending while promoting efficiency, more equitable resource distribution, and better-quality care.
Knaul, F. M. et al, 2012, (14)	Mexico	Finance protec- tion Quality	Stewardship Financing Services Delivery	 The 2003 reform established a system encompassing all three dimensions—risk, patient, and finance— embedded in the concept of social protection of health. Specifically, public health interventions, institutions and dedicated financing are providing protection against health risks; system-wide initiatives that enhance patient safety, effectiveness, and responsiveness are protecting the quality of health care and Seguro Popular is continually expanding protection against the financial shocks of disease and disability. The financial reform was complemented with supply strengthening provisions, including hospital management reform, improved schemes for drug supply, outcome-oriented information systems, a master plan for long-run investment in health infrastructure, and technology assessment. Innovations to promote protection for patients and against health risks: Emphasis was also placed on public health through the following instruments: (1) a protected fund for community services; (2) a set of personal health promotion and disease prevention guides (similar to the traditional immunization certificates) with a gender and life course perspective; (3) a comprehensive reorganization of regulatory activities through a new public health agency—the Federal Commission for the Protection against Health Risks (COFEPRIS) charged with safety and efficacy approvals of new drugs and medical devices, food safety regulations, enforcement of environmental and occupational health to enhance security through epidemiological surveillance and improved preparedness to respond to emergencies, natural disasters, pandemics, and bioterroism. To reinforce patient protection, the central program of the managerial reform was the National Crusade for Quality in Health Care. The purpose of this program was to enhance patient safety, improve responsiveness, manage facility accreditation and provider certification, implement quality improvement initiatives, measure technical and interpersonal quality,	 Evidence shows significant progress in reduction of catastrophic health expenditure and impoverishing health expenditure. Catastrophic and im- poverishing health-care payments from 1992 to 2010 show a long-run downward trend. In 2000, 3.1% of households had CHE and 3.3% had IHE. By 2010, the values had dropped to 2% for CHE and 0.8% for IHE. The differences between households with and without social security are decreasing. The differential share of out-of-pocket spending in household income and CHE fell for all groups between 2004 and 2010, especially for families without social security, IHE fell from 0.2% to 0.1% for households with social security, and from 2.1% to 1.6% for the rest of the population. Seguro Popular is successfully closing the gaps in health financing across population groups the gap in the per capita allocation of public resources fell more than 70% be- tween 2004 and 2010.

Appendix 1. Character Author & Year	Country	Dimensions	Health System	Innovations/ Intervention	Result
Limwattanano	Thailand	Finance	Function Financing	- Pre-reform:	- Pre-reform:
et al, 2016 (15)	I hailand	Finance protection Population Coverage	Financing Stewardship Services Deliv- ery	 The single largest scheme was a non-contributory Medical Welfare Scheme that entitled the poor, children, the elderly (60+), the disabled and a few other groups to care in public facilities free of charge. This tax-financed scheme covered 32% of the population in 2001. The annual budget per enrollee was just 273 Baht (~\$6.82) in 1998 (excluding salary costs). The second largest programme prior to the reform was a Voluntary Health Card Scheme in which 21% of the population was enrolled in 2001. For 500 Baht (\$12.50) per year, households could purchase a health card that entitled up to five household members to free care at public facilities. The private contribution was supplemented by a 1000 Baht tax-financed government subsidy. With over four enrollees per card on average, the budget was often insufficient to provide adequate care and, similar to the welfare scheme, there was substantial cross subsidization. Active and retired government employees and their dependents were and continue to be covered by an entirely tax-financed scheme that provides completely free care at public health facilities. This Civil Servants Medical Benefit Scheme covered 8.5% of the population in 2001. Operating under an uncapped fee-for-service system with a generous benefit package, spending per capita was almost 2500 Baht (\$62.50) per enrollee in 1998. Post-reform: All Thai citizens not covered by the two employment-based schemes were given entitlement to coverage by the newly instituted, tax-financed Universal Coverage Scheme (UCS) that replaced the welfare and voluntary enrollment schemes. Starting in April 2001 with its introduction in six pilot provinces, the scheme was expanded to cover 15 provinces in June 2001 and the remaining provinces by October of that year. Beneficiaries of the UCS are entitled to inpatient treatment, ambulatory care and prescribed from a restricted list containing a large proportion of generics. On top of the coverage extension, the main in	 Ten years before the universal coverage reform in 2001, two-thirds of Thai citizens had no formal health insurance. Expansion of various public health insurance schemes cut this fraction to less than 30% just before the reform. The second largest programme prior to the reform was a Voluntary Health Card Scheme in which 21% of the population was enrolled in 2001. Post-reform: The percentage of the population covered by some form of health insurance jumped from 71% in 2001 to 95% in 2003, and by 2011 coverage had risen to over 98%. In the post-reform period, such that real total expenditure per capita doubled between 2001 and 2010, and public health expenditure per capita increased by almost 170%. Due to rapid economic growth, total health spending as a share of GDP increased by only 0.6 of a percentage point from 2001 to 2010. Household OOP spending held roughly constant in real terms and fell as a percentage of GDP. The reform had the largest and most significant impact on household spending on ambulatory care, which was reduced by 38%, on average.
Long, S. K. 2008, (16)	Massachu- setts USA	Population Coverage	Stewardship Financing Services Deliv- ery	 Massachusetts health reform includes expansions to the Medicaid program (called MassHealth), the creation of a new program that provides income-related subsidies for health insurance (the Commonwealth Care Health Insurance Program, or CommCare), the creation of a new purchasing arrangement (Commonwealth Choice, or CommChoice) via the new Commonwealth Connector, health insurance market reforms, and requirements that both individuals and employers participate in the health insurance system. Key Components of the Massachusetts Health Reform: Expansion of MassHealth (Medicaid) to children up to 300% of poverty Expansion of MassHealth Insurance Partnership Program, which provides insurance subsidies and employer tax credits to workers in small firms to 300% of poverty. Increase in enrollment caps for MassHealth programs for long-term unemployed adults (eligible up to 100% of poverty), disabled working adults (eligible at any income level), and people with HIV (eligible up to 200% of poverty). Restoration of dental, vision, and other MassHealth benefits to adults. Creation of new MassHealth wellness benefit/incentive program Increase in hospital and physician rates under MassHealth. Creation of Conmector Authority, which provides purchasing vehicle for individuals without access to employer coverage and small employers (<51 employees) via CommChoice. Creation of New Young Adult products for up to 26-year-olds who do not have access to employer coverage Extend dependent coverage rules up to age 26 or two years after loss of IRS dependent status, whichever is earlier Requirement that employers with 11+ employees offer access to Section 125 plan or face potential of a "free-rider surcharge" if employees use substantial amounts of care through the Health Safety Net Trust Fund. Requirement that employers must make a "fair and reasonable" contribution toward the cost of health insurance or pay a "fair share"	 The uninsurance rate for adults ages 18-64 in Massachusetts dropped by almost half. As a result, in fall 2007, roughly one year after the state's health reform initiative began; nearly 93 percent of nonelderly adults in the state were insured. For adults with incomes below 300 percent of poverty (the target population for CommCare), the uninsurance rate dropped by nearly eleven percentage points as a result of health reform, down to about 13 percent in fall 2007. Dental care benefits were expanded under MassHealth. There were significant gains in access to care across the overall population under reform, with the gains concentrated among low-income adults. There were very few changes in access to care for thigher-income adults, however, the changes that were observed suggest that there have been some improvements in access to care for that group as well.

