

The Funding Landscape: Implications for deployment of new types of ITNs

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Topline Messages

- Threats to malaria control endanger the ability to sustain progress to date
- Resources to address these threats are limited
- Scale up of Dual AI ITNs is an urgent priority
- But funding, product pricing, and supply capacity remain a barrier
- All partners must work cohesively and strategically to ensure these global public goods are accessible
- Tough choices may be needed during tailoring and prioritization

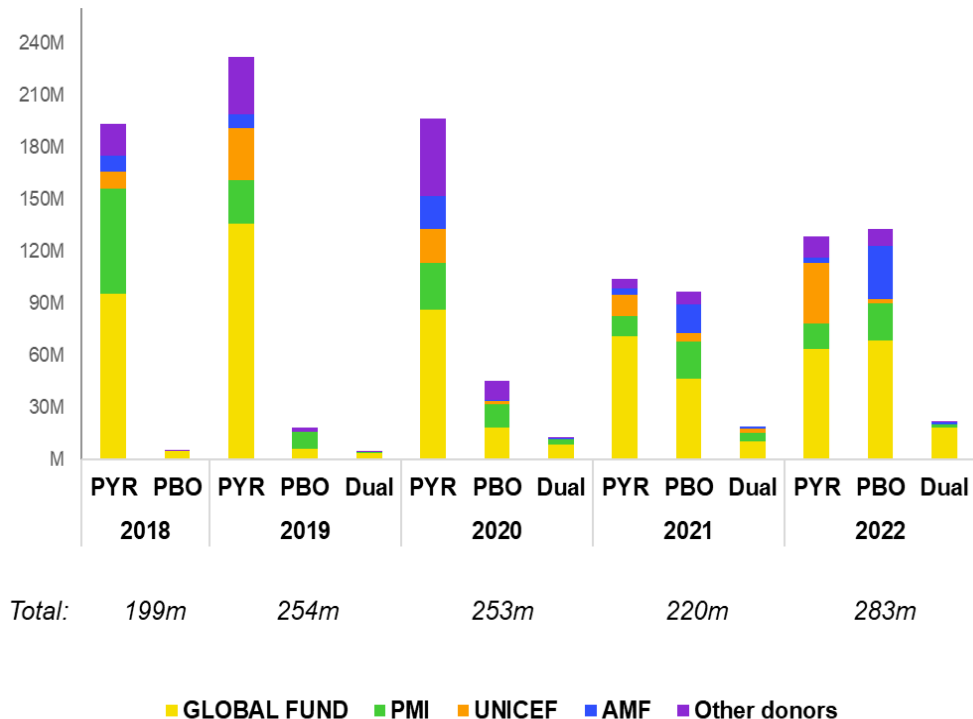
Types and quantities of nets being procured

The Global Fund and PMI now procure **three types of nets**:

- Pyrethroid-only
- Pyrethroid + piperonyl butoxide (PBO)
- Dual active ingredient (AI) nets

In 2022:

- GF thru PPM procured 119m (US\$ 282m) ITNs; 18.4m (13.4%) were dual AIs (PRs paid US\$ 38m for these nets (excl. co-pay)) – does not include non-PPM
- PMI procured 30m ITNs (US \$75m); 2m (7%) (US \$6) of which were dual AIs





Estimated costs and lead times

Global Fund

https://www.theglobalfund.org/media/5861/p_sm_llinreferenceprices_table_en.pdf

Product	Lead time (requisition to central warehouse)
Pyrethroid-only ITN	30 weeks
Pyrethroid – PBO ITN	43 weeks
Dual active ingredient	52 weeks

PMI

<https://www.pmi.gov/resources/technical-documents/>

Product	Lead time (requisition order creation to delivery)
Pyrethroid-only ITN	41 weeks
Pyrethroid – PBO ITN	46 weeks
Dual active ingredient	56 weeks

Update on Dual AI ITN

(WHO recommendations 14 March 2023)

Pyrethroid-chlorfenapyr ITNs vs pyrethroid-only LLINs

Pyrethroid-chlorfenapyr ITNs should be deployed instead of pyrethroid-only LLINs for prevention of malaria in adults and children in areas with pyrethroid resistance.

