

# **Strengthening Primary Care Through Family Medicine Around the World:**

# **Collaborating Toward Promising Practices**

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BACKGROUND AND OBJECTIVES: There is a limited evidentiary base on the development of family medicine in different contexts and countries. The lack of evidence impedes our ability to compare and characterize family medicine models and identify areas of success that have led to the effective provision of care. This paper offers a comparative compilation and analysis of the development of family medicine training programs in seven countries: Brazil, Canada, Ethiopia, Haiti, Indonesia, Kenya, and Mali.

METHODS: Using qualitative case studies, this paper examines the process of developing family medicine programs, including enabling strategies and barriers, and shared lessons. An appreciative inquiry framework and complex adaptive systems thinking inform our qualitative study.

RESULTS: Committed partnerships, the contribution of champions, health policy, and adaptability were identified as key enablers in all seven case studies. The case studies further reveal that some enablers were more salient in certain contexts as compared to others, and that it is the interaction of enablers that is crucial for understanding how and why initiatives succeeded. The barriers that emerged across the seven case studies include: (1) resistance from other medical specialties, (2) lack of resources and capabilities, (3) difficulty in sustaining support of champions, and (4) challenges in brokering effective partnerships.

**CONCLUSIONS:** A key insight from this study is that the implementation of family medicine is nonlinear, dynamic, and complex. The findings of this comparative analysis offer insights and strategies that can inform the design and development of family medicine programs elsewhere.

(Fam Med. 2018;50(6):426-36.) doi: 10.22454/FamMed.2018.210965 Published Online First March 8, 2018

etween 1995 and 2015, the number of countries reported to have family medicine training programs grew from 56 to 132.1-2 The growth and strengthening of family medicine globally is due in part to evidence linking robust

family medicine to better outcomes, lower costs, and improved health equity.3 Family medicine, as a source of comprehensive, first-contact, person-centered, and community-based generalist medical care also aligns with the call of a number of key recent global health publications including the World Health Organization (WHO) reports: Primary Health Care: Now More Than Ever and Global Strategy on Human Resources for Health: Workforce 2030.<sup>4,5</sup> The Sustainable Development Goals (SDGs) and the push for Universal Health Coverage (UHC) also offer synergies for the development of family medicine. Despite clear progress, the development of family medicine in low, middle, and many high-income countries continues to face a wide range of challenges.6 One of the unique challenges faced

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by champions of family medicine in emerging contexts is the need to convey the conceptual foundations and clinical methods unique to family medicine as a specialty devoted to comprehensive health care for people of all ages,<sup>7</sup> highlighting the contribution of family medicine and generalism to health systems as distinct, foundational, and complementary rather than competing with specialization.

While global efforts to develop family medicine have been gaining momentum over the past decade, few comparative analyses of family medicine across different countries have been published in the academic literature. This scholarly gap prompted the development of the collaborative research project, Strengthening Primary Care Through Family Medicine Around the World, to examine and compare the process of developing family medicine programs in Canada, Brazil, Ethiopia, Haiti, Indonesia, Kenya, and Mali. This paper presents the results of this project and offers potential strategies that may facilitate the growth of family medicine globally.

# Conceptual Framing

Both appreciative inquiry and complex adaptive thinking systems perspectives informed our study. Appreciative inquiry is a framework for analysis, decision-making, and the creation of strategic change within organizations. Specifically, it is a framework for examining organizational and system practices from the standpoint of what works, by examining past and present strengths and potentials.8,9 Complexity theory proposes that change needs to be understood in terms of coevolution with all other related systems, rather than as adaptation to a separate and distinct environment. Complex adaptive systems are dynamic systems able to adapt in and evolve with a changing environment. Given the heterogeneous contexts in which the seven family medicine initiatives were implemented, a theoretical lens premised on tenets of nonlinearity<sup>10</sup>

was particularly relevant for this project.