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				zed in the study	
Author & Year	Country	Dimensions	Health System Function	Innovations/ Intervention	Result
Lu, C. et al, 2012 (17)	Rwanda	Finance protection Services Coverage	Financing Services Delivery Stewardship	Mutuelles de sante' (Mutuelles): is a community-based health insurance program established by the Government of Rwanda (GoR) as a key component of the national health strategy on providing universal health care and reaching the health Millenni- um Development Goals (MDGs). Facing limited resources, the GoR has been implementing Mutuelles since 1999 to provide affordable basic services, especially child and maternal care, to the uninsured population. A pilot program was implemented in three selected districts in 1999 and 2000. To standardize the main parameters of Mutuelles, such as the benefits package, enrollment fees, subsidization mechanisms, organizational structure, management systems, etc., the Mutuelles Health Insurance Policy was approved by the GoR at the end of 2004. Until it was fully implemented in 2006, there was variation and flexibility in scheme design across districts. In 2008, a law on the creation, organization, and management of Mutuelles was enacted, which further strengthened the strategy. Approximately 50 percent of Mutuelles' funding was comprised of annual member premiums. The remaining half was obtained via transfers from other insurance funds, charitable organization rates on a fee for-service basis, or performance-based payments. Mutuelles uses a policy of household subscription. Enrolled households are affiliated to designated health centers. With referrals from the health center, members may obtain hospital services covered by Mutuelles. To mitigate adverse selection, enrollees must wait one month to utilize covered services.	To date, Rwanda is the only country in sub-Saharan Africa where more than 90% of the population is cov- ered by community based health programs. The evidence suggests that at the individual level, Mutuelles improved medical care utilization among the general population, under-five children, and women with child delivery. At the household level, Mutuelles protected households from catastrophic health spending. At the provincial level, was existans a positive effect of Mutuelles coverage on child and maternal care cover- age. At the national level, observed an increase in medical care coverage accompanied by a decrease in OOPS and percentage of households with catastrophic health spending. It seems plausible that the increase in medical care coverage contributed to major improvements in child mortality and maternal mortality during the same period. Currently, Rwanda is one of the few African countries that stand a chance of reaching the targets of health MDGs. *The positive results of the Mutuelles program in pro- moting medical care utilization and financial risk protec- tion suggests that the community-based health insurance scheme can be an effective tool for achieving universal health coverage, together with other policy instruments.
Lu, J. F. R. and Chiang, T. L. 2018, (18)	Taiwan	Population Coverage Quality	Rescuers Generation	Four key strategies adopted in the health service sector development Taiwan: 1) Enhancing public-private partnerships in developing medical resources with tax incentives and subsidies: Taiwan was able to exploit the economic resources to inculcate its health workforce and facilitate capacities building and has applied a combina- tion of macro-controls and market forces to the health resource management at different levels of economic development. Once the economy started to boom, the government exerted efforts in engaging private investment and devise appropriate policy to ameliorate distribution imbalance. Public-private partnership is one key to the success of service sector development, but the expansion of private sector cannot be left completely unregulated. 2) Ameliorating regional disparities in medical resource distribution through incentives and effective regulation. ⁻ Taiwan's government took multifaceted actions to successfully tackle the issues of supply shortage as well as maldistribution of physi- cians and hospital beds. Important throughout were the use of economic incentives, public-private partnerships, while govern- ment regulation also played a crucial role in stabilizing market supply and the geographic distribution of healthcare providers. 3) Safeguarding quality of care by regulating providers through licensing and accreditation programs. 4) Promoting an evidence-based policy-making process. The efforts exerted by the government, with the private sector partnerships, in AAAQ framework are described as below: Availability: Strengthen, plan and support the cultivation of health workforce through founding 4 public medical schools and subsidizing 8 private medical schools. Provide financial incentives (tax advantages and interest-free grants) to build up hospital capacities. Accessibility: Reduce inequality in workforce distribution through incentives (interest-free grants for hospital building projects in the non-metropolitan area and Group Practice Centers) and regulatory	The key to its success in providing effective coverage to its 23 million populations was the readiness of the health service sector. Taiwan's experiences in service sector development manifest the importance of economics resources and political leadership.

Author & Year	Country	Dimensions	Health System Function	Innovations/ Intervention	Result
Maluka, S. et al, 2018 (19)	Tanzania	Services Coverage	Services Deliv- ery Stewardship	 Design and implementation of Service Agreement (SAs) between local governments and non-state providers (NSPs) for the provision of primary health care services. In Tanzania, NSPs of health services include faith-based organizations (FBOs), non-governmental organizations (NGOs), private for-profit providers and informal providers. Faith-based providers, the most prominent group in terms of total infrastructure, number of staff, and geographic reach in Tanzania. The private not-for-profit sector of which the faith-based facilities make up the overwhelming majority is the second largest provider of health services in the country. The FBO sector owns 23.3% of health infrastructure, while the state owns 60%. However, 41.1% of hospitals are owned by FBOs while 40% are owned by the state, making faith-based NSPs the largest providers of hospital services in the country. Health sector funding in Tanzania comes from two main sources: central support financed by the government of Tanzania's general tax revenue; and development partners' (DPs) support. DPs provide pooled funding both through general budget support (GBS) and the Health Basket Fund (HBF), a form of sector budget support to finance health care, while the share of funding from domestic taxes remains low. Governance of the health system occurs at multiple levels. The Ministry of Health, Community Development, Gender, Elderly and Children is mandated to provide overall stewardship of the health sector. In the 1990s, the introduction of the health services delivery gained importance. The 1994 formulation of the health service delivery and is or ecognized the role of NSPs in health service delivery and so recognized the role of NSPs in expanding the coverage of health services. Development Program (PBDP), a major initiative to run from 2007 through 2017. This program also recognized the role of NSPs in expanding the coverage of health services. The Ministry of Health and Social Welfare developed a SA template to guide	Participation by NSPs leads to more efficient and effectiv use of available resources, especially in district-leve annual health plans. Tanzania's implementation of SAs in contracting-ou delivery of primary health care services has already mad significant contributions towards the country's movement for universal health coverage.
Meng, Q. and Xu, L. 2014 (20)	China	Services Coverage Finance Protection Population Coverage	Stewardship Services Deliv- ery Resources Generation Financing	The reforms initiated in 2009 have focused on improving social health insurance schemes in both rural and urban areas, strengthening the primary health care system, supporting delivery of essential public health programs, removing drug markups from the financing of the primary health providers, and reforming the public hospital sector. Prior to the reforms, China had begun expanding health insurance schemes for the rural population in 2003 and for urban unemployed individuals in 2007. Establishing prepayment systems has been a key strategy in China to provide people with financial protection.	The population coverage of the three schemes from 200 to 2011, with a rapid expansion from the mid-2000. Between 2003 and 2008, the impoverishment rates de creased by 0.9%. Analysis of the progress towards UHC with selected ind cators shows positive trends, especially in service cover age. In terms of financial protection, nearly all Chines people have been covered by either rural or urban healt insurance schemes.

Appendix 1. Characterized	of studies included and	I summarized in the study
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(21) South Africa Tanzania in 2004, with elements covering both the formal and informal sectors. The NHIS the population by 2009. Participation by NSPs le	Result was estimated to be about 60% of eads to more efficient and effec- ources, especially in district-level
(21) South Africa Tanzania Tanzania in 2004, with elements covering both the formal and informal sectors. The NHIS covers people in the formal and informal sectors for a comprehensive range of outpatient and inpatient services at accredited public and private facilities. Financing: Whereas formal-sector contributions are transferred from social security payroll deductions, people in the informal sectors have to pay their district mutual health-insurance scheme between US\$5 and \$35 per person per year in accordance with their socioeconomic status.	eads to more efficient and effec-
Tanzania covers people in the formal and informal sectors for a comprehensive range of outpatient and inpatient services at accredited public and private facilities. Participation by NSPs let tive use of available resonance Financing: Whereas formal-sector contributions are transferred from social security payroll deductions, people in the informal sector have to pay their district mutual health-insurance scheme between US\$5 and \$35 per person per year in accordance with their socioeconomic status. Direct taxes were regr	
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Financing: Whereas formal-sector contributions are transferred from social security payroll deductions, people in the informal sector have to pay their district mutual health-insurance scheme between US\$5 and \$35 per person per year in accordance with their socioeconomic status.annual health plans. Direct taxes were prog Indirect taxes were regr gressive in Ghana and Ta	ources, especially in district-level
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year in accordance with their socioeconomic status. gressive in Ghana and Ta	
Formal-sector workers automatically contribute to the NHIS through payroll progressive in all three c	
	s were regressive in all three
	cluded, most notably in Tanzania
	-pocket payments are still a large
South African. The South African Department of Health has recently released a share of total health-care	
	lenges in all three countries is to
	of health service benefits through
tem, which will purchase a comprehensive package of services from accredited addressing pervasive acc	
public and private providers for all citizens.	
In the past decade, Tanzania has introduced mandatory health-insurance schemes	
for formal-sector employees, offering comprehensive health-care benefits to	
their members, the largest being the National Health Insurance Fund covering	
civil servants. The National Social Security Fund (for private formal-sector	
employees) has also introduced a Social Health Insurance Benefit. There is a	
voluntary insurance scheme, the Community Health Fund (CHF), for rural	
dwellers, with premiums of between \$4.2 and \$12.7‡ per household per year, off	
ering public primary care to the informal sector.	
A similar scheme was introduced recently for urban dwellers, termed Tiba kwa Kadi (TIKA).	
In view of the low level of coverage by insurance schemes, out-of-pocket pay-	
ments remain a major share of health-care funding in Tanzania. Substantial	
attention is now being paid to expanding insurance coverage of the informal	
sector through the CHF and TIKA. Furthermore, management of the operation	
of CHF and TIKA has been assigned to the National Health Insurance Fund,	
which could open the way for greater integration across insurance schemes.	
	ma Sumar achieved significant
	outcomes by reducing the risk of
	asing birth weight and contribut-
	in infant mortality and a 10% ortality between 2005 and 2012.
	ting and underweight decreased
	11.3%) and $38.0%$ (from $4.0%$ to
	n differences between rural versus
adolescents (0–19 years) and 3.8 million women younger than 64 years.	
	stantial decrease in the prevalence
	eight among children covered by
	tina between 2005 and 2013.
development options of vulnerable families and promotes preventive health care,	
nutrition, and education.	

