



## How Medical Professionals Improve Healthcare Systems Globally

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### Abstract

Health systems are continuously being reformed, affecting the work conducted and careers of many people across the world. Broadminded health sector reforms are instigated for various rationalities, though the likelihood of success is often defended by the championing leverage of solid evidence. Some of the major and most topical reforms are discussed, a necessarily brief review that nevertheless presents a snapshot of health reform on a global scale (Braithwaite et al., 2016). Further, health systems worldwide are investigating “proof” levels applicable to the specific contexts and demands they face, with differing frameworks for those investigations that often depend on the maturity of their sector. In countries where the health sector is less developed and advanced, the possibility of learning from “best practice,” particularly from developments underway in other, often richer, health systems, is very much the goal. The complex systems influencing health service outputs and outcomes are provocative and demand simplistic interpretations. What is nonetheless clear is that efforts to



reform health systems vastly increase, and in doing so, lessons are being learned globally. This accelerating effort on behalf of a “better” healthcare is the impulse for the critical discussion provided and the snapshot of activities surveyed. Broadly, these serve to emphasize that an informed awareness of what has transpired, and consideration of the complexity and historicity of activities being implemented, can provide a starting point for more fruitfully informed future efforts. An endeavor that seeks continuous improvement, strengthened via more rigorous empirical and theoretical examination, will generate lasting and meaningful discourse on health systems and their impacts. In arguing that one productive respect in which this discourse might advance is through the further understanding of implementation, the intention is to encourage more critical and reflective analyses and evaluations and, thereby, to progress in the common goal of improved health system performance across the world.

**Keywords:** medical education, transformation, change management, global health, learning, health systems, appraisal, improving quality, performance measurement

## **1. Introduction to Global Healthcare Systems**

Commonwealth countries and the German and US health systems are descended from the same, British philanthropic tradition. Although all differ significantly today, they share core characteristics such as universal access, relatively high levels of funds (though here resources are distributed unevenly and inequitably), and they offer services through a mix of public and private providers. There is no comprehensive data set, either global or for a selection of high-income countries, which measure health systems' performance from a systems perspective. In contrast to clocks in the hallways of politicians and senior bureaucrats, which measure how their health services are running, such a data set should assess health systems according to the health gains they make possible, in the most population-wide fashion as they can. Countries for comparison can be more fruitfully chosen according to similar GDP per capita levels.

This fragmentation inhibits transparency; aggregated data sets to analyse the system, its productivity and efficiency, its effects on equity, access to care and health outcomes—are lacking, and without informative measures it is hard to know which levers to pull in an attempt to effect change. Of 190 countries with health systems, there is no ‘best’. Goals in need of commitment within complex adaptive systems that must necessarily be ‘good-enough’. Broadly, tallying the health systems delivery efforts of scores of disparate countries might usefully focus on two levels: broader, societal measures which aim to benchmark the overall, population-wide, or system-level functioning of a health system; these might include extensive ranges of indicators seeking to capture the health system’s impact on the health of populations, as well incentivising delivery of care of acceptably high-quality according to specific public health challenges, the strength of a system’s legal and regulatory frameworks, resource generation and allocation, the level and distribution of financial protection, and a



range of measures assessing and hopefully safeguarding health systems' overall responsiveness and equity (Braithwaite et al., 2016). Such measures must supposedly act as a counterbalance for public health policy to account for both the good and bad (but beneficial and harmful) impacts that health systems can potentially induce.

## **2. The Role of Medical Professionals**

For World Medical, the development of a global medical education strategy has been an opportunity to assess the current scope of work in medical education. There is a spectrum of volunteer expertise, skills, and clinical interests to gather, encompassing capabilities in medical practice across the UK and US as well as numerous other countries and health systems. A broad program of medical education can be advanced for trainees and a broad spectrum of health professional faculties to ensure care is provided in line with current standards and the latest evidence but also to ensure ancillary programs consider patient experience. This aligns with recommendations from the National Cancer Strategy in the UK and US, which highlight the development of clinical nurse specialists and other allied health professionals in order to ensure work on an MDT is considered. It is imperative that multidisciplinary teams (MDTs) seek to provide patients with hernias at diagnosis and following changes in treatment with a comprehensive range of treatments available in a timely manner that support the goal of providing the recommended treatment to patients.

It is recognized that a comprehensive approach to patient care is impacted by surgical procedures and so management priorities are awarded to surgery and multidisciplinary auxiliary programs so that patients can be managed within the recommended timeframes. Volunteer experience nurtures a broader range of clinical skills, in addition to the profession itself, such as leadership or managerial skills, as well as skills in areas such as communication and teamwork, which are relevant to a number of areas of medical practice. Volunteers can work collaboratively with allied health professionals in the region to further enhance care. Ancillary programs considering patient experience and dignity are also in the process of being developed, alongside work to build the capacity of services in providing such care (L Outschoorn, 2022).

### **2.1. Defining Medical Professionals**

What are medical professionals? Medical professionals are one of many types of highly skilled people whom nations and patients rely upon to care, raise standards and redesign faulty practises. Medical professionals can be defined as a physician or other individual who is qualified, by education, training or experience, to diagnose and treat clinical Medical Professionals delineated based on the ILO and EU-EPC study . Professional behaviour and expectations for a Medical Professionals are regulated by healthcare organisations, national laws, national standards, ethical practice guidelines and other professional rules. Medical



students are expected to act professionally towards faculty and patients, with doctoring beginning at the bedside . Key attributes of professionalism include accountability, altruism, excellence, and humanism.

Professionalism is an important attribute; studies regarding professionalism in peer-reviewed journals provide an important perspective on its perception, manifestations and assessment among medical learners and practicing physicians. There is an increasing scrutiny of candidates' professionalism in selecting students for medical school and residents for subsequent training, perhaps because of high-profile instances of academic, research, and financial misconduct. One qualitative description study of patients, fixed-site clinic supervisors, and university-based faculty identified factors important in professionalism as a shared understanding among learners, faculty, and patients the unconditional acceptance of patients, the importance of being able to rely on patients and the lack of trust when patients change. Medical professionalism is a broad concept that defies a simple definition, but it generally involves a set of values, behaviours, and relationships that underpins the trust the public has in the availability and quality of medical care. Professional behaviour and expectations for a Medical Professionals are regulated by healthcare organisations, national laws, national standards, ethical practice guidelines, and other professional rules and include both clinical and non-clinical actions. At its core, medical professionalism is characterized by the belief in acting in the best interests of the patient. But the concept includes other elements as well.

## **2.2. Key Responsibilities**

1. Topics in safety, living conditions, and access to healthcare have gained support in health care and public health over recent years. The development of the surgical safety indicator is used widely to assess the quality of surgery across all providers. A campaign with ambitious goals for surgical safety improvements could encourage the development of a similar audit system in other countries, as there is a seek to invest financial assistance in less developed nations. Efforts to assess living conditions and access to care in third world megacities are increasing in a new collaboration between health services in six countries. Benchmarking data on infectious disease, pregnancy, injury, access to care, life expectancy can be obtained through high quality urban surveys. There are possibilities to expand the current set of directly comparable questions and to adapt survey questions for use in other countries. Generally, there is a need for further international collaboration and further progress will rely heavily on shared expertise, since even minor methodological differences can render comparative results inaccurate and misleading.

2. The waste in global health and development spending is concentrated in a very small number of multinational corporations and procurement related inefficiencies. Both donors and national stakeholders can help to reduce waste by increasing use of pooled long-term



funding agreements, increasing transparency in contracting, and adopting a professional conference boycott on publications that require onerous fees from publicly funded researchers in low- and middle-income countries.

### **3. Challenges in Global Healthcare**

The healthcare sector in many parts of the world, particularly Africa, is in disarray and unable to provide the vital service needed by local populations. Providing an evidence base for health policy is of paramount importance, as it may help in ameliorating global health. One hundred key opinion leaders in 44 African countries were asked to identify the key challenges facing healthcare systems in Africa. Challenges were ranked and a root cause analysis was selectively conducted for economic sub-Saharan Africa. Responses were collected from participants in an electronic round-table discussion. A validated electronic media-based questionnaire was used for the elicitation of issues and solutions. The responses were tabulated and the most-mentioned clusters were identified.