#### Methods

A case study research methodology<sup>11</sup> was used for gathering data on the development of family medicine and primary care in selected countries. This method is ideal for capturing a process or phenomenon, and for understanding how family medicine implementation works and why it works in a particular way.<sup>11</sup> Study coinvestigators in Canada, Brazil, Ethiopia, Haiti, Indonesia, Kenya, and Mali were selected through a convenience sample. They included members of the Global Health Committee of the College of Family Physicians of Canada and international collaborators of several academic Canadian Family Medicine Departments. International coinvestigators were known to have been active participants in the implementation of family medicine in their settings. The leads of the case studies were given broad guidelines, but not strict directives regarding the development, length, or content of their case studies. This approach sought to capture the pivotal moments and key elements in the development of the discipline. Authors were encouraged to include information about enablers and challenges, including events, individuals, and circumstances. Two research team members separately analyzed the enablers and challenges presented in each case study and identified key emerging themes. The analyses were compared in order to reach consensus and findings were disseminated to the entire project team for feedback and reflection. This study was reviewed and approved by the Health Sciences Research Ethics Board of the University of Toronto (protocol #30417).

# Results

To understand the strategies and processes underpinning family medicine implementation, we analyzed case studies to identify enablers and barriers. We created a typology of the enablers, as outlined in Table 1, dividing them into predisposing, facilitating, and reinforcing enablers. Predisposing enablers (also called factors) are elements that the initiative inherited prior to the establishment of family medicine and were helpful in gaining success (eg, an expressed need for primary care or policy direction on the part of the government, or the school). Facilitating enablers are elements that the initiative and its partners created to advance family medicine as a practice (eg, identifying collaborative partners, resources, etc.). Reinforcing enablers are elements that supported the new initiative once established (eg, relationships, policies and/or resources that made the innovation sustainable).

### Enablers

In considering the complex interplay of factors and the widely diverse trajectory of family medicine development in the seven settings studied, we note four meta-level enablers (Figure 1) common to all seven case studies, namely champions, committed partnerships, health policy, and an adaptability in defining the role of family medicine in a given setting.

Champions: Broker Critical Ties All seven case studies point to the key roles played by individual champions in establishing family medicine. Champions, while not always family physicians themselves, acted as family medicine catalysts and facilitators. For example, in Mali, the early commitment of champions from Bamako and Sherbrooke drew attention to the discipline and created a sense of urgency to establish family medicine in a resource-constrained setting. Similarly, after meeting in Bamako, the deans of medicine from the Universities of Sherbrooke and Mali assumed the role of champions themselves, mutually acknowledging the importance of training comprehensive generalist physicians to respond to Mali's health needs. In Ethiopia, a series of champions from Addis Ababa University, supported by others from the University of

Table 1: Predisposing, Facilitating, and Reinforcing Enablers

Predisposing enablers are those elements that the initiative inherited prior to the establishment of family medicine and were helpful in gaining success (eg, an expressed need for primary care or policy direction on the part of the government, the school, or others). Facilitating enablers are elements that the project and its partners created to advance family medicine as a practice (eg, a venue to build new relationships, collaborative partners, resources, etc). Reinforcing enablers are elements that support the new state of affairs once the initiative was established (eg, relationships, policies, and/or resources that made the innovation sustainable).

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Country Pr	Predisposing Enablers	Facilitating Enablers	Reinforcing Enablers
Country Property Prop	Predisposing Enablers  Geveral local and individual initiatives implemented to individual initiatives in plemented in plemented in proclaiming universal in plemented in peculiary in pecul	,	National Guidelines of Medical Education (DCN) developed by the Ministry of Education focus in 2001 the formation of generalists and is ratified in 2014 that Brazilian universities are to train medical students to become generalists as their first goal.  2014 DCN increases amount of time devoted to primary health care in medical internship by 30%.  Ministry of Health and Education in 2013 implements More Doctors Law which stipulates that until 2018 every graduate is required to do at least one year in a family residency program.  Strengthened role of Brazilian Society of Family and Community Medicine (SBMFC) who was fundamental in the recognition of the specialty in the Federal Council of Medicine in 2004 and in qualifying the practice and the residency programs promoting bi-annual congresses.