Author & Year	Country	Dimensions	Health System Function	Innovations/ Intervention	Result
Obermann, K. et al, 2018	Philippines	Services Coverage	Stewardship	1969: Creation of Medicare, forerunner of PhilHealth; Coverage: about 20%	PhilHealth covers about 93 million of
(23)	11	Finance Protection	Services Delivery	In 1996, the Philippines introduced a program for poor households (the Sponsored Program), integrated in the National Health	the 104 million Filipinos. Amongst
		Quality	Resources Generation	Insurance Program (NHIF).	the 11 million non-covered are the
		Population Coverage	Financing	'Philippine Health Agenda 2017–2022': The bill provides a massive jump forward in terms of UHC as it stipulates that all Filipinos	near-poor, non-registered formal
				are automatically enrolled in, and thus entitled to the benefits of, the National Health Security Program.	sector workers, self-employed
				The Bill covers a wide range of health care issues like governance, regulation, human resources, health service delivery and income	professionals, and prison inmates.
				retentionby hospitals, and a health information system. The Bill distinguishes between members in the formal group, who are obliged	The share of PhilHealth in total health
				to pay a premium, and members in the non-formal group. All senior citizens are also mandatorily covered.	expenditures is still only 14%,
				PhilHealth is tasked with working on improving access to quality care and reducing out-of-pocket (OOP) expenses. Sin Tax 2011: Amidst a generally weak tax policy and dministration, the country reformed the excise tax on tobacco and alcohol,	managing quality and cost of provid- ers remains insufficient, the benefit
				channeling most of its revenues to health. Within the first year, the Sin Tax raised more than 1.2 billion USD, allowing the enrolment	coverage does not reflect the coun-
				of an additional 14 million families or roughly 45 million Filipinos into Phillealth.	try's burden of disease, and financial
				Two major initiatives towards improving access to quality care were the introduction of the so-called no balance-billing (NBB) for	protection for PhilHealth members is
				government hospitals and the expansion of the Health Facilities Enhancement Program (HFEP) in 2011.	low.
				The NBB is a policy response to the strategy of many hospitals charging patients on top of what PhilHealth reimburses for the	Lowering OOP, increasing access and
				specific condition and treatment. The NBB has now explicitly forbidden government-owned hospitals to charge patients anything	population coverage as the major
				over and above what PhilHealth reimburses for case rates, Z-benefits and primary benefits at all accredited government health care	achievement, and greater access to
				institutions. The HFEP, starting in 2007, is a nationwide program by the DOH that aims to improve the supply side and its budget has	quality care Sin Tax: enrolment of an
				gone up from 0.86 million USD; 2007 to 0.54 billion USD; 2016, in part due to the allocations from the Sin Tax revenues.	additional 14 million families or
				PhilHealth benefit package is broad and payment is mostly based on clinical inputs, not on diseases/conditions to be treated. In	roughly 45 million Filipinos into
				general, one can distinguish between an inpatient benefit package, an outpatient benefit package and special packages. Furthermore, PhilHealth has added specific benefits for the Sponsored Program that are not available to other NHIP beneficiaries.	PhilHealth. Also, Eighty-five percent of revenues are allocated for health,
				There are explicit limits on coverage such as non-prescription drugs and devices, alcohol abuse or dependency treatment, cosmetic	of which 80% are for achieving UHC.
				surgery optimities services, fourth and subsequent normal obstetrical deliveries, and cost-ineffective procedures as being defined by	of which 80% are for achieving Offe.
				sugary, optimized softway, fourth and subsequent normal obstantian deriverses, and cost increasive procedures as being derived by	
Okech, T. C. and Leleg-	Kenya	Finance Protection	Stewardship	The government of Kenya has over the years since independence in 1963 initiated policy reforms and strategies earmarked towards	The increased attendance of publicly
we, S. L. 2015, (24)	2	Population Coverage	Services Delivery	universal health coverage. Some of these are outlined in various policy documents including Kenya Health Policy Framework (KHPF	provided primary health care services
		Services Coverage	Financing	1994-2010), Health Sector Strategic Plans, Vision 2030 (operationalized through the medium term expenditure framework of 2008-	by the poor and reduction of financial
				2012), the Constitution 2010, and finally, the Health Bill of 2015. The Kenya government provides a legal framework for ensuring a	risks as a cause for not using services
				health care delivery system that is driven by the people while brindging the gap on geographical access by providing for a devolved	provide a basis to argue that policy
				system of governance.	reforms continue to generate positive
				In Health Bill of 2015, the government has declared access to reproductive health and emergency medical treatment as a right by all	health outcomes and that the country
				persons. Other initiatives included progressive elimination of fees in public health facilities as part of the strategy of increase access to health	is headed towards the intended objective.
				oner inflatives included projects the children of rest in patient neutrics as part of the stategy of includes access to include the stategy of includes acce	The country's political leadership
				structural reforms, and market orientation of the health services.	announced user fee removal policies
				The government in 1994 developed the Health Policy Framework and a five-year National Health Sector Strategic Plan (NHSSP) of	for the public health sector out of the
				1999-2004 wherein targets and processes driving the health sector development, as well as healthcare service delivery were articulat-	blue, without giving technocrats
				ed. In the document, equitable allocation of government resources to reduce disparities in health status and increased cost-	sufficient time to correctly design,
				effectiveness and efficiency of resource allocation and use were emphasized. Other initiatives reiterated were enhanced regulatory role	prepare and implement the reform.
				of the government in health care provision; creation of an enabling environment for increased private sector as well as community	Consequently, some national policies
				involvement in service provision and financing; and increase and diversify per capita financial flows to the health sector agin key ingredients necessary in achieveing universal coverage.	though considered politically sound, may fail to bring the expected.
				In the country, a new Constitution was promulgated in 2010 which among other issues provides the necessary legal framework for	may fall to bring the expected.
				ensuring a comprehensive and people driven health care delivery aimed at enhancing access to quality health care. Specifically, the	
				Constitution introduced a devolved system of governance with two tier government System County and National government with	
				the goal of enhancing utilization and geographical access to quality care by all Kenyansincluding the poor and other vulnerable	
				groups.	
				In 2013, the government announced the abolishion of user fees at primary health care facilities and introduced free maternal health	
				care services in public health facilities. This was lauded as a positive towards enhancing access to quality care especially the poor and	
				other vulnerable groups.	
				National Health Insurance Fund: the government has identified and settled on NHIF as official vehicle for the successful implementa-	
				tion of universal health coverage for the country (NHIF, 2015).	
				The abolition of user fees at primary health care facilities and introduced free maternal health care services in public health facilities. National Health Insurance Fund	
				The envisaged enhanced package includes in-patient, outpatient and maternity services, with the treatment protocols pegged on	
				Kenva national treatment guidelines and the Kenva Essential Package for Health (KEPH).	
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Appendix 1.	Characterized of studies included and summarized in the study
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Author & Year	Country	Dimensions	Health System	Innovations/ Intervention	Result
			Function		
Pokharel, R. and Silwal, P. R. 2018 (25)	Nepal	Finance Protection Population Cover- age Services Coverage	Services Delivery Financing	Free Health Care Policy (FHCP): The FHCP introduced in 2006 abolished user fees in public facilities below the district level. Under this policy, essential health-care services are provided free of charge to all citizens at health post and primary health centers, and to the targeted groups (ultrapoor, poor, senior citizens, persons with disability, destitute, and female community health volunteers) at the district hospitals. Safe motherhood policy (Ama program): The Ama program (also called Maternity Incentive Scheme implemented in 2007) provides a universal free delivery service and transportation allowance to women. The providers are paid retrospectively based on defined unit costs. SHI scheme: The Health Insurance Act was enacted on October 11, 2017 laying foundation for an autonomous entity—the National Health Insurance Board—to govern it and making the enrolment mandatory for every citizen both in formal and informal sector. The scheme's major source of revenue comes from contributions from the households (premium) plus complementary funding from the federal, provincial, and local government budget that is primarily targeted to subsidize the poor. The scheme fund can receive contributions from national and international organizations and foreign governments. The benefit package includes services beyond the existing free services being provided by the government. The benefit package includes services within a defined ceiling of USD 500 per head per year per family with a few services excluded. These include plastic surgery, spectacles, and hearting devices beyond a cap price and artificial insemination. 10 Other small-scale social health protection schemes (viz, uterine prolapse treatment, subsidies for heart diseases, kidney disease, and cancer treatment) have also been introduced.	 Reached population coverage of 5% in the implemented districts in just within a year of implementation. The development of the SHI scheme so far is encouraging.
Tang Sh, et al, 2012 (26)	China	Finance Protection	Financing Resources Genera- tion	The paper introduces and discusses new initiatives and measures employed to control cost escalation of healthcare in China, including alternative provider payment methods, reforming drug procurement systems, and strengthening the application of standard clinical paths in treating patients at hospitals, and analyses the impacts of these initiatives and measures. Three cities in China (Shanghai Shenzhen and Mudanjiang) have selected to look at what these cities have done in reforming their provider payment methods in order to tackle the rapid cost escalation of health care, among others. Several emerging initiatives of cost control targeting the supply side of healthcare markets in China and examine their effects have introduced.	 1-Using mixed provider payment methods: All the three cities have used more than one provider payment method to pay for outpatient and inpatient services. One key message is that, except a few situations, all the three cities have tried to use alternative methods to FFS. The results show that either case-based payment, or using flat unit rate to pay for OP and IP services, or global budget, have produced positive impacts on cost control of health care in the three cities. 2- Separating revenue and expenditure system Under SRES, all the revenues, including incomes from service charges and drug sale, are paid into a special government account, while each service provider will be paid for by the county/district bureau of finance, according to agreed health budgets. The impacts of SRES initiative are on four aspects: 1) changes in health expenditure, 2) changes in quantity of services provided; 3) quality of care, and 4) perceptions of community health workers. The provision of public health interventions/ services has also been improved, as the initiative has a strong mandate to strengthen public health at the community level. 3- Reforming management of pharmaceutical distribution/ procurement systems In order to reduce the drug expenditure as percentage of total health expenditure and unnecessary use of expensive drugs including antibiotics, the Government of China, with the support from WHO, has taken a series of actions to improve value for money. One major reform was to revise the list of national essential drugs since 2004. 4- Implementing standard clinical treatment path Clinical governance has been one of main challenges in reforming public hospitals in China.

