Technical Brief

Defining Health Campaigns and Health Campaign Effectiveness

Rebecca Wernette,* Barkha Bhatnagar,† Eva Bazant‡

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Key Messages

- Health campaigns are time-bound, intermittent activities that address specific epidemiological challenges, expediently fill delivery gaps, or provide surge coverage for health interventions. Campaigns are an important strategy to address high priority diseases (e.g., neglected tropical diseases [NTDs], malaria, polio and other vaccine preventable diseases [VPDs]), and malnutrition (e.g., vitamin A supplementation) across different geographic areas.

- Health campaigns are complex and can be implemented for a short- or long-term need, can be reactive or proactive, and can target a community or subnational/national population. While campaigns have the benefit of targeting specific health needs, multiple campaigns might result in strategic and operational inefficiencies and inequities that can strain health systems, burden health care workers, weaken health services, and limit their long-term health impact.

- Measures of health campaign effectiveness have typically focused on coverage of the intervention’s target population. Yet, there are major data quality and measurement issues around coverage.

- It is important to consider other measures of campaign effectiveness, besides coverage indicators. These indicators should capture both demand-side campaign outcomes (beneficiary acceptability, awareness, and satisfaction) and supply-side campaign outcomes (health worker acceptability, equity, and efficiency). A more encompassing understanding of effectiveness has the potential to improve overall campaign outcomes, enhance population health, and result in stronger, more efficient, and more equitable health systems.

Purpose

- To provide an introduction to the broad evidence base on the ways that campaigns are defined, the circumstances under which they are used, and the metrics of effectiveness used to reflect the success of campaigns

- To stimulate discussions among country programs, donors, and implementing partners to improve campaign and population health outcomes and to share information across varied programs that use campaigns

Target Audience(s)

- Regional and country-level stakeholders and policy makers who oversee, plan, implement, or monitor health campaigns

- Global organizations that fund, oversee, coordinate, or issue guidance around health campaigns

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*R Research Associate, Task Force for Global Health (TFGH)
†Health Systems Research Associate, TFGH, and DrPH Candidate at Boston University School of Public Health
‡Senior Associate Director, Implementation Research, TFGH
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Introduction

Long-standing public health campaigns have been implemented for neglected tropical diseases (NTDs), malaria, polio and other vaccine preventable diseases (VPDs), and vitamin A supplementation with broad reach around the globe. An integral part of public health strategy, campaigns have been used to provide high coverage of targeted interventions, especially to populations that face challenges in accessing ongoing health services. Health campaigns have also had major impact on disease elimination and eradication efforts.

To respond to disease outbreaks, eliminate or eradicate targeted diseases, or achieve other health goals, campaigns and campaign implementation processes have varied across different programs and different geographic settings (1). The most common measure of effectiveness across all health domains is the extent to which a target population is reached with an intervention (i.e., coverage), and supplemented with a focus on the absence of avoidable differences in coverage within the population (i.e., equity). While coverage is an important indicator for the reach of a campaign, other measures of effectiveness are needed to fully understand a campaign’s success and how it is achieved and sustained. For example, the 2016-2020 strategy for Gavi, the Vaccine Alliance, has four goals for achieving immunization program effectiveness including vaccine coverage, sustainability, health systems, and market shaping (2). These goals are measured using indicators related to coverage, equity, financing, capacity, supply-chain, and community engagement (2). By using such a multi-faceted approach to understanding effectiveness, a broader picture emerges that can show where a campaign’s strengths and weaknesses may fall—allowing for a better understanding of whether campaigns are contributing to equity, efficiency, and health impact.

Methods

We reviewed published and grey literature on campaigns and campaign effectiveness pertaining to neglected tropical diseases (NTDs), malaria, polio and other vaccine-preventable diseases (VPD), and vitamin A supplementation. The focus of our review was on a small sample of references highlighted by experts with extensive experience in conducting campaigns in different countries. The goal was not to conduct a meta-analysis but to identify the most critical information needed to initiate a dialogue on health campaigns and their impact.

