The evaluations of integrated community case management (iCCM) of childhood illness in Ethiopia, Malawi, and Burkina Faso published in this issue provide important new information to guide program design and implementation. Recognizing that in most countries with a high burden of child mortality, access to health services is limited for many families and their children, the World Health Organization (WHO) and the United Nations Children’s Fund (UNICEF) identified iCCM as an effective evidence-based strategy to increase coverage of lifesaving interventions and reduce preventable child deaths.1 Few program evaluations of iCCM at scale exist.2 The reports therefore are unique and valuable. However, none of the three reports demonstrated the desired iCCM objectives of increasing care seeking for childhood illness and improved coverage of effective treatment interventions at the population level.

Although the results of these three studies are humbling, they provide a new impetus to analyze prerequisites for successful iCCM implementation at national scale. By early 2015, 47 of 75 countries accounting for the highest burden of maternal and child mortality had adopted a national policy allowing community health workers to treat childhood conditions.3 In the transition from the Millennium Development Goals to the Sustainable Development Goals, countries are revisiting their progress and making strategic choices about how to increase access to essential child health services. For countries with a high burden of child mortality, new funding opportunities are available including the Global Fund to Fight AIDS, Tuberculosis and Malaria (GFATM) and the Global Financing Facility. It is therefore a public health imperative to generate and synthetize evidence of best practices for implementation of community health worker (CHW) programs.

As partners who assisted governments in the introduction, scale-up, and periodic review of iCCM implementation in Burkina Faso, Ethiopia, and Malawi, we have summarized in Table 1 key characteristics of policy and implementation in each country. Using a set of well-established benchmarks for iCCM implementation,4 we present four key messages to consider for future action.

First, when introducing iCCM, governments should lead and support implementation by adopting a national policy and ensure that iCCM is well integrated and costed within the national health sector plan. Community-based health interventions are not a panacea for a weak health system, nor can CHWs function in isolation from the health system. In Burkina Faso, government concerns about feasibility and sustainability of iCCM scale-up prevented bold decisions on the selection of CHWs. As a result, pilot implementation involved community health volunteers who were often elderly and illiterate and did not receive any predictable remuneration for providing health services. Their motivation remained low, and there was little evidence of their contribution to increased care seeking. In contrast, iCCM was well implemented in the Health Extension Worker Program in Ethiopia and in the 2006–2010 national health sector program under the Essential Health Care package in Malawi. In both countries, iCCM was introduced with clear visibility and commitment at all levels of the health system, and evidence was generated about the potential of CHWs to treat children in the community effectively.

Second, scaling up of iCCM requires investment in capabilities and system supports at all levels of the health system. iCCM training in Ethiopia and in Malawi followed a set of quality criteria, with emphasis on observed clinical practice and follow-up after training. In Burkina Faso, a rapid model of cascade training with limited attention to clinical practice was deployed. WHO recommends that, for iCCM training, quality criteria should include a low trainer-to-participant ratio of one to four, an overall duration of iCCM training of at least 5 days, clinical practice for at least 40% of the training, and a first follow-up visit for trained CHWs within 6 weeks of course completion.5–7 In Ethiopia and Malawi, independent surveys demonstrated that trained CHWs were able to provide quality of care that was similar to that of health professionals in outpatient facilities, whereas in Burkina Faso, the quality of care provided to sick children by the CHWs was inadequate. In addition to caregiving capabilities, it is essential to strengthen management skills of health facility providers and district and regional managers to ensure that all necessary health systems supports are in place for community case management, including uninterrupted availability of commodities and regular supportive supervision with case observation.

Third, monitoring and evaluation should be an integral part of iCCM scale-up. In Ethiopia and Malawi, maximum benefit was derived from the presence of an independent evaluation team. Quality of care surveys were conducted in both countries at an early stage of program rollout, and these provided valuable information.8,9 Indicators for assessing implementation strength, as reported by Hazel and others10 in their accompanying commentary, were adopted as part of the iCCM monitoring system in all three countries, but concerns remained about the completeness and reliability of the data. An independent assessment of implementation strength was undertaken in Burkina Faso,11 Ethiopia,8 and Malawi,12,13 providing a new perspective on effective methodologies for quality improvement. Annual stakeholder meetings convened by the independent evaluation team fostered a culture of peer
learning and demonstrated the importance of partnership in reviewing and analyzing data and in mobilizing action.

Our fourth message relates to the importance of community mobilization and demand generation. Insufficient awareness of communities about the availability of iCCM services was an important finding of the household survey and qualitative interviews in Ethiopia. In Malawi, the first annual review meetings convened by the independent evaluation team highlighted the importance of community engagement in building and managing a village health clinic. The issue of demand also raises the question of who was targeted. In Malawi, the comprehensive iCCM approach, initially implemented in two health districts, is now being scaled up in remote areas in 22 health districts, and training will be based on quality criteria with due attention to clinical practice. In Ethiopia and Malawi, mentorship in health facilities and peer learning are being implemented as part of follow-up. In Malawi, the use of m-health technology has been introduced to ensure uninterrupted provision of commodities and strengthened clinical care management by CHWs.

As countries prioritize iCCM, continued investment in coordination, monitoring, evaluation, and implementation research will be of great value. We need to better understand who are the families and children who access health care the least and how to reach them effectively. We also need to better understand how to build the confidence of CHWs and sustain their commitment as part of national health sector plans. The comprehensive iCCM approach, initially implemented in two health districts, is now being scaled up in remote areas in 22 health districts, and training will be based on quality criteria with due attention to clinical practice. In Ethiopia and Malawi, mentorship in health facilities and peer learning are being implemented as part of follow-up. In Malawi, the use of m-health technology has been introduced to ensure uninterrupted provision of commodities and strengthened clinical care management by CHWs.

| CHW Characteristics | Burkina Faso | Ethiopia | Malawi |
|---------------------|-------------|----------|--------|
| Policy              | Pilot for proof of concept in two districts | Part of national Health Extension Program | Part of Essential Health Care package |
| CHWs                | Volunteers with low literacy, no fixed remuneration | Government cadre, literate, fixed remuneration | Government cadre, literate, fixed remuneration |
| Geographical Scope  | Rural communities in two districts: two trained workers per community | Rural communities: two trained workers per 5,000 population | Hard to reach areas: one trained worker per 1,000 population |
| Training            | Rapid 3-day cascade training with limited attention to quality criteria | Incremental scale-up of 5-day training with attention to quality criteria | Incremental scale-up of 5-day training with attention to quality criteria |
| Medicines           | Provision and supply against costs | Regular but infrequent clinical observation | Irregular and mostly without clinical observation |
| Supervision         | Irregular and mostly without clinical observation | Part of routine activities of the female health army | Community leaders engaged in creation and management of village health clinics |
| Demand creation     | No specific approach | | |
| Linkage with Health Facilities | Provider initiated | Weekly contacts | Provider initiated |
| Monitoring          | Tracking of program rollout | Tracking of program rollout | Tracking of program rollout |
| Review              | Annual stakeholders meeting | Annual stakeholders meeting | Annual stakeholders meeting |

**TABLE 1**

Key characteristics of iCCM in three countries

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CHWs = community health workers; iCCM = integrated community case management.
Financial support: Foreign Affairs, Trade and Development Canada and the Bill & Melinda Gates Foundation provided financial resources to facilitate the scale-up of iCCM interventions in the three countries.

Disclaimer: The authors alone are responsible for the views expressed in this commentary and they do not necessarily represent the views, decisions, or policies of the institutions with which they are affiliated.

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