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Table 1. continued

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Country	Predisposing Enablers	Facilitating Enablers	Reinforcing Enablers	
Ethiopia	Health Sector Development Program (HSDP) launched 1996/7.  Health Extension Workers Program launched by Ministry of Health in 2003.  Human resources in health crisis.  University medical training programs not in alignment with national priorities.	Strong partnership with University of Toronto.  Ethiopian fellows attended family medicine training programs in Canada and the United States. Persuasion of Ethiopian specialists of value of family medicine.  Situational analysis of Ethiopian GPs by Jane Philpott (Canadian MP). Capacity building of Ethiopian family physicians by Canadian family physicians. 2009 Ethiopian Medical Association (EMA) hosts workshop on family medicine with support from University of Toronto.	Rotation of residents led to higher recruitment in family medicine.  Significant interest in Ethiopia's family medicine programs from the United States, Canada and Europe. This interest has placed pressure on national government in Ethiopia to advance family medicine.  MOH creates two more family medicine programs in two universities.  MOH requests development of "Road Map" for family medicine.  MOH commissions curriculum development for family medicine.	
Indonesia	Family Physician Study Group (KSDK) created in 1981.  KSDK becomes member of WONCA in 1984.  Creation of College of Indonesian Family Physicians (KDKI) in 2003.	McMaster University, and Faculty of Medicine of Syiah Kuala University signed a MOU to develop family medicine in 2014.  Family medicine offered as a block in undergraduate curriculum beginning in 2009.  Creation family medicine department in Aceh in 2008/2009.  Strong partnerships with primary health centres.	Family medicine department created in Aceh and seen as model by national government.  Application for accreditation.  Implementation of BPJS advanced family medicine in Indonesia in 2014. UHC ensures patients receive free treatment so long as they are enrolled in the scheme. Regulations permit family physicians to simultaneously work in public and private clinics.  A 2014 national policy on referrals implemented, which stipulates that patients are to seek care at a health center prior to visiting a hospital.  Implementation of law number 20 creates PHC doctor as new strata of Indonesian education and will be recognized in national health security system.	

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Country	Predisposing Enablers	Facilitating Enablers	Reinforcing Enablers		
Haiti	Call for rebuilding medical education in Haiti after the January 2010 earthquake.  ZL partnered with the MOH to strengthen hospital services and care at hospital facility seven years prior to the launch of the residency program.  The program directors for the new program were graduates from an existing successful family medicine residency program, which meant the initiative did not have to start from scratch.	Ability of ZL/PIH to mobilize human and financial resources.  Visiting faculty from the national medical school had a unique opportunity to work with family doctors and understand their scope of work, their competences as well as the role family doctors can play in the health system.  Trustful and long experience partnership between Ministere de la SantePublique et de la Population (MSPP) and ZL/PIH.	Strong relationship with both thenational medical school and the MSPP and the recognition of the quality of the program.  Resourced secured by ZL to maintain the quality and performance of the family medicine program  Program recognized as one of the best family medicine residency programs in the country.  Increasing demand for family medicine physicians by hospital managers.		
Kenya	GoK realized focus on specialist care was not meeting need for access to primary care in rural areas.  Faith-based mission hospitals run largely by expatriates advocated for generalist physicians.  Shift from episodic care to person/community-oriented care that emphasized primary care  International discourse on primary health care: Launch of WHO 2008 Report Alma Ata: Now More than Ever	Team work that involved stakeholders that were Kenyan and non-Kenyan but shared the common goal of developing FM in Kenya.  Moi University management accepting new degree in FM in Kenya.  Development of curriculum by individuals who were not employees of Moi University  Human and financial resources donated by non-Kenyan organizations to establish family medicine department.	Recognition of family medicine as a specialty by the medical board  Registration of the Kenya Association of FPs even before there were local graduates of the program Support by the MoH and other stakeholders in writing the Family Medicine Policy  PRIMAFAMED Africa Network input in facilities interactions, collaboration and meetings of the department in SSA  Moi University and other universities employing family physicians from among the graduates of the Kenyan program  MoH, PMF and INFAMED scholarship to students in family medicine		

