



Redefining strategies to address the multifaceted battle against malaria

Context

At the 23rd Strategy Committee (SC) meeting, the scope of malaria challenges and planned mitigations were discussed as the malaria risk appetite moves to 'high'. The Secretariat wanted to raise the SC's awareness of the current approaches and remaining needs, in particular to advocate for support for efforts to address funding gaps and continued focus in key areas.

Against the backdrop of the global malaria response, presented during an Informal Board call on 29 September, the SC discussion focused on the Global Fund's areas of influence. The SC discussed the current progress on malaria control and the challenges it faces, how these challenges are being mitigated and if these mitigation opportunities are enough to get the global malaria response back on track.

Malaria control: current progress

We are far from meeting the Global Malaria Technical Strategy targets, as Figure 1 shows.

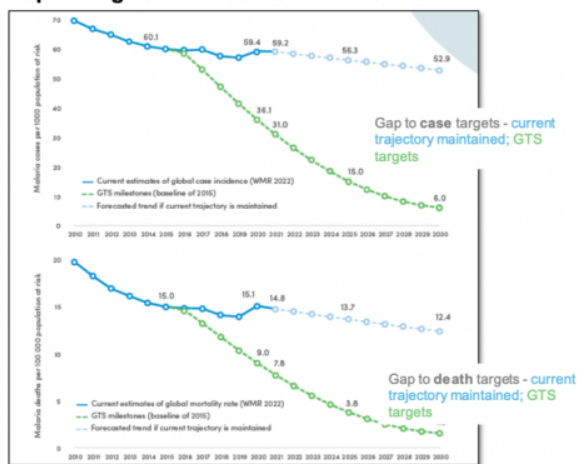
Figure 1. Gaps in targeted reductions in malaria cases and deaths according to Malaria Technical Strategy targets

Global Malaria Technical Strategy 2020 targets

Goals	Milestone		Targets
	2020	2025	2030
1. Reduce malaria mortality rates globally compared with 2015	At least 40% ✗	At least 75%	At least 90%
2. Reduce malaria case incidence globally compared with 2015	At least 40% ✗	At least 75%	At least 90%
3. Eliminate malaria from countries in which malaria was transmitted in 2015	At least 10 countries ✓	At least 20 countries	At least 35 countries
4. Prevent re-establishment of malaria in all countries that are malaria-free	Re-establishment prevented ✓	Re-establishment prevented	Re-establishment prevented

By 2020, key milestones for reducing malaria cases and deaths **had not been achieved, but milestones for elimination and prevention of reestablishment had been met**

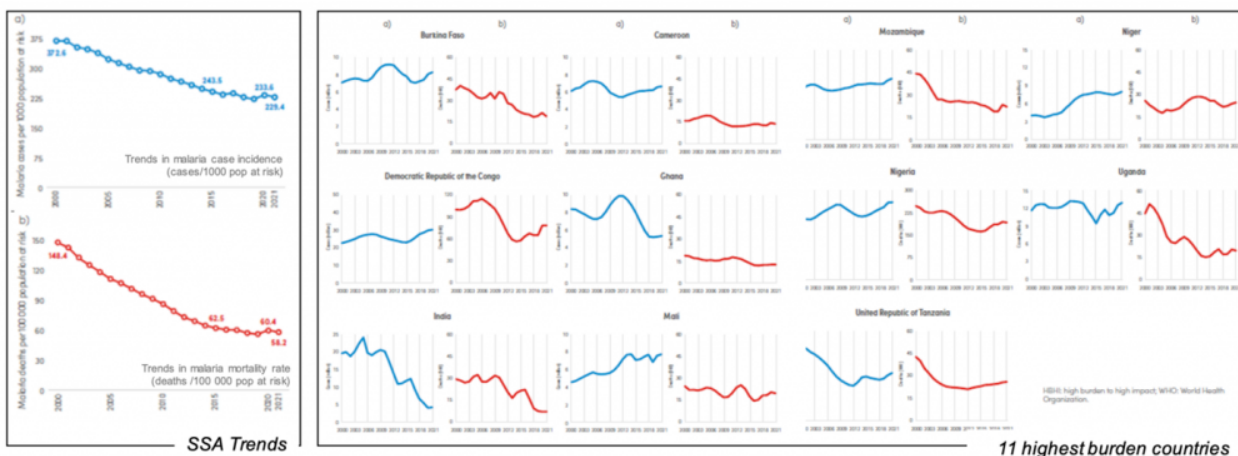
Gap to targeted reductions in cases and deaths



By 2021, Global malaria case incidence was 59 cases per 1000 population at risk, against a target of 31 cases per 1000 – **off track by 48%**

The status in Sub-Saharan Africa has plateaued. In the 11 highest burden countries, while small overall declines in absolute number of deaths there have been increase in absolute number of malaria cases (from 165 million in 2020 to 166 million in 2021).