Reflection of the views of the participants of a wide range of electronic media platforms had a self-selected population of highly skilled specialists and may not reflect the views of health workers on the ground. Nevertheless, the views of such respondents can provide useful insights into the major challenges facing healthcare systems. This is important, since it is expected that the adoption of measures to reform the health sector in Africa will result in greatly improved health outcomes on the continent. At present, healthcare systems in Africa are mostly in tatters, and unsurprisingly Africans still have the poorest health on a global scale. Progress is stalling and life expectancies in Africa remain the lowest in the world. Given this, the ongoing debate on how to attain health-related United Nations Sustainable Development Goals becomes exceedingly pertinent. With this in mind, opinion leaders in healthcare were asked to identify the main challenges facing the healthcare sector. This is an important question, as answers to this query should be integral to the much-needed reform and improvement of the health systems in Africa. Additionally, for the first time, a root cause assessment of challenges selectively was conducted in countries situated south of the Sahara (O Oleribe et al., 2019).

#### **3.1. Access to Care**

Access to Care played a pivotal role in the history of healthcare policy in the United States. As prominent hospital systems attempt to manage the burden of poor populations on the provision of care in cities challenged by declining fiscal viability, the exclusive focus on access risks re-inscribing the marginal status of care for the poor, especially the public hospital, in the age of the global city. The reformers of underfunded urban health systems at the turn of the last century also recognized that expanding the number of people who had access, did not in itself ensure good care, nor did it guarantee the decline of preventable



illness. To enable the “unmeasurable betterment of the masses of our citizens,” what became the Schurman report acknowledged the need for state-of-the-art treatment (Nambiar et al., 2016). There is broad agreement amongst health professionals that efforts to improve health in resource-poor settings have to extend beyond an exclusive focus on service provision of care, to measures to improve the quality of the care that is provided. Improvements in health-care quality can in itself contribute to healthier populations. It is notable that the barriers to delivering high-quality care are often similar across different health systems. Nonetheless, the tradition of quality improvement in the global health arena has been more familiar to those working in high-income than in resource-poor settings. Here, there is a call for a renewed focus on the quality improvement of health-system delivery by policy-makers, managers, and health-care providers, working at all levels of health-care systems in resource-poor settings. To maximize the potential of quality improvements, an approach is proposed, focusing on five elements: systems thinking, stakeholders’ participation, accountability, evidence-based interventions, and innovative evaluation (Dussault & Cristina Franceschini, 2006).

### **3.2. Quality of Care**

Despite coverage improvements, the quality of health systems is generally poor across low- and middle-income countries, especially in rural areas. There is generally low treatment and preventive care utilisation. This gap, between health care coverage and access and quality of care, is now recognised as a global priority in low- and middle-income countries. New metrics have begun to shed light on this gap: within a given health care delivery domain, care quality provided is almost universally far below minimum acceptable standards. A country’s progress in attaining quality of care is improving far slower than hard-won progress in expanding health care coverage (Nambiar et al., 2016). An innovative country-led monitoring framework for care quality, known as service provision assessment plus, is also showing alarmingly low levels of care quality across a diverse set of low-income countries.

Quality of care assessments raised concern that the global improvement in health care coverage has only very minimally translated into actual care quality in most low- and middle-income countries. A rights-based progression of care is adopted as a conceptual framework to improve care quality. It delineates a minimum standard of care that must be provided across all resource inputs and service components in primary care domains. Prioritised needs for the evidence community to guide this agenda are also addressed: harmonisation among data sources, innovations to integrate and augment existing data, and embedding improvements in care quality metrics within both strong theoretical foundations and an adaptive and iterative learning approach. Maximising the impact and sustainability of all such quality improvement efforts will also critically depend on addressing a range of cross-cutting needs. To further these goals, the knowledge needs and investment needs of this nascent field are elaborated on and a multi-stakeholder research collaborative well-placed to meet them is proposed to



“boost” on the efforts currently underway to elevate the standard of care quality across health systems globally.

### **3.3. Healthcare Disparities**

Considering the extensiveness and complexity of disparities in healthcare, this paper documents the impact that professional and medical scholars can have to reduce disparities in care within international, nationwide, and local communities. The first theme discusses the need for quality care to be distributed to all patients equally. Socio-cultural determinants and the possible beneficial effects of improving education and promoting accountability are discussed here as ways to both reduce the prevalence of disparities in care and improve effectiveness. The next theme begins by describing the ever-growing epidemic of non-communicable diseases worldwide, only recently declared as such by global organizations. It is then suggested that professionals can more effectively reduce disparities in care by harnessing their expertise and focusing their efforts on specific diseases and affected populations. The paper lastly elucidates the broad array of potential contributions young scientists can have, spanning the gamut from policy to technology (Thomas, 2014). It is argued that, through disseminating results, stimulating collaboration, advocating for improved data collection and attribution, and harnessing widely-held ideals such as the best interest of the population, reduction of disparities in care can be accomplished at an accelerated pace. Despite decades of effort and the prodigious resources expended, disparities in care persist worldwide, afflicting virtually every aspect of medical practice and contributing to a wide range of poor health outcomes. These disparities have been recorded for countless populations, diseases, and interventions, often persisting in developed and developing countries alike. However, there is an unequal distribution of communication of the disparities literature which largely benefits the mainstream American discourse. Such disparities in the dissemination of evidence foster an erroneous presumption that the underlying determinants of disparities in care are uniform or misguided and that the successful fight against such disparities would necessarily rely upon characterized approaches. An ongoing fight against disparities in care, aimed predominantly at raising awareness and correcting deficiencies, is ineffective at best and, at worst, may divert attention away from potentially effective avenues (LeeShell Holliman Douglas, 2014). Addressing the prevalence of disparities in care requires a re-evaluation guided by the best scientific evidence, revolutionary thought, and intuition, followed by equivocation and expeditions, empowerment of civil societies, eradication of colonial, leadership of biases, and the advancement of innovation.

### **4. Innovations in Healthcare Delivery**

Healthcare systems have been implementing new and innovative care delivery models around the world. These models come in a variety of shapes and sizes, but they are similar in their



efforts to improve patient and provider satisfaction, service quality, and cost-effectiveness. Initially driven by the US Affordable Care Act (ACA) of 2010, systems worldwide are actively working to redesign and improve care delivery models for both inpatients and outpatients and focus on better integration across the primary, specialty, acute, and post-acute care continuum. Recent programs in the United States aim to improve care service quality and safety, patient and provider satisfaction, and to reduce costs. Current efforts include the launch of new payment models, national accountable care organizations (ACO) initiatives, expanded telemedicine services, and hospital-at-home programs for acute and skilled nursing care (Bardach et al., 2022).

Revaluation of these experiences highlights the opportunities systems have in benefitting from the many lessons learned to date for those innovators seeking to go further faster. Understanding the challenges and pitfalls of care redesign programs can inform better future resource allocation towards those aims—and, ultimately, ensure that healthcare innovations are progressing in a sustainable and scalable manner. In its third year, these efforts stand well ahead of originally planned schedule with operational implementation of four Episodes of Care and six Care Redesign Service Lines. By critically evaluating experiences, this article highlights and offers approaches to challenges systems may face in reaching those end goals—rapid, scalable, sustainable, and transformative care delivery model redesign. Given the many barriers to—and, ultimately, the many approaches to promote—successful care redesign, it is useful to be more concrete about the programs and add a few key themes to consider. Common to many lessons learned about care redesign efforts, provided insights also underscore the critical importance of dedicated electronic health record (EHR) information technology (IT) and analytic support, ongoing leadership engagement and communication, the need for flexible guided innovation support, consideration of changing healthcare policy and competitive landscapes, and time for the change ecosystem to adapt.

#### **4.1. Telemedicine**

In 1993, when I was 39, I spent a month at the Gimbie Hospital in remote Ethiopia, teaching eight Final Year Medical Students as a VSO. The students spent two hours a day in the operating theatre, two hours on bedside teaching rounds, and two hours in a ‘clinic’. They listened to the lung and heart sounds of all the patients in the male and female medical wards. Some weeks into my stay, I was asked by the Hospital Director to see the two Americans who worked at the SSS for a respiratory problem. The students heard them cough, examined them, and afterwards said to me that their chests were clear, and that they both had bronchitis. In the UK, the students were mostly right. Therefore, I started giving the students individual teaching cases at the bedside every day, patients they had examined, seen me examine, and about whom they had heard the chest and heart sounds every day. There were eight students;



there had been only seven. The five who had completed this ‘triple partnership’ thought the teaching fantastic.

I could not understand ingrained and endemic practices such as the use of unsterile hypodermics, which were only part of the wider issue, as there was a lack of sterilizing equipment which functioned at least 50% of the time. In the UK, I had worked in big hospitals, with resources such as microbiology labs, X-ray, CT and MRI. There were no X-rays or CT in Gimbie. There was an operating theatre at the hospital in Gimbie, but the Database from Addis Ababa listed it as ‘non-functional’ (N Mgbemena et al., 2021). To address this unmet need, a Global Telemedicine Outreach programme was conceived. Firewire telemedicine is a recent technological development which allows the real-time transmission of basic clinical data from remote places. E-mail is reliable and not expensive and is now available even in some developing countries. The idea is that each medical school in the Developed World should aim to set up simple telemedicine links, via e-mail, between their specialists, and doctors in the hospitals in the Developing World, where their Final Year Medical Students spend elective periods (Vassallo, 2000).

