MOMENTUM



FACTORS ASSOCIATED WITH RESOURCE UPTAKE AND USE

Promoting implementation of immunization-related toolkits and guidance

This report summarizes findings from a review to identify factors that support uptake and use of immunization-related resources. The term "resource" is used to describe material (e.g., toolkits and guidance) developed to support a specific immunization-related practice, skill, or activity. Table 1 lists characteristics of resources known to promote uptake and use. Table 2 includes factors that support resource implementation. Each table is organized with key findings from the review in the left colum, the middle column provides related strategies that can improve resource uptake and use, and the third column provides evidence for the findings and strategies. These tables can be used by practitioners seeking to prepare for or improve uptake and use of resources, to inform the development

of new resources, or improve existing resources. Findings should be viewed as a starting point and can be adapted

TABLE 1. WHAT TO CONSIDER WHEN DESIGNING OR CHOOSING A RESOURCE?

in accordance with project needs and/or augmented with additional practice-based insights.

When possible, use a resource that maximizes characteristics known to promote uptake and use. These include offering a relative advantage, being easy to use, demonstrating effectiveness and being adaptable to local input.

CHARACTERISTICS OF THE RESOURCE

Ease of use

The end-users of the resource perceive the resource to be easy to understand and use. The language is appropriate for the intended audience, and the resource has an engaging structure that improves the likelihood of use.

WHAT RELATED STRATEGIES COULD IMPROVE UPTAKE AND USE?

- Evaluate the resource for ease of use using criteria including...
 - Language is simple and easy to read Format/structure is easy to follow
 - Content is simple/not overly complex
 - Tools are available to support use
 - Resource is available in the local language
- Pilot test language with local staff.
- Develop additional implementation tools to support use.

WHY IS THIS CHARACTERISTIC IMPORTANT?

WHAT DOES THE LITERATURE TELL US?

- When a resource had a user-friendly structure and layout and information was displayed clearly, it was easier to use.⁴
- Users preferred a resource that was not overly complex with fewer components/elements.⁵
- Tools to support use by frontline workers (e.g., howto guides, job aids, or FAQs) facilitated use. ^{2,6}
- Providing resource documents that were in the local language and were easy to understand facilitated use.⁶
- Testing or piloting content with the community to ensure appropriate interpretation was helpful for implementation.⁶
- The perception that a resource was bulky, complex, or difficult to use was a barrier to use.^{1,2}
- Resources that were too long, complex, difficult to understand, or difficult to use were not preferred.⁴

TABLE 1 CONTINUED ON NEXT PAGE





TABLE 1. WHAT TO CONSIDER WHEN CHOOSING A RESOURCE, CONTINUED

WHY IS THIS CHARACTERISTIC **CHARACTERISTICS OF THE** WHAT RELATED STRATEGIES COULD **IMPORTANT? RESOURCE IMPROVE UPTAKE AND USE?** WHAT DOES THE LITERATURE TELL US? • Participant perception that a resource was better Evaluate the resource for relative Relative advantage than alternatives facilitated resource use.1 advantage using criteria including... • When health care workers (HCW) perceived that a The resource is perceived as resource helped them do their jobs better, they Better than alternatives an alternative that improves were more likely to use it.2 Helps improve work existing ways of working and • When a resource was not compatible with other is complementary, not in Compatible with work responsibilities work responsibilities (e.g., the resource did not fit opposition, to existing into busy schedules), implementation was not as Not duplicative of other resources interventions and successful.1 Pilot test the resource with local programming. • When a resource was duplicative to those already workflows. in use, the new resource was less likely to be used 3 **Effectiveness** Evaluate the resource for • Users preferred resources that provided strong recommendations based on high quality effectiveness using criteria including... The resource should be evidence.5 Content is supported by evidence developed or supported by a • When the resource content was developed by trusted source. It should Resource developed by a credible credible and representative developers, it was deliver on its promises, have source more likely to be used.4 • It is helpful when a resource provides a clear strong evidence of efficacy, There is evidence of resource efficacy connection to the evidence or rationale for and make recommendations inclusion of content.4 based on the evidence. • Implementation was more effective when the Evaluate whether the resource allows Adaptable with local implementation approach was modified based on for adaptation. input the user and their level of knowledge and Seek input from local users to adapt experience.6 Resources should the resource. Resource implementation was improved when acknowledge that resources allowed for adaptations to be made to Identify local adaptations that may be adaptations may be needed fit the local context.2,7 helpful. to enable implementation in Resources were improved when developers Adapt the resource to the local different contexts. The included processes for user reporting and context. feedback and continued to review and update resource should allow for materials based on learning during some modification and could implementation. 7,8 provide guidance on how Poor local adaptability was a barrier to resource adaptations can be made. use.4

TABLE 2. WHAT TO CONSIDER WHEN IMPLEMENTING A RESOURCE?