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Author & Year	Country	Dimensions	Health System Function	Innovations/ Intervention	Result
Vragas.J.R, et al, 2013 (27)	Cost Rica	Financial Protection Population Coverage	Stewardship Financing Services Delivery	This paper explores the implementation and sustenance of universal health coverage (UHC) in Costa Rica, discussing the development of a social security scheme that covered 5% of the population in 1940, to one that finances and provides comprehensive healthcare to the whole population today. The scheme is financed by mandatory, tripartite social insurance contributions complemented by tax funding to cover the poor. The analysis takes a historical perspective and explores the policy process including the key actors and their relative influence in decision-making. Data were collected using qualitative research instruments, including a review of literature, institutional and other documents, and in-depth interviews with key informants.	Key lessons to be learned are: 1. Population health was high on the political agenda in Costa Rica, in particular be- fore the 1980s when UHC was enacted and the transfer of hospitals to the social security institution took place. Opposition to UHC could therefore be contained through negotiation and implemented incrementally despite the absence of real consensus among the policy elite 2. Since the 1960s, the social security institution has been responsible for UHC in Costa Rica. This institution enjoys financial and managerial autonomy relative to the general government, which has also facilitated the UHC policy implementation process. 3. UHC was simultaneously constructed on three pillars that reciprocally strength- ened each other: increasing population coverage, increasing availability of financial resources based on solidarity financing mechanisms, and increasing service cover- age, ultimately offering comprehensive health services and the same benefits to every resident in the country particularly before the 1980s, the fruits of economic growth were structurally invested in health and other universal social policies, in particular education and sanitation. The social security institution became a flagship of Costa Rica's national development strategy which reinforced its political im- portance and contributed to its longer-term sustainability and that of UHC.
Zoidze. A, et al, 2013 (28)	Georgia	Finance Protection Services Coverage	- Service Delivery - Financial	The present study focuses on the program "Medical Insurance for the Poor (MIP)" in Georgia. Under this program, the government pur- chased coverage from private insurance companies for vulnerable households identified through a mean testing system, targeting up to 23% of the total population. The benefit package included outpatient and inpatient services with no co-payments, but had only limited outpatient drug benefits. This paper presents the results of the study on the impact of MIP on access to health services and financial protection of the MIP-targeted and general population. With a holistic case study design, the study employed a range of quantitative and qualitative methods. The methods included document review and secondary analysis of the data obtained through the nationwide household health expendi- ture and utilization surveys 2007–2010 using the difference-in- differences method.	MIP had a positive impact in terms of reduced expenditure for inpatient services and total household health care costs, and there was a higher probability of receiving free outpatient benefits among the MIP-insured. However, MIP insurance had almost no effect on health services utilization and the household's expenditure on outpatient drugs, including for those with MIP insurance, due to limited drug benefits in the package and a low claims ratio. In summary, the extended MIP coverage and increased financial access provided by the program, most likely due to the exclusion of outpatient drug coverage from the benefit package and possibly due to improper utilization management by private insurance companies, were not able to reverse adverse effects of economic slow-down and escalating health expenditure. MIP has only cushioned the negative impact for the poorest by decreasing the poor/rich gradient in the rates of catastrophic health expenditure MIP has contributed to an improvement in all three dimensions – population, service and cost coverage, and managed to improve financial protection of the beneficiaries that used health expenditure. The study results also suggest that the sustained low utilization of health services, particularly primary health care services for the general population including MIP benefit package during the first three years of implementation has detrimentally affected the potential impact of MIP on financial protection of the population. There are also indications that improper practices employed by the PICs – delayed erroriment and overly aggressive utilization management – may have also contributed to the low utilization at the initial stage of MIP implementation. Alternative approaches to protecting households experiencing catastrophic health expenditure.