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Country	Predisposing Enablers	Facilitating Enablers	Reinforcing Enablers
Mali	Concept and practice of community medicine in place (1989) prior to family medicine  International health clinical training for Family medicine resident in Community health centers in Mali (starting in 1997).  Strong friendship between Malians and Canadians, and inspired discussions around community medicine and family medicine and family medicine in Mali combined with international health training for family medicine residents in community health centers where Canadian family medicine practitioners intersected with Malian community medicine practitioners.	Bottom-up approach with a strong community engagement.  Canadian support to develop and support the teaching mission of Banconi's Community Health Center, precluding the creation of five academic CHCs.  The DECLIC project was granted in 2010 and financed by CIDA/DFATD/GAC. Project was funded generously and involved development of family medicine department at University of Bamako and establishment of five academic health centres.  Program formalized community and family medicine.	Influential champions played a key role.  Recognition by the deans of University of Bamako that family medicine could offer many benefits to Mali.  Bottom-up approach in early phases of initiative and top-down approach in the late stages of the initiative.
Canada (Ontario)	Province size required GPs to provide medical care before family medicine was an entity. General practitioners were the way people were getting care. Because of the size of the territory, it was GPs practicing in remote rural areas; it didn't make sense for specialists to do this.  Public education and awareness around importance of having access to family physician.	Significant negotiations between College of Family Physicians of Canada and the medical students to make family medicine a desirable path to pursue.  Creation of continuing medical education for family physicians.  Role of champions in advocating for family medicine (eg, Dr Ian McWhinney).  Ontario government policy mandating all Ontarians have a family physician.	Canada (Ontario) seen as example worldwide for primary care model. Spotlight on Ontario model highlighted usefulness of the program and helped to sustain the program.  Separate organizations for specialists and family physicians also aided implementation of family medicine. Each body of doctors belonged to their own respective organization, which enabled smoother relationships and negotiations.

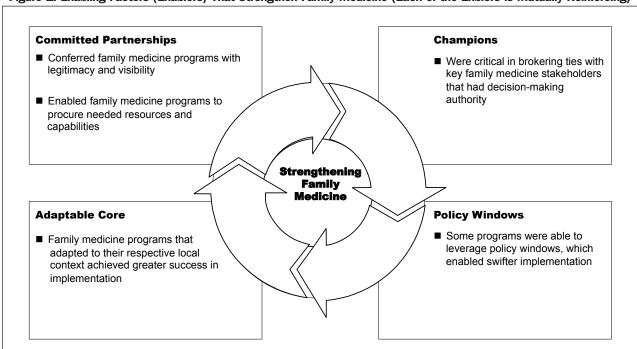


Figure 1: Enabling Factors (Enablers) That Strengthen Family Medicine (Each of the Enblers is Mutually Reinforcing)

Toronto and the University of Wisconsin played complementary roles in enabling the establishment of a family medicine training program at Addis Ababa University. Champions in all seven settings provided momentum, global direction, and leadership that helped to shape the way family medicine was perceived and implemented.

#### Committed Partnerships:

Confer Influence and Legitimacy All seven case studies emphasized how partnerships and alliances with influential organizations advanced implementation of family medicine. Influential partners included institutions in high-income countries with the ability to mobilize financial resources, provide expertise and capacity building support, and bolster programs' legitimacy. Partnerships with local institutions including ministries of health and local medical schools, enabled the programs to secure political support and in some cases, financial resources. In addition to extensive in-kind contribution by faculty members, family medicine programs in Haiti and Mali benefited from funding from external partners, such as Partners in Health, and Global Affairs Canada which increased the initiatives' visibility and helped garner support from ministries of health in the initial phase of implementation.

Partnerships also contributed expertise and capacity-building support. Organizations such as Partners in Health, PRIMAFAMED, and the University of Toronto helped develop curriculum and educational resources, train faculty, and provide an academic foundation to family medicine programs in Haiti, Kenya, and Ethiopia, respectively.

# Political Will and Policy Windows: Catalyze Family Medicine Initiatives

Political will and opportune policy windows enabled the implementation of family medicine in all settings. Successfully implemented programs capitalized on opportunities presented by policy windows. Policy windows tended to occur suddenly, by chance, or due to an external crisis, and are difficult to predict.