Summary of Findings

Campaigns have been an essential strategy for disease prevention, control, elimination, and eradication in addition to ongoing health services for decades. The word ‘campaign’ is commonly used to describe delivery of targeted large-scale health interventions, although this definition varies across public health programs (3,4). Variation also exists in how campaigns report their successes, using a wide range of metrics across and between campaign types. Given this variation, this brief aims to answer the following questions:

1. What is a health campaign?
   What are the key characteristics of health campaigns? What are their strengths and limitations?
2. Under what circumstances are health campaigns used to deliver health interventions?
3. What factors influence the decision to deliver an intervention via campaigns?
4. What is health campaign effectiveness and how is it measured?
   What are the measures of campaign effectiveness, and how do they vary across programs and contexts?
Selected findings are summarized under each of the three questions.

1. **What is a health campaign?**

According to the International Federation of Red Cross (IFRC), the World Health Organization (WHO), and the United Nations Children’s Fund (UNICEF), the term health campaign is commonly used in reference to “supplementary activities to routine services used to achieve high population coverage” (5). In a systematic review of integration of targeted interventions and health systems, Atun et al found that health campaigns “may be desirable as a temporary measure if the health system (and primary care) is weak; if a rapid response is needed; to gain economies of scale; to address the needs of target groups that are difficult to reach; or to deliver certain very complex services when a highly skilled workforce is needed” (6). Campaigns have been a predominant strategy for delivering health interventions and are planned in a variety of health domains in all WHO regions, but are most heavily relied on in the African region (see Figure 1) (7). While recognizing variation in the goals and delivery methods, the Health Campaign Effectiveness (HCE) Coalition defines campaigns as *time-bound, intermittent activities that are deployed to address specific epidemiologic challenges, expeditiously fill delivery gaps, or provide surge coverage for health interventions* (1).

![Figure. Planned Campaigns by WHO Region* and Disease, 2019](image)

Source: [Linksbridge, Campaign Effectiveness and Efficiency](#)

*AFRO, Region of the Americas (PAHO), South-East Asia Region (SEARO), European Region (EURO), Eastern-Mediterranean Region (EMRO), Western Pacific Region (WPRO)

†NTDs include lymphatic filariasis, onchocerciasis, schistosomiasis, soil-transmitted helminths

‡Vaccines include measles, meningitis, rotavirus, tetanus, typhoid, yellow fever

**Characteristics of Health Campaigns**

Typically, campaigns are organized in a vertical fashion, which calls for a solution to a given health problem by means of a single delivery system (8). They usually target individuals in a large geographical area (mass population) but can also be focused on a smaller community level.

Campaign design is an important consideration to effectively reach the target population. Depending on the campaigns goal(s) and implementation methods, health campaigns can be categorized based on the following characteristics (9):

- **Planned duration of the campaign**—short- or long-term in nature. Campaigns may be done in phases or rounds to reach different geographies or to reach the same target population with repeated interventions (10).
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• **Frequency of activities**—occur in regular or irregular intervals depending on seasonality of disease incidence or epidemiological needs (e.g., the development of a sizable group of susceptible individuals)

• **Organization of activities and service delivery**—depending on these epidemiological needs, campaigns are reactive or pre-emptive in nature. Reactive campaigns respond to a health threat, while pre-emptive campaigns are used to promote better health, move towards disease eradication, and/or prevent an anticipated health threat (3). These factors and coverage goals influence the choice of delivery methods such as door-to-door, fixed point, school-based, transit point, or other methods.

• **Use of single or multiple strategies**—to achieve campaign goals and reach the target population. When repeated use of a product is desirable, campaigns may rely not only on providing the intervention to the target population but also on fostering a behavior change within that population. These campaigns utilize communications methods, in conjunction with providing a product, to create awareness, increase acceptability, and/or change behaviors.