Appendix 1. Characterized of studies included and summarized in the study

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Author & Year	Country	Dimensions	Health System Function	Innovations/ Intervention	Result
Soranz.D, et al, 2016	Portugal	Finance Protection	-Stewardship	In October 2005, Portugal initiated an ambitious PHC reform, based on the Primary	In the first half of 2015, 76.84% of users enrolled in the Lisbon
(29)	Brazil	Population Coverage	-Resource Generation	Health Care Mission (MCSP), leading to a deep reconfiguration of Primary Healthcare	and Tagus Valley region and 72.49% in the Algarve region had
(2))	Diulii	Services Coverage	-Service Delivery	in Portugal. In January 2006, MCSP published the "Priority Action Lines for the Devel-	a family doctor assigned to them. In Rio de Janeiro, in Novem-
				opment of Primary Health Care" in which it disseminates its proposed measures in eight	ber 2016, it is estimated that 65% of Rio de Janeiro residents
				areas of action and sets the way to developing the reform. In the Portuguese reform, a	already had doctors working in Fam ily Health Teams, except
				set of strategic lines was elaborated and were clustered in the 2007-2009 strategic plan,	that most of them are undergoing a training process to obtain
				namely: Axis I - quality and organizational change related to issues of leadership and	the title of specialist. In the Lisbon Region, between 2009 and
				independent management, improved accessibility, with evaluation and monitoring and	the end of 2015, 931 family doctors physicians retired and 421
				with the management of information and communication technologies. Axis II - clinical	new ones joined the system, leading to a deficit of 510 doctors.
				governance and knowledge management addressed issues related to clinical governance,	In Portugal, some patients are still without a family doctor in
				professional qualification and innovative and simplified care delivery. Axis III - sus-	the family health units, contrary to the principle underlying the
				tainability and development associated to issues related to accreditation of services,	establishment of this type of functional unit. This situation
				financial feasibility of primary healthcare and communication with citizens and profes-	occurs predominantly in places with an increasing trend,
				sionals Solutions pointed out by these Axes encompassed professional management,	particularly in the Family Health Units (USF), as a result of
				independence, teamwork, demand-oriented culture and professional satisfaction and	retirement or transfer to other functional units without due
				motivation. The challenges faced by health facility managers were to try to balance	replacement 14.
				efficiency gains with effectiveness gains, manage resources rationally and have costs adequate to objectives, achieve health gains for the community, that is, by the perfor-	Measures introduced by the Portuguese Ministry of Health of the XIX Constitutional Government to respond to the shortage
				mance of continued quality of service. "Model B" Family Health Facilities were espe-	of medical professionals in the General and Family Medicine
				cially established for the development of innovative solutions proposed by these Axes.	career, namely (i) opening of procedures for the admission of
				The city of Rio de Janeiro began its reform in April 2009, inspired by the Portuguese	professionals, (ii) recruitment of professionals (Iii) increase of
				Primary Healthcare Reform. Eight strategic axes10 were launched, with specific priori-	normal working hours of the medical special career from 35 to
				ties for each year and recurring processes throughout the reform. Health facilities called	40 weekly hours, resulting in (iv) increasing the size of the list
				"Family Clinics" were established and "Model A" Municipal Health Centers trans-	of registered users per physician from 1,550 to 1,900 users, and
				formed / physically refurbished to develop the innovative solutions proposed by these	(v) incentives for geographic mobility have not been sufficient
				Axes.	to achieve a more comprehensive coverage of primary health
				As in Portugal, it was not enough to expand access without increasing primary health	care provision15.
				care's resolution.	In 2016, in Rio de Janeiro, the lack of family doctors in the
				Lisbon and Rio de Janeiro reforms aimed at improving the quality of health care, mak-	labor market or in places of extreme violence occurred between
				ing them citizen-centered, accessible and efficient, always bearing in mind the need to	5 and 10% of the teams. In order to respond to this issue, plan-
				improve the satisfaction of professionals and users.	ning was done in medical training so that, in 10 years, all team
				The modernization and reconfiguration of the Health Centers in both Lisbon and Rio de	family physicians could have medical residency in family and
				Janeiro and the establishment of Family Clinics in the latter city were based on a set of	community medicine, by stipulating the following: (i) opening
		1	1	principles: (i) community-oriented, with strategies adapted to local needs; (ii) organiza-	220 annual residency vacancies; (ii) requesting the Ministry of
		1	1	tional flexibility with self-organization and reduced organic strictness; (iii) leadership	Health to deploy 101 Cuban family doctors to the most diffi-
		1	1	and teamwork, with establishment of new competences and knowledge management;	cult areas; (iii) making workload for 20 or 40 hours flexible, as per the professional's decision; (iv) keeping an average of
				(iv) simplification of care, improving regulation with more trust in the citizen; (v)	
		1	1	results-oriented management, with community impact assessment; (vi) contractualisa- tion and evaluation, with definition of goals before the public administration13; (vii)	3,200 patients per team; (v) establishing a career plan with incentive for training; (vi) providing an incentive to geographic
		1	1	independence and accountability; (viii) continuous improvement of quality as a way of	mobility; and (vii) investing heavily in the improvement of
		1	1	acting.	physical structures of the facilities and offices.
				acung.	physical subclutes of the facilities and offices.

Author & Year	nensions	Health System Function	Innovations/ Intervention	Result
Author & Year Somkotra.T, et al, 2008 (30)	 ensions Protection	Health System Function - Financing	Innovations/ Intervention This study aimed to measure the pattern of household out- of-pocket payments for health care and to examine the financial catastrophe and impoverishment due to such payments during the transitional period (pre- and post- Universal Coverage policy implementation) in Thailand. This study used the nationally representative Socioeconom- ic Surveys in 2000 (pre-UC), 2002, and 2004 (post-UC), which contained data from 24747, 34758 and 34843 indi- vidual households, respectively. Data were taken from the nationally representative house- hold socioeconomic survey (SES) of Thailand in 2000, 2002 and 2004, which were conducted by the National Statistical Office (NSO). The SES2000 represented the pre-UC period in this study, and the SES2002 and SES2004 represented the post-UC period. The SES contained information on household income and consumption expenditures such as those for food and other goods and services, including out-of-pocket payments for health care. To achieve the purposes of this study, the total household consumption was adopted as one of the main measures of living standards. An equivalence scale was applied to household consump- tion to derive the household consumption per equivalent adult, which was then used to rank households into house- hold quintiles. In addition, the non-food consumption, defined as total household consumption minus food consumption expendi- ture, was used as the alternative measure of living stand- ards. Households to improve the cata- strophic payments for health care was based on the concept proposed by Wagstaff and van Doorslaer. We set various catastrophic thresholds to improve the robustness of the trends and findings as other previous studies have. This study used 5%, 10% and 15% of total consumption and 20%, 25% and 30% of non-food con- sumption as the thresholds.	Result Before the UC policy implementation, the ratio of out-of-pocket payments for health care as share of total household consumption between households in the richest quintile and the poorest was 1.4, but, after the UC policy implementation, the ratios increased. The concentration indices of out-of-pocket payments for health care as share of household resources, either total household consumption or non-food consumption, are mostly positive. The rich households are more likely to spend for health care from their own resources than are the poor households. The trends of out of pocket payments for health care as share of the total household con- sumption or non-food consumption decline from pre-UC to post-UC, particularly among households that belong to the 1st and 2nd quintiles. Using the total household consumption and non-food consumption as the basis for defining the threshold to measure catastrophic payments for health care, the analysis shows a declin- ing trend of the incidence of catastrophic payments for health care between the pre- and post- UC period. The concentration index of households that incurred catastrophic payments (CE) is also computed in order to shed light on whether the poor or rich households exceeded the thresh- old. Most of the CE are positive at various thresholds, indicating the greater tendencies for the rich households to incur catastrophic payments for health care. The concentration indices of the catastrophic overshoot (CO) generally display similar patterns as the concentration indices for households that incurred catastrophic payments (CE). The COs are positive regardless of pre- or post-UC and, for all thresholds, indicating the rank weighted gaps are smaller than the unweighted gaps, particularly in the post-UC period. The distribution of the incidence and intensity of catastrophic payments for health care against the threshold of 10% of total household consumption and 25% of non-food consump- tion across household quintiles in the urban and rural settings, respectively. Bo

