

Antenatal Care Client Segmentation PMI 5.11

Report on the Secondary Analysis of Malaria Behavior Survey Data in Three Countries





Content of this Report



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Context and Objectives (4–8)







Malaria in pregnancy (MiP) is a major health problem with critical risks for mothers and their babies

A pregnant woman has an increased risk **(up to four times)** of getting malaria and **two times the chances of dying** from malaria

Each year, MiP is responsible for



of **stillbirths** in sub-Saharan Africa

11%

of all **newborn deaths** in sub-Saharan Africa

10,000

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Maternal outcomes of MiP

- Maternal anemia
- Cerebral malaria
- Severe malaria
- Maternal mortality
- Recurrence of
 malaria infections

Child outcomes of MiP

- Spontaneous Abortion
- Stillbirth
- Preterm delivery
- Low birth weight
- Neonatal mortality
- Congenital malaria
- Anemia
- Poor developmental/ behavioral outcome









and perceptions that could prevent treatment completion.

Context and

Objectives

treatment once diagnosed

facility

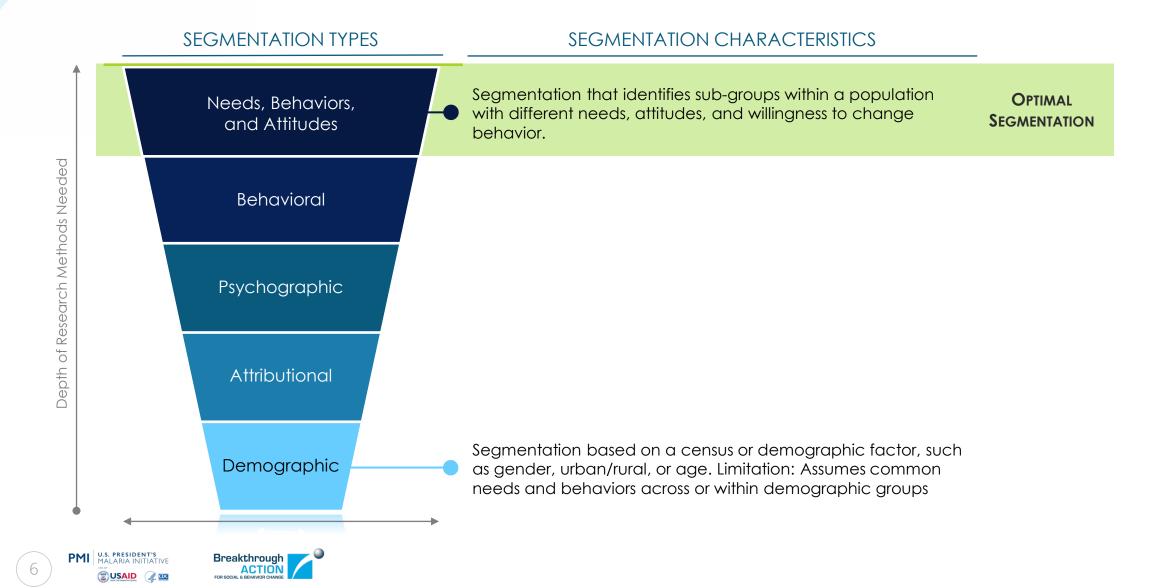
diagnosis



ACTION

Segmentation can be used to understand factors surrounding the ANC experience and develop tailored interventions to reduce MiP prevalence





Objectives



Understand key drivers of ANC clients' attitudes, needs, and behaviors. Conduct a **segmentation analysis** and identify opportunities to influence positive behavior change for each segment.

Share the segmentation with country of implementation partners and identify programmatic use cases and opportunities

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Our approach



•-	Dec. 2021–Jan. 2022 Phase I Understanding ANC care-seeking	FebApr. 2022 Phase II Identifying ANC client sub-groups	AprAug. 2022 Phase III Building a tailored counseling tool	SeptOct. 2022 Phase IV Validation and Dissemination
PURPOSE	Identify key determinants of ANC care-seeking	Understand ANC clients and group them based on their behaviors, perceptions, norms, and attitudes	Develop a counseling tool for providers to improve and tailor MiP ANC services and hence augment provider- client interactions	Ensure relevance of tool in local context and refine further as needed
ey Elements	 Analyzed questionnaires for three countries. Merged countries datasets and data analysis to identify ANC care seeking determinants. Conducted secondary analysis of determinant variables. 	 Ran and iterated on latent class analysis on merged dataset. Discussed/confirmed hypothetical segmentation. Collected feedback and insight from local stakeholders in one country. 	 Defined identification criteria and questions. Built profiling tool and counseling cards. 	 Discussed and integrated final feedback from stakeholders. Dissemination with stakeholders. Final PMI dispatch.