When implementing a well-chosen or designed resource, it is important to be aware that individuals, teams and organizations, and the broader context can support or impede implementation.

WHAT FACTORS ARE ASSOCIATED WITH RESOURCE UPTAKE AND USE?	WHAT RELATED STRATEGIES COULD IMPROVE UPTAKE AND USE?	WHY IS THIS CHARACTERISTIC IMPORTANT? WHAT DOES THE LITERATURE TELL US?
Sufficient training and capacity building for users Training and technical assistance is provided to prepare individuals to use the resource with fidelity. Training should be appropriate for the audience, of sufficient duration, and integrated with existing training processes and systems. Supportive supervision should be provided to all members of the team during resource use.	 Offer multidisciplinary training for staff. Provide ongoing training and technical assistance to support use. Create systems for supportive supervision. Leverage existing training systems when possible. 	 Resource use was improved when there was sufficient training/orientation provided for staff to be able to use the resource. This included training in resource use, capacity building, and ongoing technical support. 5.8,9 Providing multidisciplinary training for diverse staff facilitated resource use. 2,7 Supportive supervision was important to support resource use. 9,10 Leveraging existing education or training infrastructure or ongoing training opportunities was an effective strategy to support resource use. 2,7 When training was not provided, insufficient or not well coordinated this was a barrier to implementation. 1,2,11 When there was insufficient local supervision or supervision was restricted by limited resources or geographic limitations, resource implementation was limited. 8,10 Resource implementation was less successful when HCW had difficulty interpreting information due to lack of training. 10
User buy-in for the resource Users are aware of the resource and motivated to use it. They believe it is important, that it can improve their work, and that it addresses a perceived need. This may involve a consideration of what incentives are needed for using the resource.	 Identify and leverage champions that support the resource. Articulate the rationale for using the resource, including why change is needed. Provide appropriate incentives for resource use. Consult with front line workers on resource implementation. 	 When users felt that there was a need for change (e.g., perceived lack of own knowledge), they were more likely to use a resource.¹ HCW were more likely to use a resource when they believed that the resource was important, that it significantly impacted healthcare delivery, and that it was helpful.² Resource implementation is enhanced when clinical staff are engaged in resource use and there are clinical champions for the resource.⁷ Consultation with health workers on the ground to understand their needs helped support resource use.³ Reluctance to change practices led to less interest in the resource.⁷ Lack of stakeholder awareness of resource and its rationale limited resource implementation.⁵ Absence of expected incentives led to high staff turnover, low participation rates in implementation of resources.¹⁰

TABLE 2 CONTINUED ON NEXT PAGE

TABLE 2. WHAT TO CONSIDER WHEN IMPLEMENTING A RESOURCE, CONTINUED

WHAT FACTORS ARE ASSOCIATED WITH RESOURCE UPTAKE AND USE?	WHAT RELATED STRATEGIES COULD IMPROVE UPTAKE AND USE?	WHY IS THIS CHARACTERISTIC IMPORTANT? WHAT DOES THE LITERATURE TELL US?
Effective messaging and communication There are effective systems and processes to support communication about the resource and its implementation. This may include necessary systems to communicate with frontline staff. Also important are clear and consistent messages about the resource.	 Craft clear, standardized messaging about the resource. Leverage or strengthen communication systems. Establish communication process with frontline workers. 	 When the process for communicating with frontline staff was challenging, implementation was difficult.⁹ It was difficult to use resources when there wasn't standardized messaging for the target audience.⁵ Conflicting messages about the resource contributed to confusion on which agency or personnel was responsible for implementation, what the objective of the resource was, and where the funding was coming from.³
Sufficient human resources There are enough people with the time, training, and expertise to use the resource as intended.	 Ensure sufficient human resources are dedicated to resource implementation.* Plan for staff attrition during implementation. 	 Staff attrition/turnover was a barrier to resource implementation.^{2,10} Staff were overburdened, which decreased their ability to use the resource.^{2,9} Human resource constraints, including insufficient human resources, limited resource implementation.^{5,7,9}
Funding/financial support There are dedicated funds and financial means, from private and/or public sources, to support resource implementation which includes resource procurement, training, monitoring and evaluation, and unexpected delays or issues.	 Ensure there are sufficient dedicated funds to support sustained resource implementation. Consider multiple sources of resources, including local and federal government, donor, and non-health related sectors. Provide resources to build organizational capacity prior to implementation. Fund critical elements of implementation including training, supervision, monitoring and evaluation, data infrastructure, and responding to unexpected problems. 	 External donor funds were important for resource implementation.¹² Provision of financial support was needed for supportive supervision and training.^{8,10} Funds were needed to support organizational capacity prior to implementation.⁷ Identification of sources of non-health stakeholder funding can contribute to the success of resource goals.³ When national funds were limited, districts were expected to allocate their own funds and resources, limiting implementation.¹⁰ Limited domestic public health funding and investments were a barrier to implementation.⁵ Lack of operating budgets to support scale-up or address unexpected problems created challenges during implementation.⁵ Insufficient dedicated financial support for the implementation and monitoring and evaluation of the resource impeded implementation.⁷ Lack of government funding to sustain implementation was a challenge.¹