Figure 2. Trends in SSA and highest burden countries

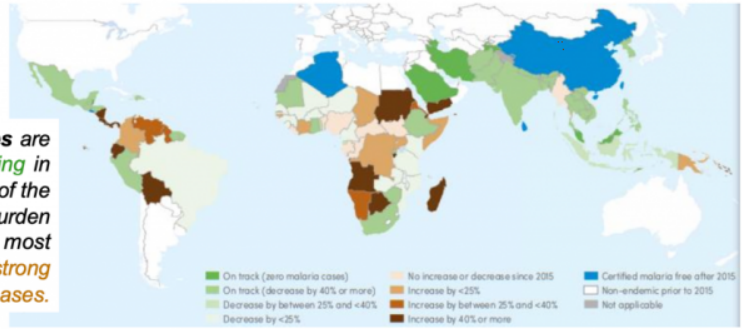


The global picture shows mixed progress.

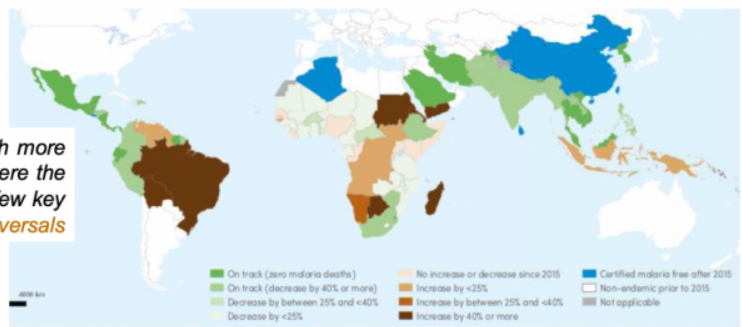
Figure 3. Global progress in malaria control

A diverse global picture demonstrates heterogenous progress

Malaria cases are *decreasing* in some of the highest burden countries but most have *strong increases*.



Progress against *deaths* is better, with more countries showing strong *declines* - here the challenges are more focal with a few key countries show *important reversals*



Source: Global Fund

Challenges

Low coverage of existing malaria tools, population dynamics and security issues, climate change, financial issues and biological challenges such as drug and insecticide resistance and invasive vectors are just some of the constraints. There is a complex interplay of financing and programmatic challenges:

<p>Quality of programming is improving – more cost-effective but higher absolute cost</p>	<p>Achieving sustainable coverage – particularly the last mile – has challenges</p>	<p>Co-dependence of RSSH and malaria brings opportunities and challenges</p>	<p>Financial gaps faced by all malaria partners</p>
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- Subnational tailoring and some regional approaches can drive progress
- Identified drug or insecticide resistance need for better, more expensive commodities.
- Identified substandard programme quality need for expansions in delivery models.
 - Better understanding of malaria tools coverage and lifespan affects commodity needs and operational plans.
 - Extending or scaling-up innovative malaria tools such as SMC, malaria vaccines, etc
- Evidence-based data through increased surveillance tailored to local context and targeting the most in needs.
- High costs of elimination strategies .

- Achieving and maintaining coverage of effective tools to the most in need is hindered by the challenge of reaching the last mile, and product durability.
- Reaching vulnerable populations the last mile continues to be challenging for malaria with health systems often weakest at these points but innovative approaches are seeing some success.
- Costs per person reached increase at the last mile.

- A strengthened health system particularly at community and primary public health care level supports sustainability of quality malaria services.
- Investing in malaria is investing in strengthening health systems, given malaria's huge contribution to the public health burden in many places. Malaria programming in the last mile can particularly be an entry point to community system strengthening; challenging financing trade-offs can arise.