Quantitative Analysis and Findings (10–22)

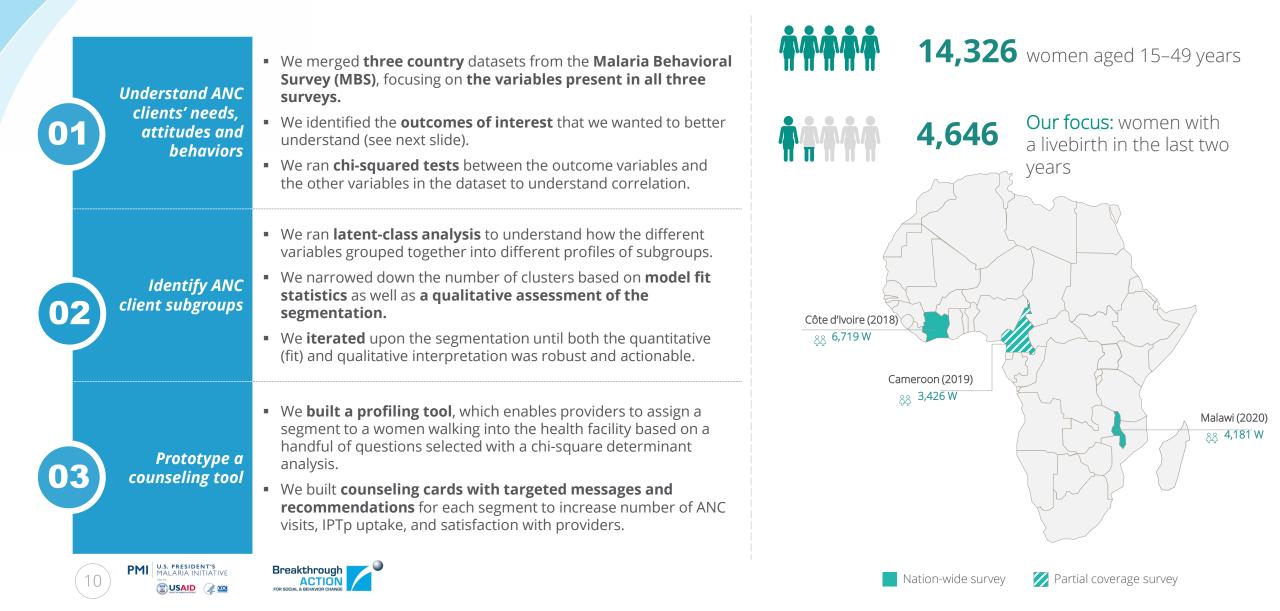




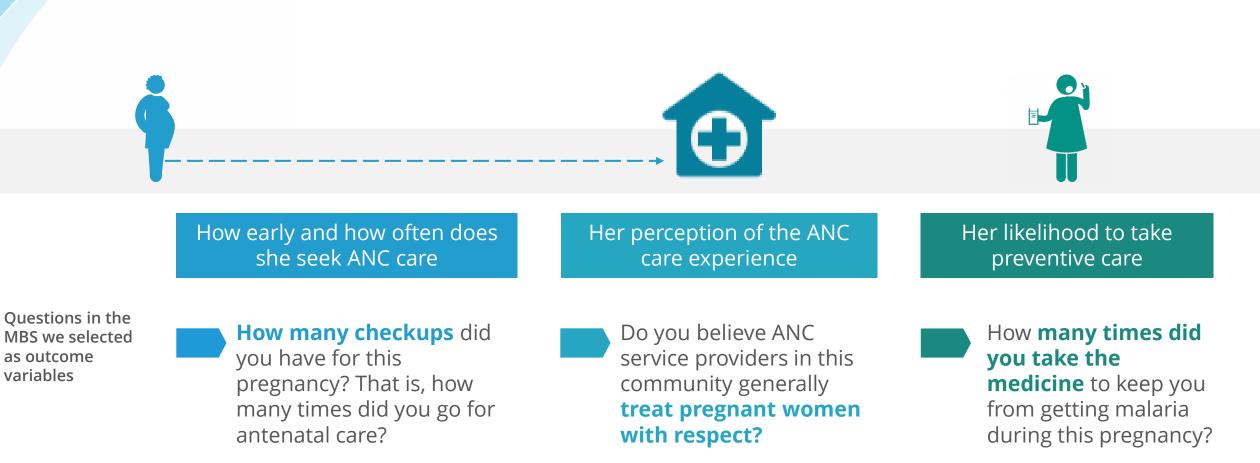


Methodology and Geographic Focus





We focused on three outcome variables to better understand women's ANC experience



