

Overview of SMC

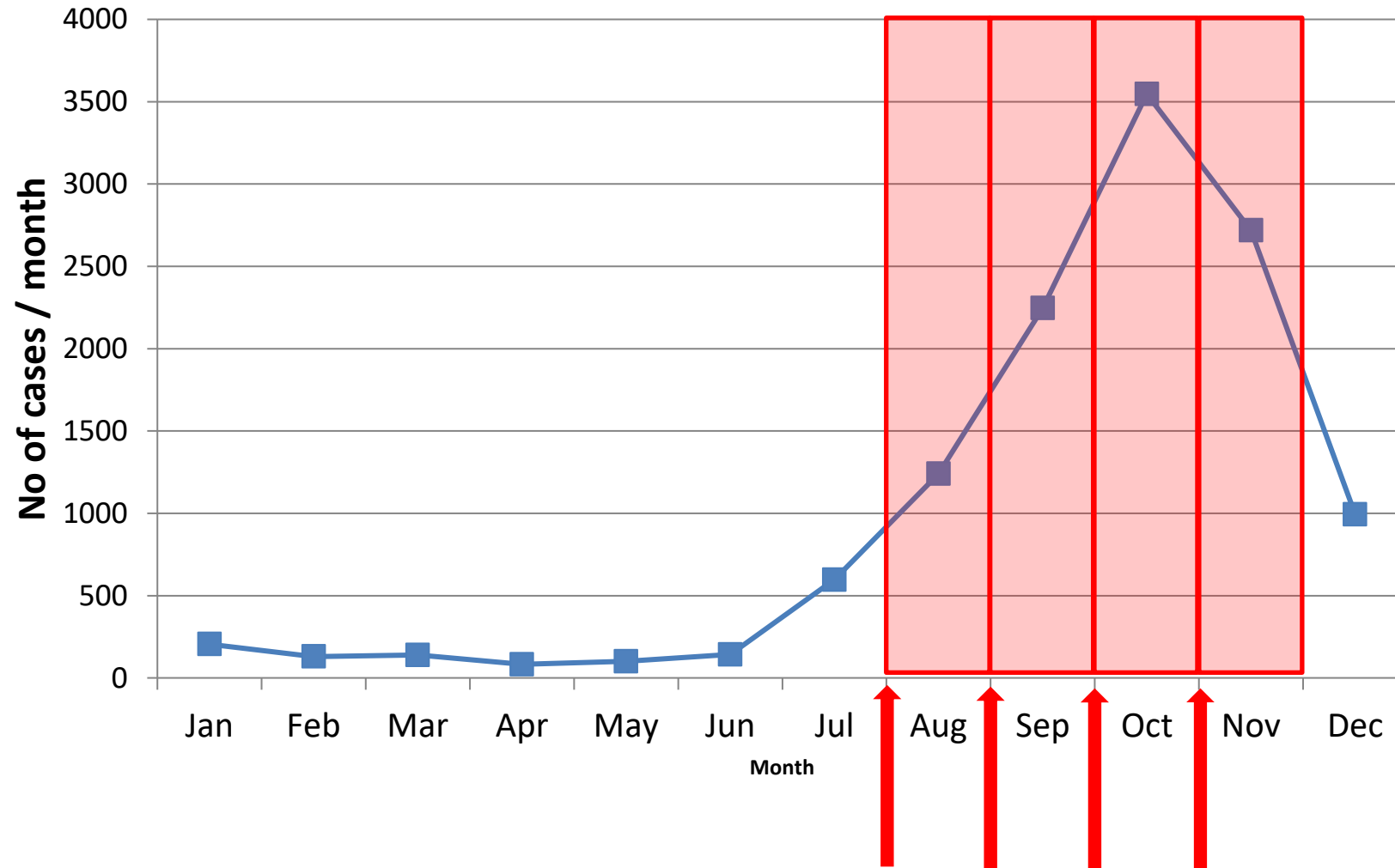
Target population, eligible geographic area, model of delivery,
integration with other preventive measures

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SMC: Seasonal Malaria Chemoprevention

- is the intermittent administration of a **curative dose of antimalarial** medicine during the malaria season, regardless of whether the child is infected with malaria.
- to establish **antimalarial drug concentrations** in the blood that clear existing infections and prevent new ones during the period of greatest malaria risk.
- is recommended in areas of **seasonal** malaria transmission, where **60%** of yearly malaria cases are concentrated within 3-4 months of the year.