In Haiti, the 2010 earthquake in Port-au-Prince led to health care reforms including government calls for the decentralization of medical and nurse training and the increased retention of medical professionals in the public health sector. In order to align efforts with the strategic priorities of the Ministry of Health and the needs of the population, Zanmi Lasante and its sister organization Partners in Health (based in the United States), established a residency program in family medicine at the Hospital Saint Nicolas in the town of Saint Marc.

After the tsunami and conflict in 2004, the Government of Aceh (Indonesia) allocated significant resources to the health sector. The presence and role-modelling of a Canadian family physician working with the Canadian Red Cross after the tsunami drew attention to the comprehensive scope of family medicine, and building on the emerging interest in the discipline at the government level, spurred efforts to establish family medicine training at the faculty of medicine at Syiah Kuala University in Aceh.

In the above-mentioned cases, often unexpected and dramatic events created momentum for changes on the ground, spurred by champions and typically before formal public policy decisions to establish family medicine training. The case studies further suggest that while the family medicine initiatives were started prior to the formulation of formal policies, they were able to effectively leverage policy windows of opportunities when they arose to acquire formal support. In contrast, in Brazil, significant political and policy changes preceded and precipitated the implementation of family medicine. These included the overhauling of the health system, the creation of a tax-financed national health system, the Unified Health System (Sistema Único de Saúde, SUS), and ultimately the establishment of the Family Health Strategy which anchored the reorganization and strengthening primary care in Brazil.13

# Adaptable Core: Fosters Effective Implementation

In contrast to the more catalytic and structural enablers described above, a fourth and more processfocused enabler emerged across all seven country cases, namely the ability of early family medicine training programs to remain flexible and to adapt to their local context. The case studies highlight that while the discipline of family medicine has core foundational principles, there is no unique or rigid and detailed blueprint for its development and role. Indeed, while the core of family medicine involves providing person-centered and community-based acute, chronic, palliative, and preventive care across life stages, through established relationships between patients and individual clinicians or teams, the precise scope of services provided by family physicians varies and depends on the health needs of the population and the availability and scopes of other health professions.

In Haiti for example, the curriculum was specifically designed to address the country's disease burden, such as maternal and child health, infectious diseases, and community health along with noncommunicable diseases. In Kenya, the greatest need for family medicine was in remote rural areas, and thus the family medicine training program offered at Moi University was located in a rural area. In Ethiopia, the third-year curriculum was adapted to include more surgical and obstetrics training in recognition of the need for high levels of competency in these areas for family physicians preparing to be a resource to remote populations. In other cases however, family medicine initiatives focused not only on meeting the needs of rural and remote communities, but also on the health needs of communities in urban centers. The success of early family medicine programs in our sample depended on the ability of leaders to shape and adapt the curriculum to the needs of the population rather than to conform to rigid standards developed in high-income settings.

# **Barriers**

The barriers identified through the case studies fell into two essential groups: those representing a gap or deficit in a previously identified enabler (champions, partnerships and resources) and others (See Table 2). Barriers were noted at three levels: (1) the family medicine program itself; (2) the health care ecosystem of which the program is a part; and (3) governmental laws, policies and actions.

## Failing Support of Champions

As expected, losing the support of a champion was identified as a barrier in a number of case studies. In Kenya and Haiti, support for the discipline waned after the departure of key champions. This finding highlights the importance of cultivating both individual and organizational-level champions to minimize the impact of a single departure.<sup>15</sup>

# Evolving Partnership Commitment

Challenges were also identified in the ability of family medicine programs and individual champions to broker deeper institutional northsouth partnerships. In the case of Sherbrooke University for example, despite the staunch dedication of individual champions and of the Department of Family Medicine, the Faculty of Medicine was initially reluctant to allocate resources to support family medicine in Banconi, Mali. This was due in part to a misconception of the program as humanitarian aid and therefore clearly outside the core mandate of the Faculty. Ultimately, champions successfully demonstrated the mutual value of international academic collaboration to strengthen family medicine programs in line with a paradigm of capacity-building and social accountability.