#### **4.2. Mobile Health Applications**

Currently, mhealth apps are widely used by people to monitor their health status. A huge amount of big data is collected through these applications. By analyzing this data, it is possible to have an overview of the health status of the people of each area and take effective actions to improve their health status (Aghabozorgi Nafchi & Aghabozorgi Nafchi, 2019). Implementation of mhealth apps with the ability to store historical data and analyze the vital signs of users over time will be beneficial for early detection of diseases, which can improve community health. Recording patient-related data and vital signs of the patient and analyzing this data to diagnose or predict diseases will play an important role in health and will be at the basis of preventive medicine. However, in most cases, user data in health applications are stored in their data centers, which may not be secure. Patient data theft can put lives in danger. This will increase the need for new technologies in this area and the development of the concept of health distributed data and health cloud computing, a secure system for storing and analyzing health data of patients all around the world.

It is essential to record and analyze the vital signs of the population in community health. It is possible to maintain the health status of the population through the instant recording and analysis of the vital signs of the person and identifying the contaminated area. For this purpose, mhealth applications are created that will be synchronized with the smart accessories of the person and that will be instantly analyzed and recorded over time. In recent years, the spread of diseases like Ebola and cholera has increased. The frequency of visiting the infected area and keeping the symptoms was used earlier, but with the growth of



technology and the methods used in epidemiological surveillance systems, this is done using the latest smart technologies of the person and the mhealth application.

### **4.3. Artificial Intelligence in Diagnostics**

#### 4.3. Artificial Intelligence in the Diagnostics

The advancements of healthcare for better works is globally one of the most critical global matters. Healthcare is shaping up with advances in digital healthcare technologies in every industrial sector. Digital healthcare presents numerous opportunities for reducing human errors, improving clinical outcomes, and tracking data over time. In many areas, AI approaches from machine learning to deep learning are fully utilized in this way. These AI processes are assumed to have a transformative capacity to enhance clinical systems such as patient information and records and improve the ability to treat different ailments. Mainly needed for the early identification and evaluation of diseases, the available AI approaches are most effective. The emergence of AI as an instrumental strategy for improved medical care presents unearthed opportunities to enhance patient and clinical group results and at the same time, minimize costs. AI can also be used to understand demographics or environmental regions where diseases occur or behaviors that tend to be high risk (Kumar et al., 2023). In these and many other disease evaluations, AI has been discovered and used in diverse ways by many groups in the scientific community. For instance, a deep learning stratification approach has been effectively applied to demonstrate links between environmental and obesity rates. Nevertheless, to attain an acceptable level of performance, AI methods need to be trained on data that depict the population. Accessibility to diverse data sources is thus instrumental.

Business trends such as the exploder of digitalization, e.g., the increasing demand of electronic health records, have created an ecosystem for data-rich healthcare. Nonetheless, this increase in data is not always useful to the person or shop that collects it. There are now several frameworks for summation that make it possible to merge and summarize data from various sources, allowing data to achieve sufficient quality for applications of AI. Yet, despite the recognized potential, there is no widely agreed way for AI technologies to be brought into dynamic health systems. The manner in which academic work with healthcare enterprises should be encouraged, the need for ethical oversight, and the need for rigorous validation of the technology are some of the challenges posing important requirements. The current article aims to use a review method to compile this information with the objective of decreasing the barriers to the use of AI approaches in dynamic health systems.

### **5. Education and Training of Medical Professionals**

Research indicates the necessity of standardized policies and procedures in medicine, including decreasing human error and malpractice. The WHO identified ‘responsiveness’ as



one of the fundamental goals of health care systems, suggesting at least a thematic and philosophical alignment in terms of how medical care and learning and training approaches are understood and structured across geographic and cultural boundaries. The implementation of global organizational governance based on the safety and quality of (medical) care has been successful and supports a global approach to norms and standards (L. Outschoorn, 2022). In tradition of ‘don’t reinvent the wheel, reinvent the way you get around,’ continuous quality improvement (CQI) in health care supposes there is always room for enhancement of effectiveness and efficiency; although initially related to the concept of business process reengineering, this also seems relevant in the context of a shift of paradigm in educational standards from quality assurance to CQI (transforming education) in that perspective, there’ll always be something to improve for both learners, residents or participants, and programs.

Health workforce imbalances – deficits, geographical or specialty-related mal-distribution of workers, new health threats aggravated by urbanization, conflict or disaster – are present overall; while pluralistic in scope, there’s a tendency almost upward [of 90%+] for all parts of the globe to manifest shortages, financial constraints, and insufficient and relevant educational and training opportunities – at the same time, such imbalances reveal morally and technically paralyzing phenomena of excessive, risky (often adverse to patient safety) workload and rampant underemployment, often affecting segments of populations that are most in need of adequate and quality care (Wheeler et al., 2014). There’s an urgent need to scale-up the volume and health professional staff and adjust their educative and training arrangements according to the new and multiple challenges of epidemiological and demographic features, in the WHO parlance to stride towards the universal health coverage (UHC) within the context of the sustainable development.

## **5.1. Curriculum Development**

Improve an article in medical education for publication in World Medical & Health Policy on how a global approach can be effective for medical professionals in improving health care systems worldwide. There are several options that can be taken when it comes to ensuring that a consistent, quality-based, internationally-recommended approach to developing and adjusting medical education with the objective of improving health care systems is provided at World Medical. World Medical may not need to reinvent the wheel but can instead piggy back off other prominent international medical organizations that have developed similar schemes before. Top recommendations include the integration of a global medical education strategy, as well as additional support for research and collaboration, and health worker patient safety.

Research is abundant which demonstrates the importance of standardized policies and procedures in medicine, not only for improving the quality of clinical practice and medical care, but also for decreasing fatal levels of human error. The latter is particularly relevant for



World Medical, as the requirement to “do no harm” is one of the cornerstones of medical ethics and practice. Furthermore, World Health Organization identified responsiveness as one of the fundamental goals of health care systems. Essentially, health care systems must be able to accommodate the changing health care needs of patients while respecting their expectations. Structurally, this means that access to health care services must be “immediate”, as well as consumer-friendly .

## **5.2. Continuing Medical Education**

A major gener in health care white coat ceremony is. Underpinning the motto “primum non nocere,” aspiring health care providers from each allied healing professions are gather together to ponder and to ponderate their future job responsibilities and the oaths they are about to take together. Literally, the first benefit of the practice of medicine is doing not harm. There is no doubt that numerous medical practices have done enormous harm to the patients. Health care delivery keeps changing spontaneously so medical practitioners keep abreast with new algorithms, new guidelines and new policy when those patients takes their rightful places somewhere on the front lines.

Continuing medical education activities are learning events designed to help physicians or other health care providers maintain, develop, or improve the knowledge, skills, or professional performance and relationships, they use to provide services for patients, the public, or the profession. The content of CME is that of activities about which there is a reasonable expectation that the education will result in acquisition of knowledge, skill and attitudes. The concept of CME has taken many different forms, but historically it has been geared towards strengthening the knowledge of physicians and other health care providers in their particular area of specialization or practice. Doctors, nurses and other health care providers are the backbone of the healthcare system. The performance of these medical professionals have been measured by their finished results. Incorrect diagnosis, erroneous treatment, wrong operations and discharging against medical advice are the most common medical errors that medical caregivers can make without keeping them update with the current clinical knowledge and new diagnostics and therapeutic modalities developed. There are almost 10000 kinds of diseases and thousands of types of pharmacotherapeutics currently, guidelines and common strategies of treatments have been already outdated. The necessity and importance of CME is inevident. As another regulation of CME regarding the licensing system, once medical professionals have obtained the qualified practice license should join and part take the CME activities. In the other hand, relevant professional organizations and scientific societies became a designated CME provider. From the very bottom line of continuing skill development the CME has four types of basic categories, which are theoretical lecture seminar, workshop for skill learning, symposium and conference and postgraduate training program.



### **5.3. Global Health Initiatives**

#### Introduction

Research is abundant in demonstrating the importance of standardized policies and procedures in medicine, including decreasing human error (L Outschoorn, 2022). Fellows with medical licenses are striving to operate in the global medical community, but care is hindered by differences in health care legislation, training, and health care culture throughout the world. Intellectual approaches initially created in other sectors have gained success, such as global aviation safety, which has fairly simple successful strategies, such as common working languages for tower and pilot communication, writing instruments, height, weights, and measures. The World Health Organization identified responsiveness as one of the fundamental goals of health care systems. As such, the commitment of compassionate, clear, and fast contributions, institutions and facilities in the World-Wide Movements Route Goal Number 6 is a component of the International Health Charter for the Modernization and Render Nature completely important. Accessibility and cost are also important, but they also require decomplexing problems so as to be largely sectoral and related to respective health care systems or a lack of preventive care. Improve patient care quality and safety in all health care systems, although dependent on individual health care settings, medical practices and professionals, they are more universal and not only oriented towards health care but also on the setting of their education and training.