Strong

For

Pyrethroid-chlorfenapyr ITNs vs pyrethroid-PBO ITNs

Pyrethroid-chlorfenapyr ITNs can be deployed instead of pyrethroid-PBO ITNs for prevention of malaria in adults and children in areas with pyrethroid resistance.

Conditional

For

Pyrethroid-pyriproxyfen ITNs vs pyrethroid-only LLINs

Pyrethroid-pyriproxyfen ITNs can be deployed instead of pyrethroid-only LLINs for prevention of malaria in adults and children in areas with pyrethroid resistance.

Conditional

For

Pyrethroid-pyriproxyfen ITNs vs pyrethroid-PBO ITNs

Pyrethroid-pyriproxyfen ITNs are not recommended for deployment over pyrethroid-PBO ITNs for prevention of malaria in adults and children in areas with pyrethroid resistance

Conditional

Against

- Countries should prioritize pyrethroid-chlorfenapyr ITNs (or, PBO nets) in areas of pyrethroid resistance
- Countries may consider pyrethroid-pyriproxyfen where pyrethroid-chlorfenapyr are not accessible
- Countries with no pyrethroid resistance may continue to order pyrethroid-only nets
- New pre-qualified pyrethroid-chlorfenapyr net expands supplier base
- Market dynamics may lead to price decreases



Market challenges and opportunities

- **New WHO recommendation** is expected to result in higher demand for new net types
- Need to continue **to innovate** and introduce new ITNs
- **Malaria budgets have flatlined** or minimally increased which may hamper uptake of these more effective but more expensive nets
- **Price dynamics** show that the market is sensitive to plastic, crude oil and labour costs
- Dual AI net prices have been supported through **co-payment**
- **Freight costs, inflation, and raw material price increases** may threaten access to ITNs
- **Regional manufacturing** can relieve some of the logistics issues, contribute to supply diversification, and to the development agenda in LMICs
- Greater global focus on **addressing climate change** and reducing carbon footprints encourages practices and policies to reduce environmental impact



Market shaping interventions for improved access and affordability to Dual AI nets

- Partnership between the Global Fund, Unitaaid, and PMI supported **early introduction** of and **evidence generation for new Dual AI nets**.
- Global Fund leveraging NextGen Market Shaping partnerships to establish mechanisms for **special contracting arrangements with suppliers**
- Global Fund and PMI continue to work with countries to develop optimal national malaria ITN coverage plans.



Considerations during grant development

- For countries with pyrethroid resistance where funding levels limit the ability to procure effective nets for all areas:
 - Prioritize deployment of pyrethroid-chlorfenapyr nets in any areas previously them
 - Prioritize deployment of pyrethroid-PBO or pyrethroid-chlorfenapyr nets in any areas previously receiving PBO nets.
 - Then, expand dual AI or PBOs nets in areas that previously received pyrethroid-only ITNs as far as funding allows.
 - See GMP prioritization: <https://apps.who.int/iris/rest/bitstreams/1493656/retrieve>
- Any countries with pyrethroid resistance procuring pyrethroid-only nets should include price differential to 'upgrade' to a PBO or Dual AI net in the PAAR.
- Given durability issues, some countries are proposing additional distribution channels or more frequent campaign cadence
- Some countries are proposing to transition from IRS; a robust exist strategy is needed



Potential scenarios

- **Sustained coverage scenario (most likely):** maintaining the same geographic coverage with pyrethroid-PBO nets or pyethroid-chlorfenapyr nets
- **Scale up scenario:**
 - **Complete scale up (unlikely):** Countries switching the previous PBO/CFP areas to full CFP ITNs
 - **Partial scale up (more likely):** Countries switching previous PBO areas to some CFP
- **Scaled down scenario (unlikely):** GF and PMI guidance is that countries not revert their previous CFP/PBO areas to pyrethroid-only ITNs
- In addition to ITN product selection, scenarios on addressing ITN durability as well as sub-nationally tailoring implementation strategies to optimize coverage and use



Key Takeaways

- Global Fund and PMI agree on the importance of protecting high/moderate burden populations with nets and not leaving populations unprotected
- Global Fund and PMI stress the importance of entomological monitoring
- Countries are encouraged to deploy the most effective net, tailoring sub-nationally as appropriate
- Countries should prioritize pyrethroid-PBO or dual AI ITNs – pyrethroid-chlorfenapyr nets by preference - in areas that previously received them
 - It is not recommended that countries revert back to standard nets