Author & Year	Country	Dimensions	Health System	Innovations/ Intervention	Result
Santoz,L.M.P, et al, 2016 (31)	Brazil	Population Cover- age Services Coverage	Function -Resource Generation	The aim of this study was to evaluate the implementation of a program to provide primary care physicians for remote and deprived populations in Brazil. The Mais Médicos (More Doctors) program was launched in July 2013 with public calls to recruit physicians for priority areas. Other strategies were to increase primary care infrastructure investments and to provide more places at medical schools. A quasi-experimental, before-and-after evaluation of the implementation of the program has conducted in 1708 municipalities with populations living in extreme poverty and in remote border areas. We compared physician density, primary care coverage and avoidable hospitalizations in municipalities enrolled (n = 1450) and not enrolled (n = 258) in the program. Data extracted from health information systems and Ministry of Health publications were analyzed.	By September 2015, 4917 physicians had been added to the 16 524 physicians already in place in municipalities with remote and deprived populations. The number of municipalities with \geq 1.0 physician per 1000 inhabitants doubled from 163 in 2013 to 348 in 2015. Primary care coverage in enrolled municipalities (based on 3000 inhabitants per primary care team) increased from 77.9% in 2012 to 86.3% in 2015. Avoidable hospitalizations in enrolled municipalities decreased from 44.9% in 2012 to 41.2% in 2015, but remained unchanged in control municipalities. We also documented higher infrastructure investments in enrolled municipalities and an increase in the number of medical school places over the study period.
Shibuya.k, et al, 2011. (32)	Japan	Finance Protection Population Cover- age	-Stewardship Finance Protection -Service Delivery	 Four major reforms have proposed to assure the sustainability and equity of Japan's health accomplishments in the past 50 years. I. Implement a human-security value-based reform Apply the notion of human security with increased pro activeness to Japans domestic policies. Refine governmental health policies in medical education, system monitoring, and assessment from the people-center perspective. Maintain the basic structure of compulsory enrolment in the social health insurance plan, based on the underlying value attached to equity in Japanese society. Use good-quality research and scientific evidence to frame key choices in local, national, and global decision making. Redefine the role of central and local governments Transfer the authority and responsibility for improving the efficiency of allocation of Health-care resources and sustainability of funding to prefectural governments. Consolidate fragmented agencies and institutions (eg, Japanese version of the Institute of Medicine, Centers for Disease Control and Prevention, and National Institutes of Health). Reconstruct health systems in Tohoku area damaged by the Great East Japan. Earthquake as the test case for future reforms based on human security. Improve the quality of health care •Build clinical databases to certify subspecialties to improve quality of physicians Establish general practice as an official subspecialty for patient-center seamless care. Monitor performances with mandatory reports for benchmarking Enable functional differentiation and the establishment of referral networks in clinics and hospitals. Commit to global health Provide opportunities for domestic and global health experts to interact Mobilise Japan's accumulated knowledge, especially of the universal coverage, ageing and long-term care, and health and wellbeing for the past 50 years in the global health context. <	
Raj Adhikari (2018) (33)	Nepal	Services Coverage	-Resource Generation	exploring availability, expiry, and stock-out duration of 17 key essential medicines at both public and private health facilities	Stock of medicines and expired medicines in public sector: 1-Primary healthcare centers (PHCCs): 91.59 (stock)-0.89 % (ex- pired). 2-Health posts (HPs): 96.42-3.04% 3-Sub Health posts (SHPs):98.2-2.55%
Ayub, A, et al. (2018) (34)	Pakistan	Finance Protection Population Cover- age	Finance -Service Delivery	There is a plan named Schat Sahulat Program (SSP) which was implemented in KP (name of a state in Pakistan) in two different phases in order to cover the 51% of the population financially and through the accessibility of care. The entire program covers all secondary and limited tertiary services. The maximum expenditure per family annually is 540000 Rs. Which is subsidized by a premium of 1549 Rs.	Phase 1- covers 4 districts with a total fund of 13.4k \$. It's planned for 5 years and covers 21% of the poor poorest population. Inpatient, maternity and all secondary services are covered ignoring the tertiary services. Phase 2- covers 26 districts with coverage of 51% of total poorest population. It's planned for 2 years and is funded for 51.6k \$. Treatment for diabetes complications, cancer treatment, treating organ failure, admission for HCV&HBV complications, cardiovas- cular conditions like hypertension, emergencies and management of cerebrovascular are added up either. Tertiary services are covered to some extent.

Author & Year	Country	Dimensions	Health System Function	Innovations/ Intervention	Result
Aantjes, C, et al. (2015) (35)	Zambia	Finance Protection Population Cover- age	-Stewardship Finance	All three governments who had the power, stuck to the policy ensuring equita- ble care and reduction of the disparities. There was integration between disease program in primary services and envi- ronmental health like water sanitation. Lower income due to economic stagnation has ended up in a deduction in health budget per capita. -Community-oriented palliative services were taken into action to cover up the gap produced by economic stagnation. -Donor funding formed 11% of the country's health budget in 1995 and 38% in 2011. -Free anti-retroviral for HIV patients in hospitals -Under the Ouagadougou declaration, 650 health centers were established. -User fees were abolished for PHC in urban health facilities and promulgated a new national health policy. -Increase in social welfare budget from a total of 30 to 40 million to 199 million (country's currency)- also in 2011 the country reached a spending of 15% on budget which was increased to 16% in 2014 Different authoritative and structural changes were implemented like decen- tralizing and transferring the power to domestic levels, integrations and align- ments in duties and goals.	 Also poor services are not recommended as an alternative to the high quality services when there are equity considerations. Having a narrowed prioritization can lead to inequity, so it is not suggested too. Has earmarked the total budget up to 75% in order to cover the district health which was disproportionally consumed within hospital before. Zambia reached UC for anti-retroviral treatment in 2012 covering 450000 individuals from a total of 520000 due to decentralizing ART to PHC clinics.
Adams, A, et al. (2013) (36)	Bangladesh	Population Cover- age Service Coverage	Financing -Service Delivery	Pro-poor and women-focused investments in health and social development such as the Expanded Program on Immunization, family planning, female education subsidies, and women's microcredit have contributed to some gains in different areas like child mortality, antenatal care, skilled birth attendant, complete immunization, modern family planning methods, oral rehydration therapy, acute respiratory infection treatment, composite coverage index also in total fertility rate.	From 1993 to 2011, 1-there was absolute difference in child mortality by asset quintile for each group: infants (45 in 1993, 32 in 2011)- the children (51 in 1993, 9 in 2011)- the U5 (89 in 1993, 40 in 2011) 2-child mortality by gender for each group, shortfall inequality (the difference between the expected and actual ratio): infants (45 in 1393, 32 in 2011)- the children (51 in 1993, 9 in 2011)- the U5 (89 in 1993, 40 in 2011) 3-The relative difference between economical quintile 5 (Q5) and quintile 1 (Q1) for each indices was (Q5:Q1): Antenatal care: 4.4 in 1993, 1.9 in 2011 Skilled birth attendant: 10.0 in 1993, 5.5 in 2011 Modern family planning methods: 1.5 in 1993, 1.2 in 2011 Oral rehydration therapy: 1.2 in 1993, 1.0 in 2011 Acute respiratory infection treatment: 2.2 in 1993, 1.2 in 2011 Composite coverage index: 1.7 in 1993, 1.3 in 2011 4- The difference in TFR in the all districts varies around 0.1 to 2.0, with a special concentration on the eastern districts. This show a dramatic improvement in TFR due to higher levels of primary school attendance, child mortality, delivery assis- tance by skilled attendants, and access to an improved water source.
Agustina, R, et al. (2018) (37)	Indonesia	Finance Protection Population Cover- age Service Coverage	-Stewardship Financing -Service Delivery	There are three main stages mentioned in the article: From 1960 to 2001: a centralized health system was in Indonesia Decentralization of governance to 354 districts in 2001 and then to 514 ones. The UHC system introduced in 2014 concentrated on flexible and adaptive implementation features and quick evidenced-driven decisions based on changing needs.	 1- 2090 primary health centers were built. Life expectancy improved from 48 to 69 years and IMR decreased from 76 per 1000 to 23 per 1000 deaths. TFR decreased from 5.61 to 2.11 due to the first stage. 2- Increase in health system heterogeneity and exacerbated equity gaps because of the second phase. 3- The largest single-payer system in the world and covers 203 million people. Entirely, from 2014 to 2017: Outpatients (million): 66.8 to 150.3 Health facilities: 18437 centers to 21763 Referral outpatients (million): 2.1.3 to 64.4 Inpatients (million): 4.2 to 8.7 Health facilities (advanced medical treatment): 1681 to 2268 National health system insurance memberships (million): 10.38.4 to 187.98 Revenue from premium collection (in \$2011 PPP billion): 10.50 to 20.15