### Strengths and Limitations of Health Campaigns

<table>
<thead>
<tr>
<th>Strengths</th>
<th>Limitations</th>
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<tbody>
<tr>
<td>• Credited with delivering health interventions to millions of people worldwide (1)</td>
<td>• Can divert health-care workers from regular duties, causing the temporary halt of ongoing health services (13,14)</td>
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<tr>
<td>• Situated to address the needs of specific, hard-to-reach populations (11)</td>
<td>• Can result in reallocation of funds and other supplies from ongoing health services. This is due to inadequate financial and human resources that get diverted from the ongoing health system in favor of the campaign (13,14)</td>
</tr>
<tr>
<td>• Capable of achieving quick results, and easier to manage than other programs delivered through ongoing health services (8)</td>
<td>• Can result in prioritization of high-profile diseases, regardless of disease burden (15)</td>
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<tr>
<td>• Able to attract political support and funding from donors (8)</td>
<td>• Can show coverage gaps immediately post-campaign, requiring new ongoing distribution channels (12)</td>
</tr>
<tr>
<td>• Can be a cost-effective way to achieve high and equitable coverage (12)</td>
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</tr>
</tbody>
</table>

Table 1 defines these characteristics in more detail.

### 2. Under what circumstances are health campaigns used to deliver health interventions?

Several factors are related to whether a health intervention is delivered a) via a campaign, b) by integrating multiple interventions in campaigns, or c) by integrating campaigns or their components with the primary health care system.¬† These factors, along with examples, include the following:

- **Health System Strength (Health System Coverage, Capacity, Equity).** Campaigns are often deployed where ongoing health services have insufficient reach or provide coverage to populations that otherwise have insufficient access to care (1).
  - Nigeria has the highest frequency of campaigns compared to other countries, and it has a limited universal health care system (1). Similarly, Guinea employs many campaigns, as its primary health care system lacks the infrastructure to respond to outbreaks (11).

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†Technical Brief: Integrating Components of Health Campaigns with the Primary Health Care System
3. What is health campaign effectiveness and how is it measured?

WHO defines effectiveness as

...the extent to which the programme/initiative’s objectives were achieved or are expected to be achieved, taking into account their relative importance. Effectiveness is also used as an aggregate measure of (or judgement about) the merit of worth of an activity – i.e. the extent to which a programme has achieved, or is expected to achieve, its major relevant objectives and have a positive institutional impact (22).

Metrics to measure effectiveness vary across diseases, strategies, and countries but can be understood at the level of programmatic output (e.g., drug doses delivered), outcome (e.g., campaign coverage), and health impact (e.g., decline in the incidence of disease after the campaign) (1,17). Measures are the broad indicators of program performance, such as coverage or equity; whereas, a metric is a core indicator that quantifies a measure and is comparable between populations (18). Effectiveness measures are centered around programmatic outcomes or health impact:
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Programmatic Outcomes

- **Coverage**—the proportion of the target population receiving the intervention (19)
- **Equity**—provision of high-quality interventions uniformly and in a fair and impartial manner to all target populations, including underserved groups (19)
- **Access**—the ease in reaching the health intervention in terms of location, time, and ease of approach (20)
- **Efficiency**—higher levels of performance (coverage, access, or equity) relative to the inputs (resources, time, money) (19). As an example, cost-effectiveness analysis is the ability to reach populations at the best outcome per dollar spent (1).
- **Awareness**—increases in awareness, community engagement, and/or change in behavior (21)

Health Impact Indicators

- **Disease incidence**—changes in the rate of individuals who develop a specific disease or experience a specific health-related event within a period of time (e.g., month or year) (22)
- **Morbidity and mortality** related to the disease. These may be age-specific rates that relate to a specific time period (2).

The appropriate choice of these measures is determined by the 1) goals of the campaign, 2) available resources for data collection, and 3) political needs (1,23). Table 2 provides examples of the ways that health domains measure campaign effectiveness.

Across health domains, effectiveness is most often measured from the supply side. Coverage is the most frequently used measure of campaign effectiveness. However, utilizing coverage as the sole indicator of campaign effectiveness may not take into account the full complexity of campaign design, and valuable information might be overlooked that would account for contextual elements of a campaign that contribute to, hinder, or are extraneous to success. For example, many campaigns still leave coverage gaps. These gaps may be a result of poor data quality or inadequate monitoring systems due to weak health systems, or may be in relation to another measure of effectiveness not evaluated (1). For example, in 2017 only 31% of mass drug administration campaigns for NTDs reached their coverage targets (24). In studies of insecticide-treated bed net campaigns in Ethiopia, gaps in coverage were associated with both access and behavior change relating to use (25). Meanwhile, many polio campaigns have discordantly reported reaching more than 100% of their target population, demonstrating the difficulty in accurately assessing the numerator and/or the denominator (1).