TABLE 2 CONTINUED ON NEXT PAGE

^{*}Closely related to and dependent upon funding/financial support

TABLE 2. WHAT TO CONSIDER WHEN IMPLEMENTING A RESOURCE, CONTINUED

WHAT FACTORS ARE WHAT RELATED STRATEGIES WHY IS THIS CHARACTERISTIC **IMPORTANT? ASSOCIATED WITH RESOURCE COULD IMPROVE UPTAKE UPTAKE AND USE?** AND USE? WHAT DOES THE LITERATURE TELL US? • Support for capacity building and implementation of Local and national data Provide training and capacity data quality self-assessments was important for building in data collection and systems implementation.8 • Review meetings and wall monitoring charts Data is available, consistent Develop tools to support data facilitated the use of data for action. 10 across all systems, and of high • Inconsistent monitoring of program performance or use. quality. It is collected and using data for decision-making was a challenge.8 Develop systems for data reported regularly and • Poor quality data collection and reporting at health review and quality assurance. completely and is easily facilities, including persistent discrepancies between Leverage or strengthen data collected manually and data reported in understood among all national data systems. monthly summary reports, impeded stakeholders to be applied for implementation.8 successful use or implementation • Discrepancies between national population figures of the resource. and local estimates made it difficult for health workers to target interventions. 10 • Availability and use of supplies were important for Ensure that there is sufficient Sufficient equipment, implementation.13 funding to support necessary supplies, and infrastructure • Adequate infrastructure (e.g., strong internet equipment and supplies to use connection) was needed to communicate challenges There is enough appropriate and the resource.* and strategies.6 high-quality equipment, supplies, • Lack of transportation was the most reported Invest in and/or leverage and other physical resources to challenge to implementation.¹³ national infrastructure implement the resource as including transportation and intended. information technology. • Collective efficacy emerged as more essential to Positive team culture Prioritize understanding team implementation than self-efficacy.1 culture when planning for • Individuals articulating respect for fellow colleagues There is respect for and resource implementation. was reported as a facilitator of resource confidence in other members of Identify opportunities to implementation.1 the team who will implement and • It was important for individuals to be confident in strengthen or build a positive use the resource, and team colleagues' capacity to contribute equally to patient team culture. members feel part of and and community health, regardless of discipline and Include non-clinical staff when supported by their organization. education level.1 building a team culture. • Individuals voluntarily identifying with the organization supported resource use.1