- Economic climate limits government capacity to maintain/increase malaria funding
- Difficulty of other financiers to support gaps given similar resource challenges and widespread increased costs
- President's Malaria Initiative/Against Malaria Foundation unable to access GF negotiated dual-AI ITNs containing pyrethroid plus chlorfenapyr (CFP) ITN prices – due to special contracting terms. Ongoing conversations with manufacturers to extend pricing to partners.
- Recognized gap in malaria funding, with the 2022 World Malaria Report reporting \$3.8 billion for 2021 alone.

These challenges were reflected in Grant Cycle 7 (GC7) funding requests (FRs)

The initial picture is already changing: all countries applying to the GF GC7 this year saw gaps in essential malaria services, mostly in Year 3. And key funding challenges persist. Malaria interventions remain underfunded especially in high burden malaria countries – this ‘struggle to tread water’ means there is an inability to innovate around delivery models of effective tools or expanded deployment of innovative malaria tools. Some examples of ITN gaps are Guinea at \$17 million, the DRC at a shocking \$200 million and Senegal at \$20 million. Meanwhile, partners are struggling to maintain the needed geographic coverage, with some withdrawing their ITN campaign support (e.g. in DRC, Guinea, and Senegal).

Funding challenges, country-led prioritization decisions and bio-threats have combined, leading to insufficient program scope. The estimated malaria funding gap for Windows 1 and 2 is approximate \$1 billion to sustain essential services (public sector case management, ITNs in high and moderate burden countries, and SMC) without factoring in the implementation of sub-national tailoring as per country national strategic plan or looking at the full optimal product selection (increasing the gap to \$1.5 billion).

Actions to mitigate the challenges

Address financing challenges with partners under the leadership of malaria endemic countries

Explore all funding	<ul style="list-style-type: none"> ? Work with countries and partners on advocacy plans and work globally in resource mobilization. ? Explore innovative financing mechanisms under the leadership of malaria endemic countries. ? Prioritize conversations with the private sector and explore joint areas of concern e.g. climate change. ? Explore COVID-19 Response Mechanism (C19RM) reprogramming opportunities where relevant.
Optimizing investments	<ul style="list-style-type: none"> ? Sub-national tailoring of malaria interventions as per the country national malaria strategies to supporting both optimization and prioritization decisions ? Examine potential for efficiencies during grant making by changing product specifications, delivery models or scope of ‘supportive’ activities (such as support supervision) – but risk/benefit critical to assess. ? Alternative financing approaches can bring efficiencies and will be further explored.
Address unit costs	<ul style="list-style-type: none"> ? Working with partners under the NextGen MarketShaping SI has seen a successful start with the Revolving Fund lowering CFP nets prices; there is potential for a co-financing model for specific artemisinin-based combination therapies (ACTs). ? Move towards standardization in ITNs – important value for money opportunities, but implementation/change management challenges.
Prioritize highest impact investments	<ul style="list-style-type: none"> ? WHO GMP prioritization document across interventions. ? Work with national programs, WHO and other partners to consider relative cost effectiveness and prioritize highest impact interventions as per Malaria strategic plans, includes consideration of omitting lower risk geographies/populations at greater scales than previously

Address case management challenges

<p>Diversify ACT portfolios</p>	<p>?With partners, support countries to consider Multiple First Line (MFT) strategies to delay emergence and spread of resistance. ? W1/W2: positive examples of countries including MFT plans, especially in countries reporting partial resistance – but insufficient in scope, particularly in countries where there is an opportunity to avoid emergence, due to large part to funding decision trade-offs, as well as needs for TA and operational support.</p>
<p>Support surveillance for informed decision-making</p>	<p>?Support and align across partners, Therapeutic Efficacy Surveys (TES) and HRP2/3 gene deletion surveys and strong data sharing, to inform appropriate introduction of health products. ?TES and HRP2/3 gene deletion studies budgeted and prioritized.</p>
<p>Address critical barriers through market shaping</p>	<p>?Market barriers to scale-up AS-PY and DP, AS-AQ being considered to reduce pressure on AL*. ?NextGen Market Shaping SI likely to include ACT co-financing, a short-term solution to reduce price gap – increase affordability, drive up demand but funding is far off the need. ?With partners, ensuring country readiness in terms of resistance mitigation strategies and framework for introduction of diversified ACTs.</p>