Numerator may be inflated by counting doses administered to persons who were not targeted (e.g., siblings outside of the target age group), and denominators may be either too high or too low because they are often based on outdated data that don’t take into account migration. Additionally, discrepancies may be due to inadequate recording, such as using the count of doses administered without recording which individuals received the intervention (e.g., using tally sheets to count doses delivered versus using home-based records) (26). These data quality issues can divert resources and draw attention away from disease programs, such as happened in Burkina Faso where a large measles outbreak occurred in 2009 despite vaccination coverage reported at greater than 95% (27). Data on coverage are often nationally aggregated, which limits a country’s ability to accurately monitor progress (28). This may mask subnational differences in campaign performance.

While coverage is the measure commonly used across all health domains, gaps that are not addressed by coverage indicators may be better understood through other measures of effectiveness. These include those related to the supply side such as equity, efficiency, and health worker acceptability, and to the demand side in terms of beneficiary acceptability, accessibility, awareness, and satisfaction. Measures to consider may include the perceived quality of the care provided, as well as other social determinants contributing to the access of an intervention including affordability, accessibility, and availability. These measures are important for determining
systemic issues that hinder service delivery and thus contribute to lower coverage and equity (29). Additional measures that may be important for understanding the extent to which a campaign is or is not reaching coverage targets include awareness and acceptability, especially for campaigns that rely on a high level of behavior change or community engagement. This is influenced in part by perceived need by the target population, as individuals who do not think an intervention is needed are unlikely to partake in it, even if it is free (29). Community health workers may address some of these gaps by increasing the intervention’s acceptability by and access to the population, though more research is needed to determine if this is true in all campaign contexts (30). While the aforementioned issues are important to consider, this is not an exhaustive list of measures to be explored.

The complexity and context of a health campaign should be considered when selecting measures of effectiveness (31). To best understand what aspects of a campaign directly impact the outcomes, campaigns must identify “which elements belong to the intervention (and therefore participate in its effects and can be transferred), which ones belong to the context and interact with the former to influence results (and therefore must be taken into account when transferring the intervention) and which contextual elements are irrelevant to the intervention” (32). Because weak health systems often have inadequate monitoring systems leading to difficulties collecting reliable data, effectiveness measures for health interventions often lack comprehensive metrics (31).

**Conclusions**

A common understanding and use of metrics for campaign effectiveness will aid in determining campaign success in a variety of contexts. Given the complexity of campaigns, without more robust use of effectiveness metrics important and valuable data may not be collected. This creates gaps in the ability to identify factors determining whether a campaigns target goals are met.

A shared understanding of the combination of metrics and measures to best determine campaign effectiveness is important to

1. **Build a knowledge base of what works and generate a process of shared learning among campaigns;**
2. **Improve the quality of decision making;**
3. **Foster interdisciplinary dialogue among stakeholders of campaigns; and**
4. **Sustain interest in, and funding for, health campaigns that demonstrate positive outcomes (17).**

Currently, the majority of campaigns focus on quantitative measures of effectiveness, specifically in terms of coverage, and give minimal consideration to qualitative measures, such as those that contribute to acceptability. By broadening the evidence base of metrics to determine campaign effectiveness, data compiled through cross-campaign sharing may allow for improvement in identifying and correcting shortfalls in reaching target goals. This will in turn lead to a better understanding of “whether the objectives formulated in the programme are being achieved, what the successes and difficulties have been, how appropriate the solutions chosen have been and what the influence is of factors external to the programme” (33).

Fostering discussion among campaign planners to determine the appropriateness of metrics can lead to improved understanding of campaign performance, effectiveness, and efficiency through shared learning. Addressing the evidence gaps relating to campaign effectiveness metrics will help to promote transparency and accountability of public health campaigns (17).
Evidence Gaps

The following issues contribute to evidence gaps related to defining a health campaign and campaign effectiveness:

- **Poor data quality impacts the reliability of using coverage as a sole indicator of effectiveness.** Coverage is measured in a variety of ways, but gaps show that there are some issues in data quality that disallow accurate cross-campaign comparison. This may be in part due to nationally aggregated data masking subnational disparities in effectiveness.