Quantitative

Analysis & Findings

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PMI U.S. PRESIDENT'S MALARIA INITIATIVE USAID @ III OF ACTION FOR SOCIAL & BEHANDIN CHANGE Several themes emerged that drive a women's experience with ANC during their pregnancy

Trust in ITNs and Treatment

- Women who have **positive attitudes toward ITNs** are more likely to regularly seek ANC.
- Women with high trust in treatment drugs, especially the ones coming from health facilities, also showed higher preventive care adherence and more satisfaction with ANC visits.

Spouse/Partner Influence

 Spouses/partners showed a significant influence in women's behaviors. Women who **discuss ANC with their husband** and who feel **their opinion is valued** in those discussions are more likely to take IPTp three or more times (IPTp3+).*

Quantitative

Analysis & Findings

• Women who **make decisions jointly with their spouses** are also more likely to attend more ANC visits.

Social norms

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- Women who believe other people don't use ITNs in their community are more likely to take IPTp3+.*
- Women **not prioritizing their children based on their gender when using nets** tend to have more ANC visits (more than four) and to follow more preventive care recommendations (IPTp3+).*

Breakthrough ACTION

Perception of Health workers

- Women who **doubt the abilities of community health workers (CHWs)** are less likely to attend the recommended four ANC visits. However, they are more likely to take recommended preventive medicine (IPTp3+).*
- Women who **believe they will pay out of pocket** for preventative medicine are less satisfied with the ANC visit.

Our segmentation analysis revealed five groups of women who have specific attitudes and behaviors regarding ANC and IPTp

We built the following stories based on the key drivers, biases, and behaviors of each segment. These stories were refined based on stakeholder experiences during in-country workshops and dissemination.

Active Modernists (36%*)	Unhurried Informed (33%)	Cautious Moderates (10%)	Uncertain New Mothers (12%)	Seldom Adopters (10%)
"My spouse and I are aware of ANC benefits during my pregnancy. I go to ANC early and as many times as I can, as do other women in my community."	<i>"I know ANC is useful but I'm not in a hurry to go to my first visit. I'm less convinced about IPTp."</i>	<i>"I discuss</i> <i>key decisions with</i> <i>my spouse, such as</i> <i>going to ANC</i> <i>visits. I'm not too</i> <i>worried about</i> <i>malaria, and people</i> <i>in my community</i> <i>don't really go to</i> <i>ANC visits."</i>	<i>"I'm a single mother. I don't have much experience with ANC providers but I'm not sure they will treat me with respect."</i>	<i>"My partner generally decides for me. I don't go to ANC visits or take IPTp."</i>

Quantitative

Analysis & Findings

*The percentages reflect the average portion of the segment across 3 countries.

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Distribution of the segments by country

02 Quantitative Analysis & Findings

	Cameroon	lvory Coast	Malawi	Programmatic implications
Active Modernists	36%	45%	21%	Countries should consider focusing on the four main
Unhurried Informed	39%	26%	34%	segments present in their geographies
Cautious Moderates	3%	1%	31%	O Note: Malawi
Uncertain New Mothers	8%	17%	12%	Note: Malawi stakeholders additionally desire to focus on the Vulnerable Unawares (~3% in Malawi), as they are a
Vulnerable Unawares	15%	12%	3%	particularly high- risk population in Malawi.