*AS-PY = artesunate-pyronaridine, DP = dihydroartemisinin-piperazine, AL = artemether lumefantrine

Address vector control challenges

<p>Scale up coverage of effective vector control</p>	<p>?Scale up to better nets has been accelerating since GC6 but the opportunity for impact from greater shift is not yet being fully embraced – (acceleration may increase through grant-making). ? Sub-national tailoring of malaria vector control as per the country national malaria strategies to supporting both optimization and prioritization targeting the most in need. ?Support national decision-making around balancing coverage and tool choice. ?Aspiration for better nets is high, challenges are around financial gaps. ?Innovations in downstream efforts to more successful and efficiently reach coverage and usage targets, including in last mile: digitization, value stream mapping, activity-based contracting, alternative deployment modalities.</p>
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<p>Address critical market barriers to most effective tools</p>	<p>?With partners, under NextGen Market Shaping SI, lower pricing has been achieved for CFP Dual AI nets using the Revolving Facility and an innovative operating model with a smaller number of standard net specifications. ?This has enabled an increase in expected volumes of these most effective nets, and will require ongoing discussions with countries to transition to the standard net specifications. ?Need for more nuanced decision-making for countries around value for money.</p>
<p>Support surveillance to enable informed decision-making</p>	<p>?Recommend maintaining entomological surveillance to support decision-making and performance monitoring. ?Strong support from other partners: PMI and BMGF. ?Continued challenges on appropriate scope and scale and maintaining priority against other needs.</p>

The malaria vaccine could be a potential game-changer

The advent of the Gavi-approved malaria vaccine, with a funding envelope of \$155.7 million for 2022-2025, marks a new frontier in malaria control. However, supply constraints, high costs, and limited vaccine protective efficacy emphasize that while the vaccine is a monumental step forward, it is not a panacea. Successful implementation and maximum impact will necessitate a nuanced and integrated approach, ensuring it complements, rather than siloes, other malaria control interventions.

Will funding gaps be resolved?

Strong high-level support is critical to ensure maximal impact from available funds, advocacy for additional monies, and openness to alternative financing approaches: but these gaps will hinder malaria control progress

<p>Short term</p>	<p>Longer term</p>
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| <ul style="list-style-type: none"> • SNT will allow countries to appropriately prioritize as per their Malaria strategic plan • Essential case management needs, at GC6 scope and scale, are likely to be covered for the full 3 years. • Existing mitigation measures will go some way to reducing gaps, enabling scale up of the most effective tools, and appropriate strong malaria programming. <ul style="list-style-type: none"> ◦ For example: malaria gap in Nigeria moving from \$332 million to \$90 million. • However, even short-term challenges remain: <ul style="list-style-type: none"> ◦ GC6 scope and scale may not be maintained everywhere ◦ Limits to additional operational efficiencies that can be found ◦ Full coverage of most effective prevention tools (new nets and expanded/extended SMC) will not be achieved – a missed opportunity ◦ National prioritization decisions mean some populations in need may remain uncovered with vector control; elimination activities are underfunded, and vivax responses are limited. | <ul style="list-style-type: none"> • Coverage – of most effective tools and full scope programmes – will need to ramp up to truly reinvigorate progress and enable countries to proactively address resistance. • Better and additional tools and interventions are on the horizon and will come at higher cost – better understanding or relative cost effectiveness to inform evidence-based prioritization and sub national tailoring, will be key. • Limited programming in lower burden areas could bring future problems – further exacerbated by climate instability and population movement • To revive spending power at levels to revive impact: <ul style="list-style-type: none"> ◦ Full scoping of financial need, tailored advocacy plans (as supported by partners) and strong high-level support is needed ◦ Financing efficiencies need to be further explored ◦ Innovative financing approaches, including co-financing, are critical. |
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Will case management challenges be resolved?

Wider partnership is responding but limited funding exacerbates the challenge; it will take time but progress will come.

Short term

Longer term

- Strategies to mitigate are not being employed at speed to make a large difference in GC7 – the partnership is responding – progress will come but will take time.
- Budgets are insufficient for adequate diversification and inclusion of alternative diagnostics, even if demand were strong.
- NextGen Market Shaping SI (~ \$8-10 million for malaria ACTs) has limited ability for large impact – it is useful for short term support but insufficient even for priority countries.