TABLE 2 CONTINUED ON NEXT PAGE

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TABLE 2. WHAT TO CONSIDER WHEN IMPLEMENTING A RESOURCE, CONTINUED

WHAT FACTORS ARE ASSOCIATED WITH RESOURCE UPTAKE AND USE?	WHAT RELATED STRATEGIES COULD IMPROVE UPTAKE AND USE?	WHY IS THIS CHARACTERISTIC IMPORTANT? WHAT DOES THE LITERATURE TELL US?
Leadership support Leaders of the organization are dedicated to and supportive of implementation of the resource.	 Create an implementation sustainability plan with decision-makers. Establish organizational leadership's commitment to successful implementation of the resource. 	 The level of commitment and seriousness of organizational leadership was important for resource implementation.¹ It was difficult to sustain the implementation of the resource without a plan involving the decision-makers.³ Strong national and health care facility leadership were important for resource implementation.⁷
Political commitment and policy alignment The intentional and sustained actions over time of government body or government personnel towards the success of resource implementation, including legislation, regulations, and rules designed to promote the resource and its use. Political commitment includes buy-in from governmental officials and may involve expressing support for resource use or addressing barriers.	 Identify champions at various levels of government to support uptake and use of the resource. Ensure implementation and use of the resource aligns with laws, regulations, and policies at all levels of government. Communicate with political officials to promote strong government leadership and legislation. 	 Strong political commitment or buy-in from government bodies or officials helped ensure activities were implemented despite problems (e.g., funding delays).¹³ Coordinating policies at all levels ensured that they were complementary to one another when implementing a resource.⁵ Legal protection and regulatory frameworks were essential for effective resource use and uptake.⁵ Strong national public health legislation and regulations were important factors for successful implementation of a resource.⁵ Misalignment of national legislation, regulations, and policy caused challenges for successful implementation.⁵
Strategic partnerships A relationship between two or more organizations or groups to share resources, information, or personnel to achieve a shared goal of supporting resource use. Strategic partnerships may involve different actors from the public or private sector as well as community representatives and other stakeholders.	 Identify prospective partner organizations or groups that share a common purpose. Understand and leverage complementary skills, resources, and personnel of key stakeholders across partnerships. Develop methods to collect stakeholder feedback on resource implementation. 	 Successful implementation of programs demonstrated collaboration among multiple sectors.⁵ Coordination among communities, local organizations, and the private sector to mobilize resources was important for implementation.¹⁰ Understanding community concerns was essential to securing community buy-in for resource implementation.⁶

References

- 1 VanDevanter N, Kumar P, Nguyen N, et al. Application of the Consolidated Framework for Implementation Research to assess factors that may influence implementation of tobacco use treatment guidelines in the Viet Nam public health care delivery system. Implement Sci. 2017;12(1):27.
- 2 A qualitative study of the development and utilization of health facility-based immunization microplans in Uganda. Health Res Policy Syst. 2021;19(Suppl 2):52.
- 3 H I. Key Informant Interview. Conducted October 13, 2022.
- 4 Optimizing the language and format of guidelines to improve guideline uptake. CMAJ. 2016;188(14):E362-E368.
- 5 Saluja K, Reddy KS, Wang Q, et al. Improving WHO's understanding of WHO guideline uptake and use in Member States: a scoping review. Health Res Policy Syst. 2022;20(1):98.
- 6 N C. Key Informant Interview. Conducted October 18, 2022.
- 7 Maki G, Smith I, Paulin S, et al. Feasibility Study of the World Health Organization Health Care Facility-Based Antimicrobial Stewardship Toolkit for Low- and Middle-Income Countries. Antibiotics (Basel). 2020;9(9).
- 8 MCSP. Applying the Reaching Every District/Reaching Every Child (RED/REC) Approach to Strengthen Routine Immunization in Five Health Districts in Burkina Faso. USAID; 2019.
- 9 Mwanamwenge A, Masumbu P, Mwansa FD, et al. Evaluation of the Implementation of the Reaching Every District Approach in Routine Immunisation in Lusaka District, Zambia . Med J Zambia . 2016;43(3):152-155.
- 10 Ryman T, Macauley R, Nshimirimana D, Taylor P, Shimp L, Wilkins K. Reaching every district (RED) approach to strengthen routine immunization services: evaluation in the African region, 2005. J Public Health (Oxf). 2010;32(1):18-25.
- 11 Melhem S, Ariss A. Optimizing vaccine delivery by teaching healthcare workers digital skills. World Bank. July 1, 2021. Accessed November 2, 2022. https://blogs-worldbank-org.ezp-prod1.hul.harvard.edu/digital-development/optimizing-vaccine-delivery-teaching-healthcare-workers-digital-skills
- 12 Mala P, Zuber P, Politi C, Paccaud F. Ideal and reality: do countries adopt and follow recommended procedures in comprehensive multiyear planning guidelines for national immunization programmes? Implement Sci. 2015;10:48.
- 13 Ryman TK, Elsayed EA, Mustafa AAM, Widaa NM, Omer A, Kamadjeu R. Implementation of the Reaching Every District (RED) approach: experience from North Sudan. *Eastern Mediterranean Health Journal*. Published online November 2, 2011.

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