World Medical has implemented global standards in other areas, such as medical standards of care. These stand for World Medical's optionally elective surgery requirements, such as the medical equipment on hand, patient selection criteria, and medical record documentation. Such requirements, implemented by national medical associations, have significantly reduced the need for commercially careless surgery, particularly in the enhancement of care venues implicated in hazardous actions for the enhancement of medical professionals. Continuous quality improvement in health care is mainly based on the premise that there is always the opportunity of enhancing effectiveness and efficiency. This paradigm shift in medical education all over the world in the last few decades has been taken place from quality assurance to continuous quality improvement. There are indications that medical regulators are going in the same direction, including the Medical Council of New Zealand, which is included in the Professional Capability and Medical Council Statement. It is very encouraging to feel that such a joint initiative was held as new questions and results conducted and reflects a pluralistic neo-liberal theoretical framework. There exists a clear thinking synergy between high-income countries and coordination in curriculum design and training approaches.



## **6. Collaboration and Interdisciplinary Approaches**

Healthcare systems are exceptionally complex and frequently access a specialized approach when employing processes to address their differing issues. Professionals in healthcare naturally use evidence-based practice to guide and to justify their decision-making, an approach that also includes a critical analysis of current studies (L Pott & M Drake, 2016). Interdisciplinary teams can expand and strengthen individual areas, appreciating the complexity and distinct expertise of each sector, and subsequently while collaborating, enhancing the development of a more inclusive approach.

Pregnancy can be a joyful time but it also has both inherent and increased risks. An interdisciplinary, inter-professional team approach will most effectively and efficiently produce better outcomes for mom and baby. The prenatal care system is functioning inefficiently due to recent changes to prenatal care procedures and is impacting the health of high risk obstetric women. A solution to this problem is to improve the efficacy of the current system through the creation of a pregnancy care course for medical and nursing students where they will learn current high-risk procedures and work together as a team providing care for high risk obstetric patients.

There is a growing call for medical professionals to create a “consensus-based, interprofessional, intersectorial, and all-encompassing aspect” to healthcare. Supporting the notion that students’ clinical days at a partnership-based clinic setting increases their service-orientation disposition, this project is unique because it focuses on several levels, including motives and possible effects on third parties. In the future, it would be interesting to further investigate whether inpatient’s social behavior changes as a result of receiving service-oriented care from students. Additionally, the project aims to understand the effect of working in a partnership-based clinic setting on departments’ sense of trust with one another. In further implementations of this project, it would be interesting to study the effect that the clinical experiences in a partnership-based clinic setting have on students’ growth, mentally and academically, and whether it empowers them to become high-functioning professionals and interprofessional team members.

### **6.1. Team-Based Care**

Team-based care is an integration of patient care services by multiple healthcare professionals, ideally team members from various fields, who jointly deliver comprehensive patient care while also considering the respective member's specialty. Evidence has shown that the team-based model has a growingly favorable effect for managing chronic diseases in aging populations, integrating behavioral health services with that of general primary care, refers to improving the primary care system with public health to address the burdens on providers during emergent healthcare situations in the time of public health crises. It is



because in the organization of team-based care, the specialized expertise of each team member complements that of the others, which in turn can further help in the even distribution of the delivered healthcare services, efficient time management, as well as the workload division, to make the scope of work inclusive of all the necessary procedures needed to ensure the patient will not have to return unresolved issues, thus furnishing the comprehensive care to the patient. Team-based care is resource-optimized healthcare, a form of patient-centered care, in that the use of limited resources can be combined most efficiently, and the perspective on the beneficiaries for whom care is provided is emphasized. Under this care model, the quality of the care service is improved, and on the other hand, the sense of satisfaction for both the patient and the team member is increased, and the efficiency of the health services is optimized. Successful team formation in primary care settings requires more conditions, the main components of which are team members and their work environment. Adapt to the team delegation arrangement to complete all work tasks, an efficient and well-coordinated team configuration, team members work responsibilities and division of the scope, and establish a consensus of team goals and a clear consensus of team roles play a decisive effect on the building and operation of the team. Organizational factors, such as the division of a facility into multi-disciplinary teams in a geographic area, organizational structure with pre-built associations, resources, and integrated determination in system functioning can hinder or otherwise facilitate teamwork has been noted, and these factors play a critical role in shaping the pathway to effective care. In addition to these elements, other characteristics that are indirect but potentially significant for team development are familiarity, communication, cultural normative factors, and dispersion in the workplace, and the establishment of a system that resolves such obstacles will serve beneficially in promoting all the various aspects which are converging to organize a system of team-based care.

## **6.2. Public-Private Partnerships**

By definition, public-private partnerships are mixed forms of social arrangements involving the state on the one hand and private sector actors on the other. They combine state, i.e. public interests with goals and the principles of private sector firms. A health sector PPP can be generally defined as a jointness in projects and programs that implicate state-run health services on one side, and for-profit and not for profit private sector agents, e.g. individual entrepreneurs, commercial companies, religious or other non-governmental organizations, professional associations, trade unions and employment and employer associations on the other. Therefore, public-private partnerships are supposed to enhance the efficiency of health care delivery and increase access to health services for low income groups ((Priscilla) Schwartz, 2010).



The initiative for establishing public-private partnerships can come from the state or from corporate actors, depending on the specific health systems' perspectives and other contingent factors. A health system is successfully co-produced if the delivery of health services under an interrelated mix of health interventions by government and other partners, such as private practitioners to the outreach of immunization and health services in slums, suburbs and rural areas. It is essential that these types of social arrangements enable inclusiveness in decision-making in a decentralized health system, and support centrally coordinated national PPP initiatives (Cyprian Kamugumya, 2015).

### **6.3. Community Engagement**

Community participation in health service planning and implementation is a key principle in the Alma-Ata Declaration of 1978. The Declaration defines primary healthcare, as essential healthcare made universally accessible to individuals and families through their full participation and at a cost that countries and communities can afford to maintain at each stage of the development in the spirit of self-reliance and self-determination, as the key to achieving the goal of 'health for all', and as an integral part both development in general and the social and economic development of the community.

Primary healthcare should promote maximum community and individual self-reliance and participation in the planning and organization of primary healthcare services. Community participation is a prerequisite for having an effective primary healthcare strategy that improves health status in the long term. It is recognized as an essential task to ensure the social legitimacy and sustainability of health policy and services. Structured community participation in health service planning and implementation is essential for the efficient utilization of health resources in countries where resources are scarce (Kaba Alhassan et al., 2016). Global experiences show the importance of involving service recipients and local communities while making priority setting and distribution decisions especially in resource-limited settings. Where resources are scarce it is essential that community needs, preferences, and resources be carefully considered in all aspects of service delivery. A mismatch between facility-based health services and client needs and expectations would lead to low utilization of health facilities, suboptimal quality of services, and non-compliance with medical treatment. This mismatch also often becomes a key constraint in achieving health program goals and ultimately impacts on health system efficiency.

### **7. Policy and Advocacy**

Timely and meaningful change requires partnership with medical professionals worldwide to develop strategies on the path to high-quality care for all. These strategies evolve and adapt to unique political, environmental, and social landscapes, but many approaches are universal. Six stand-out systems change approaches include professional development and training,



community empowerment, progressive budgeting, combined service delivery, key performance indicators, and policy and advocacy. By sharing successes and insights around the world, the systems change can be rapid and sustained as all members of this global community unite. Viewing the series is the first step to unity of the bioconserve world to promote universal breakthroughs in health and protection in one of the most remote and vital corners of the earth. Translations initiatives are largely concerned with capacity building and training of health professionals and are an important pillar of this broader movement. Human Resources for Health works extensively with partners to establish a general mechanism for ongoing onsite coaching in contributing Centers and has showed a high level of potential sustainability. This experience amply demonstrates the need for constant international partnerships, financial support, strong national coordination and that patient outcomes improve when attention is given to the entire system. In this case, the introduction of care required at least three years of preparatory work in health facilities as well as strong communication and orientation for all players in the health. Raising awareness can initiate a transformation of the systems that support global health delivery. Immersive experiences through moving images sensitively framed and carefully directed can expand the reach of health and environmental knowledge.