- Lack of consistent surveillance methodologies is hindering the comparability needed to better inform national treatment policies and regional responses, cross partner work is needed.
- Diagnostics: appropriate product options are limited and no product is yet ready to be supported by market shaping. Support to innovation pipeline, especially in endemic countries, is an important longer-term goal.
- Partner-wide market-shaping approaches to drive increased diversification and price reductions will take time and require advocacy and strong coordination.

Will vector control challenges be resolved?

Good progress is being made, but further acceleration is needed; reaching longer term goals requires prioritized support to innovation.

Short term	Longer term
<ul style="list-style-type: none"> • Mitigating actions will speed the scale up of the most effective tools, though not fully. • Better pricing for newer nets comes with challenges to consider value for money decisions on net specifications. • Gaps in coverage resulting from prioritization choices may risk upsurges. • Residual transmission and inability to push coverage to highest levels (last mile challenges) won't be address with current tools, distribution, and funding approaches. • An. Stephensi remains under-addressed. 	<ul style="list-style-type: none"> • The urgent and continued need for new tools in the vector control space: <ul style="list-style-type: none"> ◦ CFP dual ai nets: risk of rise of CFP resistance as the second insecticide (pyrethroid) is not protecting the need ◦ Need for dual NEW active ITNs (combination therapy approach) to mitigate resistance ◦ Need for newer tools beyond ITNs to address residual transmission and potential stephensi-driven urban transmission – work on this is limited due to lack of SI. • Challenges on how to ensure a diverse market base of manufacturers who remain committed to innovation, as this innovation will be needed in the medium to long term.

Stakeholder feedback

Stakeholder feedback on the malaria update underscores the lack of malaria response impact with the malaria burden plateauing and increasing in the highest-burden countries, the gravity of malaria challenges, and the urgency for cohesive action. The malaria community expressed concerns about the trade-offs in grant-making and the potential compromise in the country-led prioritization of malaria interventions due to insufficient funding and misalignment among malaria partners. They emphasized the importance of prioritization of malaria interventions according to national malaria strategic plans and robust health and community systems for effective delivery of malaria tools. They called for innovation, dedicated funding, and sustained focus on getting back on track with the GTS goals.

African stakeholders stressed the significance of local ownership in developing GF FR and country leadership in identifying its needs and priorities per malaria strategic plans, the critical role of health system strengthening, and community engagement in effectively delivering malaria tools. They commended the introduction of innovative tools such as new gen nets and malaria vaccines. They called for a more significant proportion of local manufacturing to address malaria challenges related to malaria drug and insecticide resistance. Concerns were also raised about the behavior-driven gap in the coverage of malaria interventions in certain regions, prompting a need to reassess the type of malaria tools and intervention delivery strategies.

Others highlighted the importance of ensuring that testing and treatment are accessible at the community level and in the private sector, particularly for vulnerable groups. They advocated for efficient product implementation, especially in areas with funding gaps, and underscored the importance of continued surveillance and responsiveness to drug and insecticide resistance.

Malaria technical experts welcome the push and focus of WHO's global malaria programme in operationalizing sub-national tailoring to guide malaria-endemic countries in prioritizing tailored malaria interventions targeting the most in-need populations and highest malaria burden areas.

Several people mentioned the pivotal role of combined efforts of malaria-endemic countries, partners, and all stakeholders in addressing the vast annual funding gap for malaria. They emphasized the interconnectedness of malaria control with broader challenges such as climate change, disaster events, and instability. They called for holistic, multi-sectoral approaches, intensified advocacy, and prioritization of malaria interventions for the highest-burden areas as per country malaria strategic plans.

In conclusion

With the growing challenges, an aligned global malaria partnership approach is more critical than ever to

advocate, innovate, and mitigate to support revived progress against malaria. The recent Strategy Committee Meeting discussed practical strategies and next steps; there's a need to consult all Malaria community stakeholders both at country, regional and Global level. The key to progress lies in blending global inclusive cooperation, strategic planning, innovative mechanisms, revamping the malaria community, including all communities and stakeholders, and evidence-based local action led by malaria-endemic countries. By knitting together innovative solutions and continued advocacy with a thorough and approachable strategy, the global malaria community can sustainably and effectively support malaria-endemic countries and advance towards a malaria-free world.

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