Lack of Resources and Expertise
Accessing adequate financial and human resources was a common barrier amongst all seven programs. In settings where family medicine was just emerging, a lack of family physicians in sufficient numbers and with the expertise to deliver training and care according to robust family medicine principles was common.

In addition, case studies revealed that securing reliable financial support from universities and ministries of health for family medicine trainees and faculty was commonly challenging, affecting the recruitment and retention of faculty and trainees. While programs in Rio (Brazil), Haiti, and Ontario (Canada) were able to offer financial incentives to family medicine trainees, which facilitated recruitment, such incentives were not available in other countries such as Indonesia and Kenya, adding to the challenge of recruiting suitable candidates. In Aceh (Indonesia), despite a decision to begin family medicine training, the residency program is currently on hold due to a lack of government funding.

**Table 2: Barriers** 

Barriers	Level at Which Barriers Emerged	Countries
Resistance	<ul><li>Family medicine initiative</li><li>Health care ecosystem</li><li>Government</li></ul>	Brazil, Haiti, Indonesia, Kenya, Mali, Ethiopia, Ontario
Forming partnerships	<ul><li>Health care ecosystem</li><li>Government</li></ul>	Indonesia, Mali, Ontario
Sustaining support of champions	Health care ecosystem (ie, departments of medicine)	Haiti, Kenya, Mali, Ethiopia
Lack of resources and capabilities	<ul><li>Family medicine initiative</li><li>Government</li></ul>	Brazil, Haiti, Indonesia, Kenya, Mali, Ethiopia, Ontario

Financial sustainability of programs was identified as a challenge in four of seven case studies. In Haiti, Zanmi Lasante and Partners in Health were able to mobilize funds for a family medicine training pilot project, but have yet to secure longterm funding for the program. Similarly, the initiative in Mali, while successful in securing a grant from Global Affairs Canada, continues to grapple with the "complexities of navigating the bureaucratic systems of government funding agencies." The dependence on grants to fund family medicine training programs posed challenges for several programs and threatened long-term planning and implementation.

#### Resistance

All seven cases highlighted how both family medicine champions as well as faculty and family medicine graduates met resistance from other medical specialties. The lack of recognition and understanding of family medicine and the perception of family medicine as an inferior specialty made it difficult for programs to recruit trainees. In some settings, perceived competition for a limited pool of private health care dollars from the population fueled resistance to a new cadre of physicians. Resistance was also encountered within the community and among patients. In Aceh, despite the government's stipulation that initial medical consultation should occur with a family physician at a health center, a lack of trust on the part of patients frequently prompts them bypass the health center and seek

care from specialists at a hospital. These findings align with the widely held assumption that insofar as primary care should be made available to the poor, it is assumed to be "poor medicine".14

#### **Discussion**

Our research findings reveal that as a new and, at times, poorly understood discipline, the establishment of family medicine in low and middle-income settings requires both macro enablers, notably supportive policy and resources, as well as micro enablers in the form of champions and experts. We found that four broad enablers were common to all seven cases, and that the interaction of enablers in each particular context was crucial to understand how and why initiatives succeeded. This is in keeping with adaptive systems theory wherein linear causality is often neither readily apparent, nor sought, but the elements that interact and the feedback loops that bind them are examinable.

The role of local champions—individuals in a position of leadership, frequently outside family medicine and in a position to leverage their formal and informal authority to promote family medicine—was key in the initial stages of development. The role of international collaborators was also highlighted as being important, typically in the context of institutional "committed partnerships". The key role of relationships anchored in a commitment to the local community is highly congruent with the nature of family medicine as a discipline rooted and defined by

relationships and shaped by the local community and population. The importance of committed partnership in this study also highlights the need for time in solidifying relationships and allowing for the development of the new discipline of family medicine. The underlying principle of committed partnerships, cultivated over the long-term, is often at odds with donor preferences and frameworks, which tend to favor easily measurable health interventions that can swiftly demonstrate results. Taken together, the roles of champions and of committed partnerships depict the early development of family medicine in the settings considered in this study as emerging first from local leadership and vision and being supported, to varying degrees, by the experience and resources of the experienced partners, with the exception of Brazil. In Brazil, bold and innovative steps were taken by Brazilian family medicine visionaries to establish Family Health Teams.<sup>13</sup> In contrast to other countries, however, the family health policy in Brazil was more clearly focused on the poor segment of the population.