## **7.1. Influencing Health Policy**

Today's medical professionals have unprecedented opportunities to enhance survival, quality of life, and resilience for individuals and populations. Over 10 million health science students annually graduate in over 200 countries, and the vast majority aspire to make a positive impact through clinical practice, public health, outreach and research. Federations like the European Union, the Arab League and the African Union have come to encourage harmonization in professional education, agreeing core learning outcomes to be achieved in settings ranging from universities to apprenticeships. Yet, until today, there has been neither a global forum nor a strategy to collectively improve healthcare systems. Drawing from mainstream practices in industry, governments and professional sports, here the Medical Education Reform Initiative (MERI) is launched to provide an open, transparent, template for regional and national leaders to: a) define a shared vision for the physician's role in healthcare systems; b) identify a set of metrics to monitor change; and c) realize change through federal regulation, local experimentation, and professional engagement (L Outschoorn, 2022). Five strategies are proposed to better prepare medical professionals to meet the current measures of environmental health: i) formal adoption of PLANETARY HEALTH; ii) organization of regional conferences in collaboration with existing federations to adapt recommendations to local culture, resources, and health challenges; iii) adoption of guidelines by regional, national or local governments, specifying a minimum number of contact hours to be spent on each facet of sustainable and equitable healthcare, including linguistically and culturally competent interaction with patients; iv) development of an open-



source evaluation tool, encompassing knowledge of current health threats and the healthcare system, as well as the ability to change own lifestyle and practice; and v) transparency of medical schools' findings, best practices and contemporary hardships to the wider public to systematize their local solutions and spread their impact. For the first time, medical faculties are encouraged to routinely measure their current share of teaching time on different issues, so progress can be better appreciated, and best practices adopted.

## **7.2. Advocating for Patient Rights**

Health advocates work to protect patient rights and improve healthcare systems throughout the world. They accomplish this through a variety of approaches, including facilitating complaints to the health system, raising public awareness of health rights, engaging in health rights litigation, and lobbying the government. By mediating power imbalances between patients and healthcare providers, advocates can promote the views of patients before healthcare providers and even present legal arguments in a court of law. People have different reactions to these efforts. Patients and medical professionals who feel assaulted by these services may be defensive. On the other hand, some welcome a neutral assessment from a third party; they believe it can only improve services and maintain a higher standard of care (Stoddart et al., 2020). A study was conducted to examine the work of health advocates in Mozambique and legal professionals in Sierra Leone, responsibilities that are respectively shouldered in many countries by health committees and district lawyers. Mozambique and Sierra Leone were selected for their differences in legal empowerment, which made it possible to investigate the far end of the integration spectrum. Data was collected through a literature review, document analysis, and semi-structured interviews with health advocates, legal professionals and service stakeholders in both countries. Besides standing in for clinic workers, these intermediaries enable case-based investigation of the flow of health rights complaints (Feinglass et al., 2016). In the course of their case management, they tackle the kinds of problems that laypeople confront when seeking to turn the formal commitments of health professionals, as expressed in patient charters and constitutional law, into a form of everyday justice.

## **8. Case Studies of Successful Interventions**

Delivery of quality health services relies on improvements in the local health system. Strong country health systems are responsive to the needs of the population, provide comprehensive and high-impact interventions, and fund long-term sustainability. Access to quality services by all groups, in urban as well as rural areas, is crucial to reducing inequities. Responsiveness requires functioning supply chains, health worker training, and light infrastructure, all driven by effective management and conducive policies. Interventions are needed to stimulate demand with information, education, and communication activities, while reducing financial barriers. In partnership with the Nigerian and Malian Ministries of Health, the MANDATE



Niger-Mali project of 2002-2006 took an integrated approach to improving the use of maternal and newborn care services that included interventions at both the community and the local health system level (Boucar et al., 2014).

There were modest improvements in the number of women receiving postnatal care in health facilities, but significant increases in the overall number of women (in Niger) and women and newborns (in Mali) receiving postnatal care from any source. The number of newborns receiving postnatal care increased equally. This was unexpected and may indicate a shift towards better quality care or an actual improvement in the coverage of postnatal care for newborns. The shift in care-seeking was due to the advice given to women from health workers. Communication and transport with health providers is difficult and costly. Some significant improvements in the provision of signal functions could be confirmed. Despite little improvement in actual practice regarding routine practices, cleanliness was relatively well maintained and remained consistent over time compared to other practices. Case-specific practices, such as the management of eclampsia, were still poorly observed. Delivery complications are difficult to recognize and difficult to manage, and need to be considered by the protocols developed by the competent authorities.

### **8.1. Case Study: Vaccination Campaigns**

In the effort to improve global health, public health professionals consistently innovate and evaluate new interventions. Meanwhile, the global health field consistently calls for greater attention to policy and systems thinking. Public health practitioners and scholars can learn from each other's expertise to develop, evaluate, and advance a framework for implementing and evaluating public health policy. These skills include specific knowledge of the public health issue, understanding of health systems, and ability to think about public health policy. Here, a project of mass clinical camps in South Asian nomadic population to prevent child undernutrition and vaccine-preventable diseases is used as a case study to provide practical examples of how scholars and practitioners can learn from each other.

Recent years have seen dramatic improvements in global child health. As one key example, increases in global childhood vaccine delivery have led to dramatic decreases in morbidity from vaccine-preventable diseases. However, these improvements in vaccination have been heterogeneous, with some countries demonstrating greater changes and sustainability. Understanding why some programs are more successful than others is critical for the development of sustainable global health interventions. A durable approach to vaccination program is crucial for maintaining population immunity and attaining eradication/viral suppression. A portfolio of 13 countries (Afghanistan, Bhutan, Burkina Faso, Chad, Congo DR, Mozambique, Myanmar, Nepal, Pakistan, Papua New Guinea, Uganda, Zambia, and Zimbabwe) was started with the aim of identifying the critical programmatic factors that have



allowed programs to successfully increase and sustain high vaccination coverage ( (A Bednarczyk et al., 2022) ).

Modern emergency services, in providing acute medical care to red zones, were extreme cases of verticality in COVID-19. For the first time, the region as a whole realized the necessity of focusing on local primary health care systems. The aftermath of the surge already indicated the adaptations done by the vertical medical system. A momentous decision was made by a regional government to employ a non-medical professional to run the whole vertical pillar, who effectively controlled and ran the center throughout the response time. In initiating phase of the COVID-19 pandemic of the South Asian developing country, although focus on verticality was imperative, the strengths of primary care and medical colleges were used to respond to the areas that the vertical health system could barely cover. Temporary COVID-19 testing and triage centers were established within the university in collaboration with Liked Agencies. The vertical of screening and awareness was channelized through the academic medical and nursing students. The emergent need for ventilator facility was addressed with the procurement of the portable ICU ventilator of the closed suction mechanism. To confront the out of the box challenges posed by COVID-19, the preparedness, low key deployment, and partnership with medical colleges and universities can benefit during the initiation phase of the emergency or pandemic. It is also critical to let medical professionals lead the health sector interventions to contain and manage any emergency.

## **8.2. Case Study: Maternal Health Programs**

The UK Department for International Development (DFID) Health Resource Centre assisted the Mali National Health Directorate's Reproductive Health Division to develop a scheme of cooperatives for midwife-led maternity units, and six cooperatives were piloted in Sikasso Region from 2001 to 2003. Overall, the scheme worked through a short-term, competency-based, face-to-face training programme for midwives, which included peer review and mentoring. It also provided continuing professional education through community-based small groups reinforced, supervised self-study, and quarterly review meetings. There was little demand for the five per village maternity units, mostly staffed by auxiliary midwives, resulting in an average number of deliveries per unit of 23 per year, with an average caesarean section rate of 1.3 %. However, the rate of intrapartum stillbirths was nearly double the global target of 2 per 1000 births (McPake & Koblinsky, 2009). In Sikasso the scheme was not sufficient to ensure 24/7 skilled care and emergency obstetric care for populations. Maternities were located very poorly in terms of avoidable delay. Consequently the ability to handle common, serious obstetric complications and receive appropriate post-partum care was limited. The conception of disease was biomedical rather than environmental, social, and behavioural. Maternity staff saw their job as being to provide medical care, rather than to attend to the emotional and social aspects of labour and birth. Women, on the other hand,



based their behaviour on custom, fear, and anxiety as well as on practicalities (Boucar et al., 2014). Female autonomy and freedom of movement was low. Men took all decisions regarding health-seeking behaviours and the choice of treatment for their spouses. Economic practices also hindered care-seeking, for example the trade-off between the immediate cash increased by selling milk. Women had little or no control over their ability to go home to their parent's house, and were also not supposed to return before 40 days post-partum cleansing ceremony. Malnutrition was usually identified as a chronic problem needing long-term attention. It was estimated that 92% of children in the rural proposed intervention area were anaemic. In mothers the prevalence of anaemia was as high as 75.7%, and few households had food diversity indicator values adequate for more than 50% of the population. Micronutrient deficiencies were obvious, but were not understood by community members. It was thought instead that foods in which micronutrients existed were themselves the cure. Poor health was generally thought to result from malaria, so children with kwashiorkor were simply treated for kwashiorkor. Diarrhoea was also considered a separate illness, particularly dangerous to children, and to be treated with ORS and changed feeding practices. Treatment was sought at/took place in the government clinic, free for under fives. A mixture of oral rehydration salts and boiled rice was given in cases of diarrhoea at the clinic, by traditional healers, and at home. On referral by the health worker most cases of simple fever were treated at the clinics through intravenous quinine. At the clinic food supplements were given in severe cases as an incentive for attending weekly follow-ups. The perception that shot-children, particularly boys, were invulnerable may have caused caregivers to put off treatment-seeking behaviour. When paediatric treatment-seeking behaviour did occur, most treatments were regarded as fairly ineffective. Trader treatment-seeking behaviour was divided, with no clear preference for either traders, traditional healers, or kuhak wutok.