- **Other measures are needed to comprehensively explore effectiveness.** Coverage measures are the most prevalent ones used for campaign effectiveness, but coverage is only one component. Other measures of health and programmatic outcomes need to be identified and used so campaigns can choose a more comprehensive approach to identify the components that make them more effective in achieving target outcomes.

- **Efforts should be undertaken to determine measures needed for different campaigns given their contexts.** Developing guidance on when it is appropriate to choose a specific measure for a given campaign.

- **Metrics are needed for determining equity, efficiency, accessibility and acceptability.** All are important components of campaigns, but metrics are lacking for many domains in how to best evaluate these.

Future opportunities

Discussions among stakeholders and implementation research is needed for the development of guidelines or frameworks to enable programs to choose the most appropriate measure(s) and metric(s) to assess campaign effectiveness in different contexts. The findings will contribute to building a shared understanding of different measures of campaign effectiveness. This shared learning will facilitate the understanding of factors that lead to successes and failures of campaigns in reaching their coverage goals.

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- Julia Mulroy

Contact

For more information on this topic or to discuss further with the Health Campaign Effectiveness team, please visit www.campaigneffectiveness.org or contact the program directly at: campaigneffectiveness@taskforce.org.
### Table 1: Characteristics of Health Campaigns

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Definition</th>
<th>Examples</th>
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<tbody>
<tr>
<td><strong>Duration</strong>—the planned length of the campaign (9)</td>
<td>Short/Long-Term. Depending on its goals, the campaign may be short- or long-term in nature. Duration may be viewed differently at different levels of the campaign (i.e., by a household vs. national office).</td>
<td>The Global Polio Eradication Initiative (GPEI) campaign in India is long term, ongoing since 1995 (34). Cholera outbreak campaigns in Africa are short term in nature, lasting just a few days (13).</td>
</tr>
<tr>
<td><strong>Frequency</strong>—how often the campaign activities are repeated (9)</td>
<td>Episodic, Periodic, Seasonal. Occurring in irregular intervals (e.g., when an outbreak is anticipated or in response to an outbreak), occurring in regular intervals, occurring during a particular season, respectively (34).</td>
<td>DPT immunization campaigns through mobile clinics are episodic, whereas the distribution of insecticide-treated bed nets (ITN) for malaria at regular intervals is periodic (28). Measles campaigns can be optimized if given seasonally during low transmission times (35).</td>
</tr>
<tr>
<td><strong>Organization</strong>—the organization of campaign activities and service delivery (9)</td>
<td>Vertical/Horizontal. Vertical campaigns call for a solution to a given health problem through a single delivery system (8). Horizontal approaches tend to be longer in duration and cover general health services that are comprehensive and flexible to changing disease patterns and lifestyles (8). In developing countries, disease-specific interventions are implemented vertically and on a massive scale (36).</td>
<td>The national immunization days’ campaigns for polio eradication are an example of vertical campaign structures, whereas the Expanded Program on Immunization (EPI) campaigns is horizontal in nature, focusing on ongoing (routine) immunization services (8).</td>
</tr>
<tr>
<td><strong>Community/Mass.</strong></td>
<td>Mass campaigns deal effectively with health issues that affect a large proportion of the population and may be national in scope (8). Community-based campaigns may be localized to a specific subset of a population, such as in one city or neighborhood (37).</td>
<td>The African Program for Onchocerciasis Control (APOC) focuses on community based treatment, whereas vitamin A supplementation is often delivered in mass child health days’ campaigns in Ethiopia (4,38).</td>
</tr>
<tr>
<td><strong>Reactive/Proactive.</strong></td>
<td>Reactive campaigns are in response to a health threat, such as in an outbreak situation. Proactive (pre-emptive) campaigns are used to promote better health, move towards disease eradication, or prevent an anticipated health threat (3).</td>
<td>The polio eradication campaign in India was proactive in nature, aiming to eradicate polio (34). Campaigns responding to cholera outbreaks in Africa are reactive in nature (13); pre-emptive cholera campaigns also may be planned to prevent recurrence of outbreaks in “hot spots.”</td>
</tr>
<tr>
<td><strong>Use of Multiple Strategies</strong>—the use of appropriate strategies to achieve campaign goals, such as communication techniques and service delivery (9)</td>
<td>Community Engagement/ Behavior Change. An intervention campaign delivers a specific product, such as a vaccine or bed net, to the people. A communication awareness campaign is used to increase knowledge of a health problem and to change a community’s behavior towards that problem through messaging. Communications are often a key part of a larger campaign, especially for a product that needs behavior change to be used repeatedly. These are often used in combination, but with the amount of behavior change and community engagement varying with campaign type.</td>
<td>Immunization campaigns are an example of intervention campaigns delivering a product to the people, whereas Zero Malaria Starts With Me is an awareness campaign used to educate people about malaria prevention and keep malaria high on the political agenda (39).</td>
</tr>
<tr>
<td><strong>Target/Goal-Oriented</strong>—campaign should reach defined target population and achieve goals (9)</td>
<td>Monitoring and Evaluation. Evidence-based evaluation should be conducted to assess whether outcomes and goals of the campaign are achieved and are able to make changes as needs arise (9).</td>
<td>Rapid convenience modeling is used in supplemental immunization activities (SIAs) in Nepal, to monitor vaccination coverage, and to enable immediate corrective actions when poorly vaccinated areas are identified (16).</td>
</tr>
</tbody>
</table>
## Table 2. Measures of Campaign Effectiveness