Appendix 1. Characterized of studies included and summarized in the study

Author & Year	Country	Dimensions	Health System Function	Innovations/ Intervention	Result
Akashi, H, et al. (2015) (38)	Japan	Population Coverage Quality	Stewardship Resources Generation	Four phases of HRH (human resources in health) development in Japan health system: First, there was an absolute shortage in HR. Second, rapid production of low-educated HR whom experienced relaxed admission require- ments, shorter education periods, and increase in the numbers of educational facilities before introducing UHC Third, included introduction of quality improvement procedures through "national licensing examination". This was the stage that the system introduced UHC with improvements in health- related indicators. Forth, characterized by a predominance of formal health professionals.	some health indicators improved such as the mortality rates fo Pneumonia or tuberculosis. However, there was a debate whether the increases in the health workforce were responsible for these im provements? Since, streptomycin, chest X-rays, improved nutrition etc. were introduced during that time, which contributed to a reduc tion in tuberculosis in Japan.
Akhnif, E, et al. (2018) (39)	Six African countries		Stewardship	To audit the 'UHC systems' to assess to what extent they function as "learning systems" toward UHC using an assessment tool specified for this purpose. All of the six countries scored their readiness between 4 to 5 which confirms the feasibility and relevance of adapting the learning organization framework to UHC Systems.	Learnt lessons: 1. Participating the UHC actors in the evaluation process increase th chance of corrective collective actions in the follow-up of the as sessment. 2. In Morocco, the creation of an inter-ministerial Steering committe for UHC allowed a strategic positioning of the UHC agenda at th level of the government. 3. Burkina Faso shows that even low-income countries can build strong learning ecosystems
Alkenbrack, S, et al. (2013) (40)	Lao PDR	Finance Protection Population Coverage Quality	Financing	The prospects of expanding enrolment of CBHI (community-based health insurance) were examined using two distinct approaches. In this study, household-level findings indicate that the better-off, individuals suffering an illness, and less risk-averse are most likely to enroll in insurance. Besides, poor quality of care obstructs the way to participate in such scheme. The main target group in CBHI is households that are self-employed or those who are active in the informal sector that are not covered by any of the other insurance organizations. Insurance membership is at the household level, and premiums vary depending on the city or village and the number of household members. Participation rates were about 2.5% to 3% of household income and were either monthly collected by the rural collector or paid to the fund manager at the district hospital.	Increase coverage of poor people and self-employed or those who are active in the informal sector
Amaya, J, L, et al.(2016) (41)	Colombia	Finance Protection	Financing	The system classifies the population on a scale from 1 to 6 according to their economic welfare, determined based on access to public services, possession of durable goods, allocation of human capital, and current income.	Lessons learnt: People care much more about healthcare benefits and family cover age than health insurance costs.
Andrade, V,M, et al. (2018) (42)	Brazil	Finance Protection Population Coverage	Financing -Service Delivery	Family Health Strategy is the primary healthcare program in Brazil, 11 indicators from different municipalities has been assembled and analyzed to recognize the pace of utilization and rate of expansion. The differentiating early and late adopter of the program were supply of doctor and population density. Sustained coverage expansion was considerably related to the population size and marginal benefits of the program and also doctor supply. The expansion of the utilization had no specific pattern and was completely heterogeneous in the state and municipal level. The economic development was not the main determinant of the uptake.	Lessons learnt: First, the funding mechanism is critical for program implementation and must be accompanied by ways to support the supply of primar- care physicians in low density areas. Second, in more developed an bigger areas the main challenge is lack of incentives to pursu universal coverage, especially due to the availability of private insurance. Third, population size is a crucial element to guarantee coverage sustainability over time.
Asaria, M, et al. (2016) (43)	England	Finance Protection Service Coverage Quality	Financing -Service Delivery	In 2003 the UK Government made reducing health inequality a priority for the NHS in England, as part of a cross governmental strategy with explicit national targets for reducing health ine- quality by 2010. Policy explanation: (1) major investments in primary care supply and quality from 2004, including the world's largest primary care pay-for-performance program (2) targeted investment in primary care supply in under doctored areas of the country from 2008 (3) National guidance and support for effective primary care interventions for chronic conditions in disadvantaged adults from 2007 to 2014.	From 2004/2005 to 2011/2012: 1- Socioeconomic inequalities in both primary care supply (PCS relative to need and primary care quality (PCQ) decreased substant tially in absolute and relative terms. 2-inequality in primary care supply eliminated and inequality i primary care quality nearly eliminated 3-PCS relative inequality -2% and PCQ relative inequality 1% deprived to less-deprived areas 4-relative inequality 57%: deprived to less-deprived areas
Asfaw, E, et al. (2014) (44)	Ethiopia	Finance Protection Quality	-Service Delivery	This study aimed to measure patient satisfaction with task shifting of antiretroviral services in hospitals and health centers in four regions of Ethiopia.	

Author & Year	Country	Dimensions	Health System Function	Innovations/ Intervention	Result
Atun, R, et al. (2013) (45)	Turkey	Finance Protection Service Coverage Quality	Financing Stewardship Resources Generation -Service Delivery	Turkey's health transition plan. Includes: - Contract-based employment introduced for healthcare personnel in rural and less developed regions. -changes to pricing and to value-added tax in pharmaceutical field -Patient Rights Directive introduced -Hospitals belonging to the Social Insurance Organization (146 hospitals) integrated with Ministry of Health hospitals. -Contract-based family medicine issued -Social Security Institution established as a single organization for financial pooling and purchasing -National air ambulance service -Cost-sharing in private hospitals for complex conditions -Mobile pharmacy services 2-Turkey's 5 health insurance organizations integration	Effects for item 1: enhance equity substantially- increased user satisfaction- better financial protection Effects for item 2:increased the insurance coverage for poorest population from a 2.4-million-people population in 2003 to a 10.2-million -people one in 2013.Also, access and use of key maternal and child health services improved to help substantially reduce under-5, infant, and neonatal mortality, especially for socioeconomically disadvantaged households.
Atun, R, et al. (2015) (46)	Argentina Brazil Chile Colombia Costa Rica Mexico Peru Uruguay Venezuela	Finance Protection Service Coverage population Coverage Quality	Stewardship Resources Generation -Service Delivery Financing	There were different reforms and programs which can be assessed through the following statements: Health as a human right and citizens' entitlement Regulation of health-care insurers and providers Expanding insurance coverage for uninsured citizens through budget transfers Comprehensive primary health care: the platform for universal health coverage	Between 1990 to 2011 and through all 9 countries: -A constant decrease in Under-5 mortality rate and infant mortal- ity rate and a considerable decrease in maternal mortality rates. Also, there were constant increase in insurance and health coverage of the population. Quality of care and safety of the delivered services were boosted.
Aungkulanon, S, et al. (2016) (47)	Thailand	Service Coverage	-Service Delivery	Thailand UHC program: There was a significant decrease in overall mortality rate which was due to the reduction of inequality of HIV mortality in adults aged 15-44 years in the north region of Thailand. These improvements are followed by successful implementation of HIV prevention pro- gram (vertical prevention from mother to child) and high coverage of universal access to antiretroviral treatment (ART) from HIV. The improvements in the benefits package were another influential factor contributing to UHC.	
Baine, O, S, et al.(2018) (48)	Uganda	Finance Protection Service Coverage Quality	-Service Delivery Financing	 Kisiizi Hospital Health Insurance scheme is an insurance program to improve access to health services, and provide a reliable source of funding and reduce bad debts to Kisiizi hospital through forming "Engozi Societies" Results: -Compulsory insurance scheme memberships were posed on e-societies' members Kisiizi hospital health insurance scheme covered only health services obtained from Kisiizi hospital. -The scheme offered no exemption, credit and referral facilities - Premiums are paid inside the organized societies for members from savings and offered them loans 	 -Membership increased from 330 in 1996 to 38,400 families in 2017 The following scheme provided a stable source of funding and reduced bad debts to the hospital.
Ballart, X and Fuentes G, (2018) (49)	Uruguay	Finance Protection Service Coverage Quality	-Service Delivery Financing	A reform in the health system with the aim of regaining the control of services provision by the state including: -change in orientation from a system that was hospital centered, to a system that is orient- ed towards community health and preventive medicine based on the development of primary care - Creation of the National Health Fund and the National Health Insurance. - Formal workers and employers contribute to the National Health Fund based on their salary level. - Insured citizens have the option to change providers after being at least 3 years with one provider. - Uninsured citizens receive health services from the public provider	People would rather take insurance services from private insur- ers and third parties than public sector, as the number of people covered in 2014 was 63 comparing to 2000 with a 47.5 percent. Number of people insured by National Health Insurance in- creased from 0.5 million to 2.5 million. OOP was lower in Uruguay (16%) comparing to Brazil (25%1) and Mexico (44%) by 2014 Good for those health systems having difficulties with their quality of healthcare