### **8.3. Case Study: Chronic Disease Management**

Team-based Care Improvement Implementation Project (CARE IMP) is a multifaceted intervention that aims to improve the service delivery processes at the facility based team to manage type 2 diabetes in public primary health care facilities. The intervention is being implemented as part of PRIMary Care Health Equity Research trial in Tamil Nadu, India. The highs and lows, achievements and shortcomings, encountered experiences, and reflections on what strategies worked or did not work for effective team-based care improvements for managing type 2 diabetes are presented here.

Several intervention elements were identified as key to improving the team processes of the health facility in managing type 2 diabetes. These elements have had varying success in the intervention implementation process. To improve the diabetic service together, all health workers need clear tasks and responsibilities (Haroon Mahomed & Asmall, 2015). The team set out to do this, but it was too late for some, and the active participation of the teams to



achieve this goal seemed questionable. Undertaking this task is time-consuming, requires reflective practice, and understanding of each other's tasks, which is above what often occurs in a hierarchical system where managers are not often required to post-tasks from directly implementing staff. Bio-medical commitment and high caseloads from chronic diseases are the reality of Indian primary health care facilities. Ensuring all team members understand and accept tasks to improve the management of diabetic health care is the bedrock of success. This element was partially adopted in only one of the four control facilities, and in the two other aspects, there was no effective implementation of this element in any of the facilities to maximise the health worker team process effectively.

## **9. Future Trends in Global Healthcare**

In the context of technological evolution and the need to relieve the pressure on hospitals, it would be useful to implement a "smart" medical concierge system. 5G technology and the internet of things, in harmonics with artificial intelligence techniques, would allow remote health and quality of life monitoring of patients in domestic environments. The conceptual structure of the system, galvanized on a central module capable of collecting and processing a large volume of data and transmitting the necessary information to other types of devices, is presented. Each device installed in a patient's home communicates directly with this central module, ready for the AI to provide timely guidelines on the supervision and management of the patient's health (Schiavone & Ferretti, 2021). Moreover, the digital platform implemented within this system has been created to support healthcare professionals in analyzing information. The main challenges in making personalized therapy generally accessible are outlined, which sometimes require a different approach in economically developed countries, and sometimes in those less affluent. In the future, more and more importance will be attached not only to occasionally observed chronic diseases but also to the overall state of health and biological age of patients, increasingly involving comorbidities, in particular, elucidating the inter-syndrome link between diseases and providing a tailored therapeutic strategy. Moreover, in-hospital treatment pathways will be increasingly moved out of hospitals according to the concept of the further evolution of Health 4.0 technology, while inpatient wards will increasingly care for older, multimorbid patients. Analogously, the importance of Assembling Pharma (cooperation between medical entities) will grow, and further progress in laboratory exploration will allow real-time monitoring and predictive analysis of changes in a patient's health state. Most effectively, companies will be prepared that have foreseen the necessity of these changes and are concentrating efforts to shift the logic of their operation from the needs of a disease-oriented drug market to the market of products for the patient. The studies carried out to date in low-income countries show that such changes will be necessary because, while caring for an increasing number of older, often multi-morbid patients, expenditure on health care is low and the direction of increasing this kind of expenditure to take the form implied by an illness-focused religion.



## **9.1. Integration of Technology**

Medical professional's talents have to embellish their dialog, kindly talk, sympathetic understanding or compassion and mercy consciousness for the persons or individuals whom they evaluate, take care of or heal. This must not be just limited to considering their corporeal presentation but in addition have to think about their religious or emotional feelings. For the sake of sympathy or humane aspect, as a medical professional, you must notice the troubles, which the persons or the individuals whom you are evaluating, curing or healing are suffering from or those troubles may result in. You must also comprehend why they are suffering from those troubles or why they should undergo those troubles. A well-disposed exploration or examination can react to each and every of these questions or queries, although an impersonal technological exploration or examination can certainly not. Medical professional or physician engaged in medical practice intends to investigate injuries, illness or accidents which have occurred or might happen to a person or which have been or may be its result. Such a requirement could have quite justly creates a situation where it may be obligatory to give out the individual's privacy in order to find out what the material is about that individual. But it would never be right to also tell the treatments or tracings that we can offer to that individual's situation. Technological capabilities and computerization are advancing due to recent advancements globally. Intending progress of such progresses are the employment in Healthcare. Irresistible upgrades and advancements in technology should be put to good use in the examining and curing of individuals. Health expert's obligation is to supervise the influence of such patterns in the preservation and invention of supportive advanced requirements.

## **9.2. Focus on Preventive Care**

International Development Assistance significantly contribute to improving AMS's ability to tackle such issues. Poor monitoring and follow-ups between patients' contact are two areas for improvement. Furthermore, medical capacity standards and subsequent capacity assessments mainly focus on infectious diseases, while judicious use of antibiotics also requires proper control of medical practice for other common diseases, such as respiratory tract infections.

Adhering to ethical guidelines assists healthcare professionals in making decisions that prioritize patients' well-being. Healthcare ethics guidelines provide a comprehensive framework for assessing the appropriateness of healthcare interventions considering potential risks, benefits, costs, and complexity of the interventions. As with any other sectors, applying these guidelines contributes to the overall enhancement of the healthcare systems' ability to provide optimal care. International laws demand adhering to these guidelines; thus, medical professionals worldwide ought to comply with them to ensure that the well-being of the patient guides their decisions.



There is a broad global recognition of the cost-effectiveness of preventive measures; nevertheless, most healthcare resources are spent on the management of illness and promotion of disease prevention is seen differently to recipients of care. Despite being relatively straightforward and inexpensive for health care providers, in 2017, less than 10% of individuals received all of the recommended preventive services across the world. Preventive care is often lost or overlooked within the bounds of a healthcare system that generally revolves around the management of individual patients' illnesses. Prevailing priorities of healthcare interventions centre as a result around cures and the addressing of immediate health concerns, where the disease prevention has appeared to receive its highest recognition within the sector, but recent worldwide developments indicate a marked shift in this view.

### **9.3. Global Health Security**

Global health security captures the essence of what has been hoped to have been achieved in the wake of health calamities arising from a new emerging disease threat, following the severe acute respiratory syndrome (SARS) outbreak. The objectives for contributing to global health security have become inextricably linked with expectations of what a health-care system should be able to do in terms of withstanding, adapting to, and recovering from adverse events, especially those of unexpected origin. The potential benefits of building global health security are not confined to global health and in the context of pandemics may open up wider opportunities for strengthening health systems. Since 2013, the increasing prevalence and spread of the zika virus in the Americas, Africa and the Asia Pacific region have become a public health concern. Healthcare professionals can help to ensure that their health systems undertake preparedness planning that places a proportionate emphasis on responsive services as part of a wider system of surveillance, response, and control of health threats that satisfies international legal requirements. To put in place preparedness planning that meets the required standards a realistic and thorough assessment of what a country has been able to implement is required. Early preparedness planning initiatives in African countries were disappointed in their expectations of outside support and about what they achieved. Preexisting surveillance response systems were inadequate to prevent the 2014/15 Ebola outbreaks from spreading across borders, immense capacity constraints were discovered, and as a result of those emergencies, there is a recognition of a need to make considerable domestic and international investments and create better platforms to combat future outbreaks of Ebola or other high-impact emerging infectious diseases (Mensah Abrampah et al., 2018).

### **10. The Importance of Cultural Competence**

Are patient outcomes better when a physician is more sensitive to the patient's background and ethnicity? With the current emphasis on reducing health care disparities, this is the



question every health care professional should be asking themselves. A Resident Culture OSCE was developed to teach small groups of residents how to care for patients from different cultures.