<table>
<thead>
<tr>
<th>Outcome and Metrics Used</th>
<th>Neglected Tropical Diseases*</th>
<th>Malaria</th>
<th>Polio</th>
<th>Vaccine-Preventable Diseases†</th>
<th>Vitamin A Deficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Organization</td>
<td>USAID (40)</td>
<td>AMP (41-43)</td>
<td>GPEI (44)</td>
<td>Gavi, WHO (2,45)</td>
<td>UNICEF (46)</td>
</tr>
</tbody>
</table>

### Programmatic Outcomes

<table>
<thead>
<tr>
<th>Coverage/Reach</th>
<th>% population coverage target reached</th>
<th>Proportion of households with 1 ITN/LLIN, measurement of the prevalence of parasitemia and anemia in children 6—59 months of age</th>
<th>% children under 5 vaccinated out of target population</th>
<th>% of target population reached with full vaccination (three-dose pentavalent for GAVI and three DTP for WHO)</th>
<th>% children 6-59 months receiving one and two dose</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equity</td>
<td></td>
<td></td>
<td>Gender disaggregated coverage data for boys/girls</td>
<td>Coverage of immunization by wealth distribution</td>
<td>% never received vitamin A, by wealth quintile</td>
</tr>
<tr>
<td>Access</td>
<td>Drug doses delivered</td>
<td>Proportion with access to ITN/LLIN in house</td>
<td>% children reached with last dose of vaccines recommended across all supported countries</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Awareness</td>
<td></td>
<td></td>
<td></td>
<td>Countries that have assessed vaccine confidence</td>
<td></td>
</tr>
<tr>
<td>Efficiency (Cost-Effectiveness)</td>
<td></td>
<td></td>
<td></td>
<td>Weighted average price of fully immunizing a child with 3 vaccines</td>
<td></td>
</tr>
</tbody>
</table>

### Health Impact Indicators

<table>
<thead>
<tr>
<th>Disease Incidence</th>
<th>Proportion of at-risk population having cases of febrile illness with parasites above threshold</th>
<th>Cases of acute flaccid paralysis</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Morbidity/Mortality</td>
<td>Malaria death rate, measurement of overall infant and under-5 mortality</td>
<td>Number of future deaths prevented, disability adjusted life years averted, reduction under 5 mortality rate</td>
<td></td>
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</tbody>
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*Lymphatic filariasis, soil-transmitted helminths, schistosomiasis, onchocerciasis, trachoma)

*Cholera; dengue; Japanese encephalitis; measles, mumps, rubella; meningitis A; tetanus; typhoid; yellow fever*
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