Appendix 1. Characterized of studies included and summarized in the study

Author & Year	Country	Dimensions	Health System Function	Innovations/ Intervention	Result
Barasa, E, et al.(2018) (50)	Kenya	Finance Protection Population Coverage	-Service Delivery Financing	Develops a summary measure of UHC for Kenya and track the country's progress between 2003 and 2013. Financial reforms were in two main categories: 1-User fees: by 2013, user fees were completely abolished in health centers and dispen- saries. A free maternity program was introduced that removed user fees for deliveries in all public facilities 2-Health insurance: National Health Insurance Fund was established. Then by 2015, the NHIF Act was amended to revise premiums upwards. The NHIF expanded its benefit package from inpatient only, to include outpatient services.	Services coverage increased from 27.65% (27.13%–28.14% in 2003 to 41.73%. Financial risk protection reduced from 69.82% (69.11% 70.51%) in 2003 to 63.78% (63.55%–63.82%) in 2013. The weighted summary measure of UHC increased from 43.94% (95% CI 43.48% to 44.38%) in 2003 to 51.55% (95% CI 51.29% to 51.82%) in 2013.
Barasa, E, et al. (2018) (51)	Kenya	Finance Protection Population Coverage Service Coverage Quality	Financing Stewardship	Policies Content: (1) the introduction of the Civil Servants Scheme (CSS) (2) the introduction of a stepwise quality improvement system (3) the health insurance subsidy for the poor (HISP) (4) revision of monthly contribution rates and expansion of the benefit package (5) the upward revision of provider reimbursement rates	There are improvements in several areas including equity efficiency, feasibility, and sustainability: -The number of Kenyans (principal members plus beneficial ics) enrolled in the NHIF increased from about 2.7 million i 2010 to 6.6 million in 2017. -administrative costs as a share of total revenues were reduced from 42% to 22% and the benefit payout ratio increased from 52% to 75% between 2010 in 2017. -though population coverage by the NHIF has increased, it remains considerably low at 14%. -Though the NHIF has doubled its revenue collection, this amounted to only 5% of Kenya's total health expenditure. -Though the NHIF has reduced its administrative costs by halt at 22% the NHIF is still highly inefficient.
Barber, S, L, et al. (2013) (52)	China	Finance Protection Service Coverage Quality	Financing Stewardship Service Delivery	 I-Essential medicines lists issued at primary care centers. I-Insurance reimbursement lists, which include the medicines on the EML, at higher reimbursement rates. I-centralized procurement and bidding platforms implemented in order to reduce the number of distributors and mark-ups in the distribution chain. Setting and adjusting guiding retail prices for essential medicines. I-Essential medicines are provided at cost (zero profit mark-up) at all government-run primary care facilities in urban and rural areas. Quality, electronic bar codes required on pack ages for monitoring. Also, strength-ened systems for adverse drug effects were established. Rational medicines use, Clinical treatment guidelines and formularies of essential medicines formulated and issued, and prescription monitoring systems put into place. 	-Essential medicines available at primary care facilities at cos -Prices for essential medicines have been reduced -Price transparency has been resulted. -Greater protection through quality standards for consumers. -Increased knowledge of rational medicines use
Bayarsaikhan, D, et al. (2015) (53)	Mongolia	Finance Protection Population Coverage	Financing Stewardship	Mongolia introduced mandatory health insurance with a single national insurance pool. The Government chose to fully subsidize health insurance contributions for low-income and vulnerable populations, such as the elderly, children, students, and those covered by social assistance programmers. As the program developed the state separated financing from the provision of health services. The 'Fee for service' for out-patient services and the 'bed day' tariffs for in- patient care were adopted. To reduce the adverse economic incentives facing providers, prospective payments in form of a global budget were issued. Mongolia introduced case-based payments for in-patient services in 2006.	By 2014, Mongolia almost reached 100% coverage.
Bredenkamp, C, et al. (2015) (54)	China Indonesia Philippines Thailand Vietnam	Finance Protection Population Coverage Service Coverage Quality	Financing Stewardship Service Delivery	There are 3 main challenges that these countries each, address in a particular way. These challenges are: 1-Covering the informal sector. 2-Deciding which benefits to include in the package and how to update it. 3-Supply-side readiness: there are large variations and inequities in the supply-side readiness	Thailand's experience propose a much easier and quick approach to achieve high levels of coverage among the info mal sector that is to link coverage with citizenship or nation residence, and to enroll the whole (as opposed to only th poor) informal population using general government revenue. Similarly, Thai's health system provides a more comprehe sive benefit package especially for poor which include high cost medical treatments like kidney transplant.

Author & Year	Country	Dimensions	Health System Function	Innovations/ Intervention	Result
Campbell, J, et al. (2013) (55)	Ghana Mexico Thailand Brazil	Finance Protection Service Coverage Quality	Financing Stewardship Service Delivery Resource Generation	There are 4 dimensions of human resource for health (HRH) development which should be considered on the way to UHC, Availability, Accessibility, Acceptability, Quality. Every country has experienced different processes and programs regarding each dimension in different sections of time: Ghana: 1) High Impact Rapid Delivery (HIRD) approach. 2)increase production of health workers focusing on mid-level health cadres (medical assistants, physician assistant, midwives etc.) 3) implement strategies for equitable distribution and retention of staff; implement comprehensive conditions of service for all health workers; improve and decentralize HRH management functions.4) Ministry of Health adopts its gender policy to reduce gender barriers in access to health care. 5) Improve performance management with corresponding rewards (incentives) and sanctions; improve human resource information systems, establishment of post-graduate medical college; strengthening regulatory bodies to promote effective legislation. Mexico: Establishment of National Commission for the Regulation of Trade in Human Resources in the Federal States (CNRCRHEF). Thailand: 1) One District, One Doctor (ODOD) Program 2) Special monthly allowance introduced for long services in district hospitals. 3) Special monthly allowance in three southern provinces for nursing education and postings in their home towns to serve rural Muslim communities. 4) Healthcare Accreditation Institute (public organization) established by law, responsible for quality improvement. Brazil: 1) ProgeSUS: capacity building in health management. 2) UNA-SUS: distance learning program for SUS. 3) PRO-SAÚDE: bridging gaps between HRH and primary health care needs. 4) PET-Sauce: integration of education, services and communities.	Lessons learned: First, success in awarding adequate priority to HRH depends on political leadership and commitment. Second, strategies and actions in each of the AAAQ dimensions of HRH have brought about improvements in quality of care and effective coverage and these have resulted in better health outcomes. Third, the successes seen in the four countries examined in this paper reflect achievements made possible through partnerships in and outside the health sector.
Gerald Bloom (2016) (56)	Japan	Finance Protection Service Coverage	Stewardship Financing	Three strategic decisions were made during the healthcare modernization in Japan. It facilitated the development of primary healthcare services: it provided opportuni- ties for established practitioners to integrate in the organized healthcare system during a gradual transition to Western medicine; it limited the supply of hospitals and gave them little public funding and it involved the Japan Medical Association, which was dominated by clinic-based physicians, in establishing a fee schedule that favored primary healthcare.	 3 lessons are learnt: 1-Integrate Existing Providers of Primary Healthcare Services into the Organized Health System. 2-Limit Government Commitment to Finance Hospital Services 3- Empower Providers of Primary Healthcare Services to Ensure That Their Livelihoods Reflect Their Importance to Health and Health Services
Abuya, T, et al. (2017) (57)	Kenya	Finance Protection	Financing	 -Moving from FMS (free maternity services) to NHIF (National Health Insurance Fund) using different programs during a long period of time: 1-10/20 program, a fee of 10 shillings at dispensaries and 20 shillings at health centers to register clients with a maternity card. 2-NHIF program (not achieved) 3-Selling vouchers, these vouchers were sold for \$2 and specifically targeted poor women, as determined by a standardized poverty grading assessment administered to each potential user. (a successful program). 4-Working on HCF strategies with 4 pillars 	The transfer is a mechanism of achieving UHC, eliminating dependency on free services, and encouraging people to take responsibility of their health. (According to the interviews the process is a meaningful way of achieving UHC).

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