Cultural awareness by healthcare providers is critical in providing optimal patient care. At a minimum, patients expect to be treated professionally, without discrimination or prejudice, regardless of factors such as race, religion, gender, or sexual orientation (Akins, 2009). There is evidence, however, that positive cultural competence (CC) is associated with better patient outcomes. From the healthcare consumer's perspective, patients often prefer a physician who is the same ethnicity, primarily because of an expectation of similar backgrounds and beliefs. On the other hand, some professionals argue that perceptions of quality in healthcare services, which are greatly influenced by expectations grounded in explainable and stereotypical differences, can lead to a preference for a provider of the majority group. Conversely, being from a minority ethnic group could place the practitioner at an automatic trust disadvantage.

Thus, a health provider's ability to deliver culturally sensitive health care can also be linked to improved patient outcomes. However, the effect of physician-sensitivity to a patient's background and ethnicity is complex and depends on the influences of the 'actor' (the doctor or patient) as well as the bystander effect of the medical provider. The culture OSCE: It is all very nice to talk about it in theory, but ultimately it makes no difference.

## **10.1. Understanding Diverse Populations**

Healthcare systems globally are at a crossroads with persistent inequalities that continue to kill millions. Many of these are preventable, from lack of access to medical care, to expensive treatments and old-age diseases. Medical professionals are uniquely placed to provide life-saving interventions to the patients who need it most. From performing cleft palate surgeries in Uganda, to making condoms freely available in Switzerland, health workers have the potential to greatly improve the lives of the patients they serve. However, across the world, healthcare provision demonstrates a fundamental disconnection between patient and provider.

Healthcare disparities are shown at the level of demographics. Minority populations in the United States continue to show worse health outcomes than the white majority. Whilst African Americans form 13% of the US population, they dramatically over-represented in poverty figures where over 24% of live below the poverty line. This is a stark contrast to white populations where only 8.6% live below the poverty line. Such economic pressures are shown to directly translate into healthcare outcome differences. There are significant disparities in accessing healthcare within the Hispanic populations of the US. Yet even when able to access the system, it is rare they do so, putting pressure on emergency services and advancing preventable illness, which in turn impacts an economic burden on wider prospect



(LeeShell Holliman Douglas, 2014). In Switzerland, potential disparities in access to sexual health resources are shown through the difference in teenage pregnancy rates.

A previously validated population genetics model is applied across Utah and Denmark. There, it is shown that when accounting for shared genetics, Danish patient and provider populations have a high correlation, thus enabling more unbiased treatment provision. For Utah, this is not observed, clearly demonstrating that improved treatment may be achieved through increased homogeneity in healthcare. Equitable treatment provision is further pursued. Efforts in Japan target Equal Life Expectancy, using a surprising strategy, as a means to provide health equality across demographic divides. Similarly, a study in Guatemala addresses the confluence of education and healthcare. Subsequently, cost-free medical systems decrease poverty, again showing clear health gains through economic freedom. Mind the gap: outlining the historical contexts of current healthcare disparity. Health care disparities are differences in outcomes or access to medical care among social groups. United States healthcare disparities along racial lines are systematic, observable differences in access to medical services and availability of healthcare resources among African Americans relative to whites. At present, African Americans have higher than average rates of hypertension, high blood pressure, diabetes, higher minimum cardiovascular health, and less accessible healthcare resources. Japanese pre-war immigration to the US established a healthcare disparity between Japanese and whites in the US. Consequently, the Japanese population in America has a history of unequal healthcare access that is maintained until now dominated by the Portuguese societies, dictated by race as a result of historical healthcare discrimination in the two countries.

## **10.2. Tailoring Healthcare Solutions**

According to a specialist registrar in psychiatry, a reminder to talk to the nurses addresses issues on the insane workload and understaffed psychiatric ward contributing to an unpleasant atmosphere at work that makes him unable to prioritize issues to talk to nurses (L Outschoorn, 2022). On the other hand, an article elaborates on how doctors can individually get involved in improving healthcare globally. However, the article seems to address the problem at a macro and general level, leaving medical professionals wondering what can be done on an individual level to improve the healthcare systems globally (Braithwaite et al., 2016). Broad recommendations include being active on the political level, the importance of scientific research and publishing, and strategies that can be pursued within the scope of a busy clinical schedule are only briefly mentioned. Moreover, there is no differentiation between countries where healthcare systems provide little to no high-quality services and where they already provide high-quality services. This comes back to the primary issue—general recommendations provided could and should be interpreted and executed differently depending on the country context. The most alarming part of the article though, is cited



evidence that a medical degree is a “golden ticket for those dreaming of improving their healthcare system”. In reality medical doctors often feel discouraged and unprepared to improve their healthcare systems, or at least don’t know where to start. A more detailed practical approach that would help medical professionals tailor strategies to their circumstances and capacities is needed. A newly developed comprehensive online database and project will be presented as tools to achieve this. These tools have been created within a student-led nonprofit organization that aims to improve the healthcare of disadvantaged communities globally by facilitating learning and collaboration between medical students and health professionals. The database is a collection of articles, reports, summaries, and video lectures on how to get involved, and extensive databases can guide tailored solutions for students and doctors who wish to develop their own projects addressing the areas of operation, advocacy, and education.

## **11. Ethical Considerations in Healthcare**

Public and global health make a specific space to present both the universal and vital preferences that are ethically desirable and the currently endorsed best practices to follow and reinforce such goals. The focus is on nursing, which already indicates the close relationship between ethics and the healthcare profession; nursing practice involves frequent and often very difficult moral decisions and a special form of responsibility, namely, the responsibility of care (O.K. Lategan, 2016). A big majority of humankind’s new ethical challenges caused by the swift technological progress and the exponential growth of biomedical knowledge fall within nursing.

Ethics has a central place in healthcare. It empowers and directs the often bold and invasive interventions healthcare professionals make in the lives of individuals. This is forcefully underlined by the increasingly stringent protection of patients (or human research subjects) worldwide through universally recognised medical codes. At the same time, ethics continues to be persistently, extensively and lamentably violated every single day. Possibly nowhere else are the professional activities possessed of such rapid rise also the repeated cause of the most harmful wrongdoing. Still, these are not only clinical, i.e. technical treatment, stumbles and abuses. In the context of moral decision-making and care for the patient, as well as the much broader issue of access to healthcare through policy, personal preference and/or the complete lack of necessary quality of healthcare, examples of ethical malpractice are legion.

### **11.1. Informed Consent**

The practice of medicine has transitioned to placing a greater emphasis on shared physician-patient decision-making. The acquisition of informed consent is a foundational component of this shared decision-making process that also serves as documentary proof that the patient has recognized and agreed to the risks and benefits of their treatment. Despite its importance,



medical audits have continued to show inadequate documentation regarding informed decision-making for decades (Krvavac et al., 2019). Furthermore, the consent form and consenting process generally do not achieve true patient comprehension. Research recognizes the importance of focusing future efforts and investigative interventions on improving information delivery to the patient to truly enhance the informed consent process. Thus, many attempts must be made to reverse these trends, and various strategies have been identified that promise to effectively improve consent form documentation, the consenting process, and patient knowledge and understanding (Patil et al., 2023). Shared decision making, a deliberative approach towards reaching mutual agreement, can be trained in structured consultations. Quantitative fidelity assessment is best performed by using model language and the OPTION scale. Addition of the model language significantly increased mean intervention fidelity regarding shared decision making in primarily audio-taped consultations of family physicians for patients with acute cough.

## **11.2. Equitable Access**

### **11.2.1. Addressing disparities in healthcare access and quality**

The COVID-19 pandemic has exacerbated disparities in healthcare access and quality, and has devastating consequences for people with language, race, and class vulnerabilities. While technology can be leveraged to deliver care to pandemic and isolation situations, this transition benefits people who have access to devices and internet, those who are comfortable using them, and those that can communicate effectively. Factors affecting telemedicine use include patient socio-demographics and health status, as well as state policies and system-level characteristics (E. Szymczak et al., 2023). Have healthcare systems demanded that telemedicine vendors offer user interfaces in multiple languages and seamless interpreter integration? If such a commitment exists, health systems have never seen the potential to prioritize language equity in telemedicine access and use. Prior research has typically focused on systems, providers, or patients to assess how innovations are used or operationalized and how differences in use may, in turn, affect outcomes. However, the impact of care delivery innovations on outcomes is determined in large part by the sociotechnical care delivery system in which they are used.