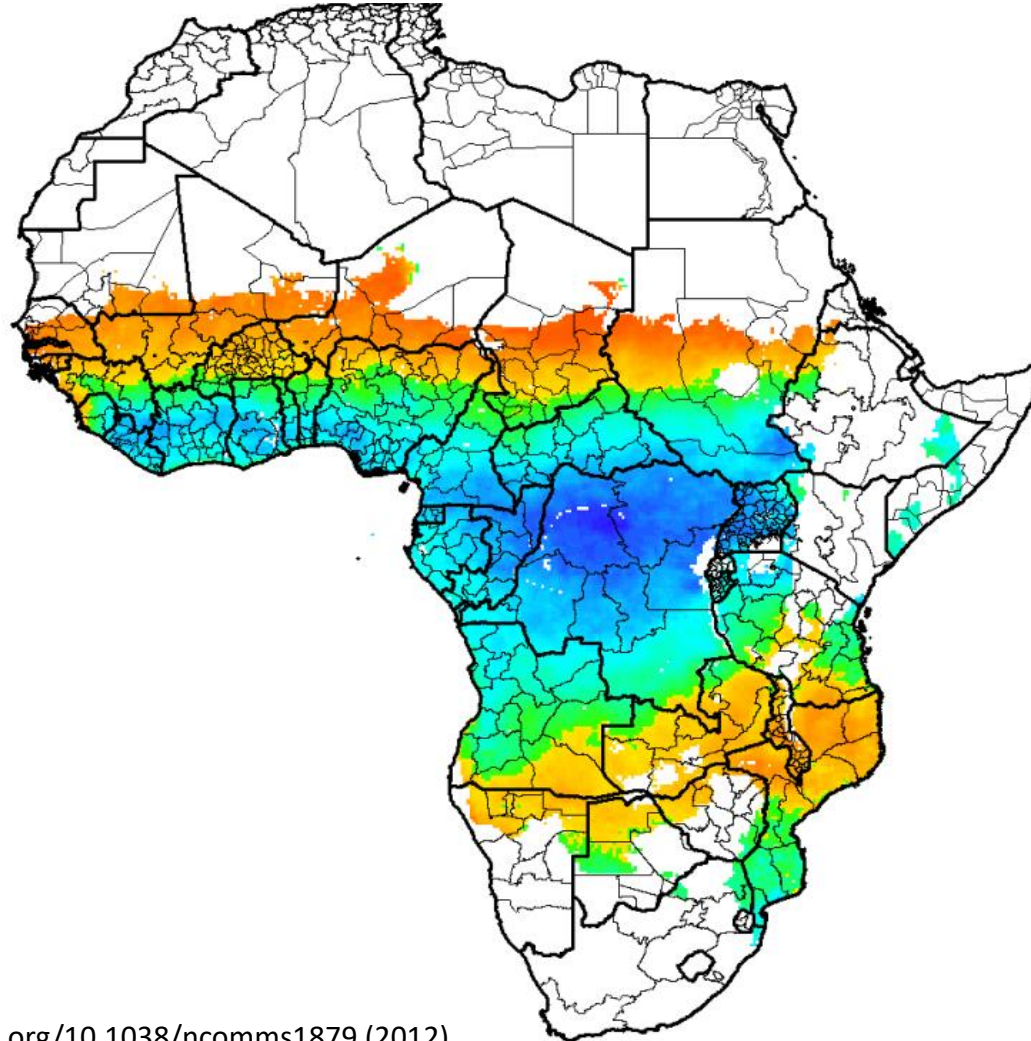
Illustration of SMC administration schedule