Our findings challenge the idea of a linear development of family medicine and the findings of Talbot et al<sup>16</sup> who propose that the emergence of family medicine typically starts with a clear policy decision to support its development.<sup>16</sup> Initial conditions, while important, do not necessarily determine the direction or likelihood of success. However, when viewed through the lens of complexity, it is clear that the direction is not random. The case studies included in

this study suggest that events and decisions closer to the ground, such as the presence of a Canadian physician in responding to the tsunami in Aceh, the development of a committed individual relationship in Mali, the catalytic involvement of a leading non-governmental organization in Haiti, and the insights of a group of general practitioners in Kenya, often play an important role prior to the formulation of policy. These very early circumstances seem to serve to prepare the setting for a more deliberate and formal decision to establish family medicine.

The cases further highlight that presenting family medicine as the solution to a problem or crisis is one way of ensuring that the initiatives had an impact. The cases suggest that policy-makers are particularly convinced where a piloted initiative demonstrates potential as a solution. In Ethiopia, policy-makers were cognizant that postgraduate medical education was not optimally aligned with the country's policies on promoting primary care. The family medicine program gradually helped to fill this policy-implementation gap. The family medicine program in Aceh, in the aftermath of the devastating 2004 tsunami, became part of a solution to the Government of Indonesia's need to provide widescale comprehensive health care in the country. The Government of Indonesia regarded the family medicine program in Aceh as a model for broader implementation in the country. Beyond this opportunistic phase, the growth of family medicine requires financial commitment from governments which may require redirecting scant resources away from entrenched funding models, a shift that can be difficult to make.

The comparative case studies offer several insight and lessons for those trying to design and implement family medicine programs. While more thorough systematic research is required, this study suggests that the following key strategies, if adopted deliberately and applied with flexibility, might facilitate the growth of family medicine globally:

- Identify and nurture champions among leaders in a variety of fields and disciplines, invest in both personal and institutional long-term relationships across high and low, or middle-income settings.
- Engage a wide array of stakeholders early, and persist even if their interest seems initially lukewarm.
- Be ready to ramp up efforts should a policy window arise.
- Be astute at recognizing and acting upon policy windows.
- Acknowledge and address capacity building.
- Be prepared to adapt, change, and rethink elements of the program if they do not meet the need of the population.
- Do not assume there is only one clear next step.
- Make sure you spend time with peers contending with similar situations as it is likely to offer validation and support, to spawn new solutions, and to generate momentum as they often share similar challenges.

# **Conclusions**

There is much to learn about the factors that advance or hinder the implementation of family medicine initiatives globally. In discussing four key enablers (champions, committed partnerships, policy windows, and adaptable core), this study demonstrates that it is the synergistic interaction between the enablers that ultimately shapes and influences how family medicine programs are established. Future research could examine in greater depth each of the four enablers and their interaction in common contexts with regard to culture and resources.

The push for universal health coverage and the Sustainable Development Goals affirm that more deliberate, robust, and sustained efforts are needed to establish and strengthen family medicine globally.

Family medicine as a constitutive component of primary health care comprises a core aspect of universal health coverage. The findings from these case studies suggest that perhaps the creation of new funding mechanisms and partnerships to scale up family medicine globally are needed. While current global health frameworks such as the Global Fund have favored the implementation of vertical interventions, we believe the principles of health equity and access are most readily achieved through global health architecture that can bolster access to integrative primary care including family medicine. The underlying attributes of relationship-based family medicinecomprehensiveness, adaptability, and attention to both local and patient needs-are key to achieving and advancing global health priorities.

**ACKNOWLEDGMENTS:** Financial support was provided by the International Development Research Centre (File No. 107467-00020799-028).

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