Furthermore, in many innovative systems, and particularly in those typically studied in pediatrics, the innovation is most likely embedded within a physical, socio-technical system of care. Thus, the same telemedicine service line could have different consequences on access disparities even within the same clinic, let alone across clinics of different capacities, extant telemedicine-use practices, or neighborhood patient bases. Nonetheless, the implemented provider and caregivers, as well as the patient-side factors in context, are also important; in prior research, patient race, understanding of the care context, as well as its prior care



experiences, all figured into shaping their perceptions of needing to obtain care and their expectations of the care encounter.

## 12. Conclusion

The continuing waves of reform and innovation in healthcare systems are so frequent, make so many demands and are so consuming of resources that there is barely time to lift one's head to take in the whole parade. It is also problematic to determine whether these initiatives have genuinely improved the functioning, effectiveness and output of health sectors. Two and a half terms of Australia's Labor governments since 2007 have precipitated a welter of alterations to health arrangements. So, what is the impact of all of these redesigns, tweaks, re-regulations and reconfigurations? That is perhaps the key message (Braithwaite et al., 2016). If health systems around the world seem to have been undergoing almost continuous reform over the past two decades, that is probably because they have. What impact, though, have these numerous and often costly restructures, measures and initiatives had on the quality of care and the safety of patients? That is the key question posed by the book *Healthcare Reform, Quality and Safety: Perspectives, Participants, Partnerships and Prospects in 30 Countries*. Measured on this account, the overall effect has been one of modest to negligible benefit, and sometimes harm. Broad and ambitious redesigns may well be counterproductive, switching resources from treatments and services that are effective, safe and efficient into areas in which they are not. In the Australian context, there has been noticeable political resistance to inquiries recommending systematic change or expansion.

## References:

1. Braithwaite, J., Matsuyama, Y., Mannion, R., Johnson, J., W. Bates, D., & Hughes, C. (2016). How to do better health reform: a snapshot of change and improvement initiatives in the health systems of 30 countries. [ncbi.nlm.nih.gov](https://ncbi.nlm.nih.gov)
2. L Outschoorn, A. (2022). The Introduction of a Global Medical Education Strategy. [PDF]
- Oleribe, O., Momoh, J., SC Uzochukwu, B., Mbofana, F., Adebisi, A., Barbera, T., Williams, R., & D Taylor-Robinson, S. (2019). Identifying Key Challenges Facing Healthcare Systems In Africa And Potential Solutions. [ncbi.nlm.nih.gov](https://ncbi.nlm.nih.gov)
3. Nambiar, B., Hargreaves, D. S., Morroni, C., Heys, M., Crowe, S., Pagel, C., Fitzgerald, F., Pinheiro, S. F., Devakumar, D., Mann, S., Lakhanpaul, M., Marshall, M., & Colbourn, T. (2016). Improving health-care quality in resource-poor settings. [PDF]
4. Dussault, G. & Cristina Franceschini, M. (2006). Not enough there, too many here: understanding geographical imbalances in the distribution of the health workforce. [ncbi.nlm.nih.gov](https://ncbi.nlm.nih.gov)
5. Thomas, B. (2014). College of Health and Health Care Disparities: The Effect of Social and Environmental Factors on Individual and Population Health. [ncbi.nlm.nih.gov](https://ncbi.nlm.nih.gov)



6. LeeShell Holliman Douglas, C. (2014). Building Advocacy in Healthcare: The Impact of Intergroup Dialogue on the Cultural Sensibility Outcomes of Health Profession Students Using an Individual Diversity Development Framework. [PDF]
7. Bardach, S., Perry, A., Powell, L., Kapadia, N., & Barnato, A. (2022). Hurdles of innovation—insights from a new healthcare delivery innovation program. [ncbi.nlm.nih.gov](https://ncbi.nlm.nih.gov)
8. N Mgbemena, O., Sears, I., & Levine, B. (2021). Augmenting Traditional Cardiac and Medical Care in Africa via Telemedicine: A Pilot Study. [ncbi.nlm.nih.gov](https://ncbi.nlm.nih.gov)
9. Vassallo, D. J. (2000). Telemedicine kept simple. [ncbi.nlm.nih.gov](https://ncbi.nlm.nih.gov)
10. Aghabozorgi Nafchi, M. & Aghabozorgi Nafchi, M. (2019). Challenges and Opportunities of Big Data in Healthcare Mobile Applications. [PDF]
11. Kumar, Y., Koul, A., Singla, R., & Fazal Ijaz, M. (2023). Artificial intelligence in disease diagnosis: a systematic literature review, synthesizing framework and future research agenda. [ncbi.nlm.nih.gov](https://ncbi.nlm.nih.gov)
12. Wheeler, E., Fisher, J., & Wing-Sum Li, S. (2014). Transforming and Scaling Up Health Professional Education. [PDF]
13. L Pott, S. & M Drake, D. (2016). Developing Partnerships to Expand Interprofessional Practice-Focused Educational Experiences in High-Risk Obstetric Care. [PDF]
14. (Priscilla) Schwartz, P. (2010). Disguising Trade in Development Partnerships. [PDF]
15. Cyprian Kamugumya, D. (2015). Health system's barriers hindering implementation of public-private partnership policy in the health sector at district level: A case study of partnership for improved reproductive and child health services provision in Bagamoyo district, Tanzania. [PDF]
16. Kaba Alhassan, R., Nketiah-Amponsah, E., & Kojo Arhinful, D. (2016). Design and implementation of community engagement interventions towards healthcare quality improvement in Ghana: a methodological approach. [ncbi.nlm.nih.gov](https://ncbi.nlm.nih.gov)
17. Stoddart, R., Simpson, P., & Haire, B. (2020). Medical advocacy in the face of Australian immigration practices: A study of medical professionals defending the health rights of detained refugees and asylum seekers. [ncbi.nlm.nih.gov](https://ncbi.nlm.nih.gov)
18. Feinglass, E., Gomes, N., & Maru, V. (2016). Transforming Policy into Justice: The Role of Health Advocates in Mozambique. [ncbi.nlm.nih.gov](https://ncbi.nlm.nih.gov)
19. Boucar, M., Hill, K., Coly, A., Djibrina, S., Saley, Z., Sangare, K., Kamgang, E., & Hildebeitel, S. (2014). Improving postpartum care for mothers and newborns in Niger and Mali: a case study of an integrated maternal and newborn improvement programme. [ncbi.nlm.nih.gov](https://ncbi.nlm.nih.gov)
20. A Bednarczyk, R., A Hester, K., M Dixit, S., S Ellis, A., Escoffery, C., Kilembe, W., Micek, K., M Sakas, Z., Sarr, M., & C Freeman, M. (2022). Exemplars in vaccine delivery protocol: a case-study-based identification and evaluation of critical factors in



- achieving high and sustained childhood immunisation coverage in selected low-income and lower-middle-income countries. [ncbi.nlm.nih.gov](https://ncbi.nlm.nih.gov)
21. McPake, B. & Koblinsky, M. (2009). Improving maternal survival in South Asia-what can we learn from case studies?. [PDF]
  22. Haroon Mahomed, O. & Asmall, S. (2015). Development and implementation of an integrated chronic disease model in South Africa: lessons in the management of change through improving the quality of clinical practice. [ncbi.nlm.nih.gov](https://ncbi.nlm.nih.gov)
  23. Schiavone, F. & Ferretti, M. (2021). The FutureS of healthcare. [ncbi.nlm.nih.gov](https://ncbi.nlm.nih.gov)
  24. Mensah Abrampah, N., Babar Syed, S., R Hirschhorn, L., Nambiar, B., Iqbal, U., Garcia-Elorrio, E., Kumar Chattu, V., Devnani, M., & Kelley, E. (2018). Quality improvement and emerging global health priorities. [ncbi.nlm.nih.gov](https://ncbi.nlm.nih.gov)
  25. Akins, R. (2009). Teaching Cultural Sensitivity to Pediatric Residents. [PDF]
  26. O.K. Lategan, L. (2016). The imbedded role of ethics in healthcare: a contribution from translational research. [PDF]
  27. Krvavac, A., H Patel, P., Kamel, G., Hu, Z., & Patel, N. (2019). Improving Consent Documentation in the Medical Intensive Care Unit. [ncbi.nlm.nih.gov](https://ncbi.nlm.nih.gov)
  28. Patil, A., Chawathey, S., & Malim, A. (2023). Adequacy of Informed Consent in Elective Surgical Procedures: A Study in a Navi Mumbai Tertiary Care Centre. [ncbi.nlm.nih.gov](https://ncbi.nlm.nih.gov)
  29. E. Szymczak, J., G. Fiks, A., Craig, S., D. Mendez, D., & N. Ray, K. (2023). Access to What for Whom? How Care Delivery Innovations Impact Health Equity. [ncbi.nlm.nih.gov](https://ncbi.nlm.nih.gov)