Areas suitable for SMC

**Seasonality -
60% rainfall in 3 months**

**Incidence –
> 0.2 episodes per child
per year**



**Highly
suitable**

Not-suitable

Evolution of SMC recommendations

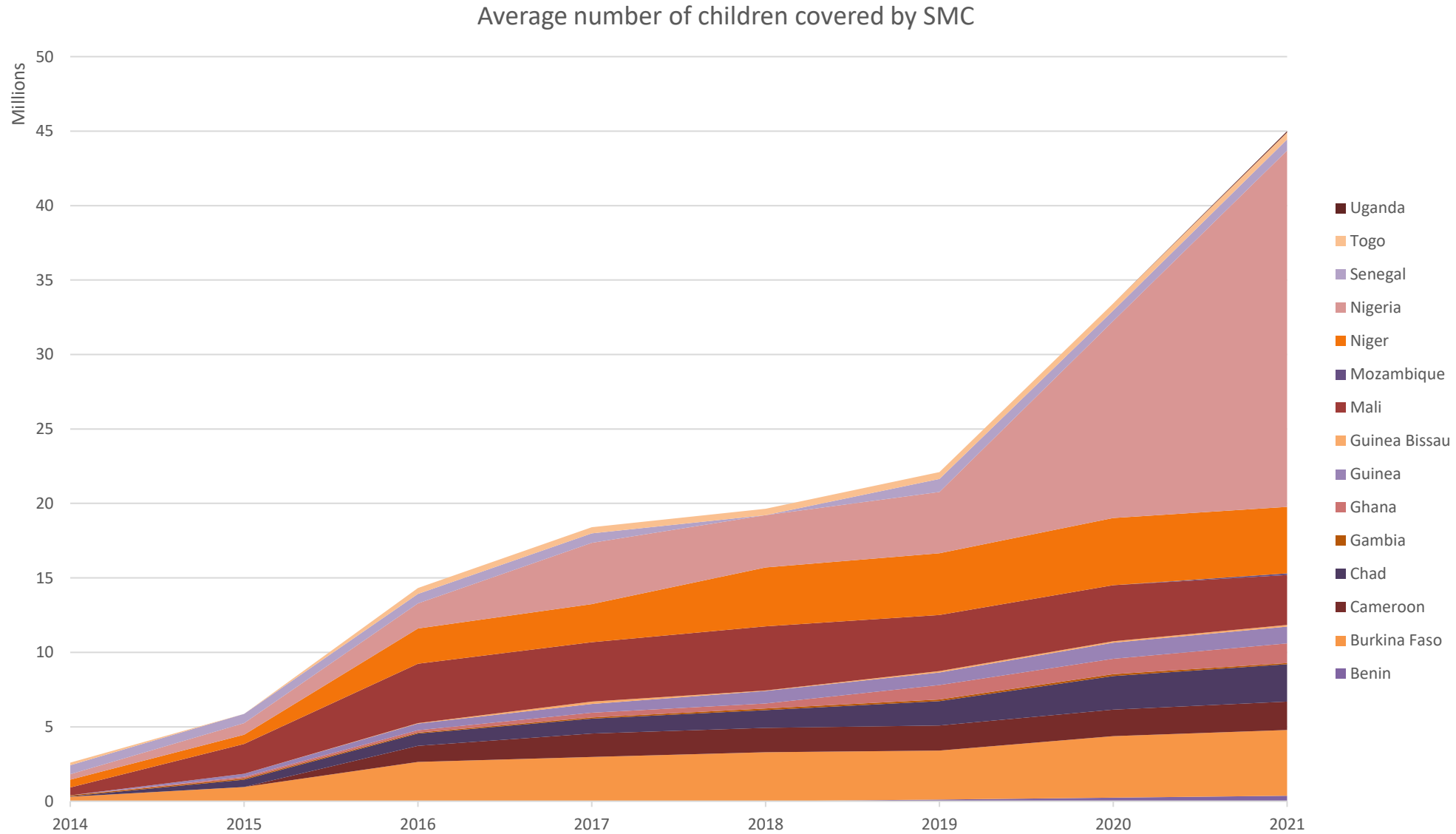
Original recommendation – 2012	Updated guidance 3-Jun-22
In areas of seasonal malaria transmission , children belonging to age groups at high risk of severe malaria should be given antimalarial medicines during peak malaria transmission seasons to reduce disease burden.	
<i>No more geographic restrictions / transmission intensity thresholds</i>	
Restricted SMC use to the Sahel sub-region of Africa	Countries in other parts of Africa with highly seasonal variation in malaria transmission could also benefit from SMC
<i>Numbers of doses or cycles no longer specified</i>	
A maximum of 4 monthly doses of SMC during the malaria transmission season.	The number of cycles should be informed by the duration of the high-transmission season, based on the local malaria epidemiology , and the length of preventive efficacy of the selected drug combination
<i>Specific drugs no longer recommended</i>	
A complete treatment course of AQ+SP should be given to children 3 – 59 months at monthly intervals	A combination medicines for SMC that is different from that used for first-line malaria treatment. Safety and efficacy have been evaluated for several other drug combinations, but the lack of widescale implementation means that fewer data are available on the potential risks of cumulative toxicity and impact on drug resistance.
<i>More flexibility in recognizing age-based risk among children</i>	
Restricted SMC use to children less than 5 years of age	The age group targeted for SMC should be informed by the local age pattern of severe malaria admissions.

SMC Administration

- Campaign mode for a week within 3 to 5 consecutive months (considerable logistic and planning ahead)
- Using community health workers / volunteers
- Door to door for better coverage
- DOT for 1 or 3 doses for more effectiveness
- Coupled with other public health interventions



Trend in SMC



Thank you