Five segments stand out from our analysis Summary of each segment characteristics by outcome variable

		Active Modernists	Unhurried Informed	Cautious Moderates	Uncertain new mothers	Vulnerable Unawares
Statistically higher than all other segments Segmenting variables	Average	(36%) Action-oriented; well-informed	(31%) Laid-back; aware	(10%) Unconvinced; awakening	(13%) Systemically barred; Influenceable	(10%) Lack of agency; uninformed
How many times did you go for antenatal care?	0 12%	0%	0%	0%	16%	99%
	1-3 20%	0%	43%	37%	25%	0%
	4 24%	0%	57%	32%	20%	0%
	5+ 44%	99%	0%	30%	39%	0%
How many times did you take the medicine to keep you from getting malaria?*	0 19%	16%	17%	4%	20%	55%
	1-2 33%	28%	39%	45%	35%	16%
	3 27%	28%	28%	30%	26%	17%
	<u>4+</u> 21%	27%	16%	22%	19%	12%
ANC providers in this community generally treat pregnant women with respect	agree 83%	86%	85%	88%	68%	78%
di	sagree 13%	12%	13%	10%	11%	14%
un	certain 5%	2%	2%	2%	20%	8%

Identifying ANC client subgroups

02

* During pregnancy



Five segments stand out from our analysis Each segment has specific drivers and biases towards ANC and IPTp

			Active Modernists	Unhurried Informed	Cautious Moderates	Uncertain New Mothers	Vulnerable Unawares
stically higher (95% CI)			(36%)	(31%)	(10%)	(13%)	(10%)
stically lower (95% CI)	No. ANC vi	sits (0, 1–3, 4, 5+)	0%_0%_0%_99%	0% 47% 53% 0%	0% 37% 32% 30%	16% 25% 20% 39%	99%_0%_0%_0%
nting variables	No. IPTp tak	(0, 1–2, 3, 4+)	16% 28% 28% 27%	(17%) 39% (28%) (16%)	4% 45% 30% 22%	20% 35% 26% 16%	55% (16%) (17%) (12%)
	Providers treat pregnant women	n with respect**	86% (12%) 2%	85% (13%) 2%)	88% 2%	68% 11% 20%	86% (2%)
		Average	Action-oriented; well-informed	Laid-back; aware	Unconvinced; awakening	Unmarried; steadily barred; Influenceable	Low agency; uninformed;
Have ever discusse	ed going to ANC visit with her spouse	63%	76%	72%	88%	n/a	50%
Have never discusse	ed going to ANC visit with her spouse	23%	23%	27%	12%	n/a	50%
	Makes decision to go to ANC visit	18%	21%	20%	26%	n/a	17%
Spou	use makes decision to go to ANC visit	33%	41%	40%	14%	n/a	48%
Makes the decision join	tly to go to ANC visit with her spouse	35%	37%	39%	58%	n/a	33%
Believe most women in her o	community go to at least 4 ANC visits	54%	66%	56%	4%	52%	56%
Believe fewer than half of wome	en in her community go to ANC visits	11%	8%	10%	22%	9%	15%
Believe health workers will send	her away if she goes w/o her spouse	20%	9%	10%	94%	16%	19%
Is not worried about ma	alaria because it can be easily treated	37%	31%	31%	79%	38%	37%
Believes ITN does n	ot reduce chances of getting malaria	30%	32%	31%	29%	31%	38%
Believes a woman s	hould wait before going to ANC visit*	41%	38%	45%	35%	41%	47%
Believes a blood test is the only	/ way to know if a person has Malaria	90%	90%	88%	97%	90%	65%
	Residence type	Urban Rural	Urba 48%	Rural 67%	Rural 88%	Rural 62%	Rural 85%
f she thinks she may be pregnant	** Agree/Disagree /Uncertain	35% 64%					

Segmentation Analysis & Findings

* Even if she thinks she may be pregnant

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statistically higher (95% CI) statistically lower (95% CI)

Segmenting variables



Five segments standout from our analysis Summary of each segment's behaviors, drivers, and biases

1. Spouse/Partner Influence

Represents spousal influence in decision making regarding going to ANC visits (*higher = less autonomy to make decision on her own*)

2. Social Norms

Perception of how many women in the community take preventative care and go to at least four ANC visits (higher = believe more women goes to ANC and take IPTp

3. Trust in ITNs and Treatment

Represents trust level in ITNs and/or preventive /treatment drugs coming from the health facility (higher = greater trust)

4. Perception of Health Workers

Represents the perception of health workers at the facility (*higher = more positive perception of health workers*)

5. Perception of Malaria

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Represents perception of gravity of malaria care and how easily it can be treated

(higher = greater awareness of malaria risk)

Perception of Health Workers

Perception of Malaria



Social Norms

Quantitative Analysis & Findings

Trust in ITN and Treatment

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Active Modernists (36%)

02 Quantitative Analysis & Findings

Key Segment Characteristics	 Demographics More likely than any segment to live in urban areas. More likely to be between 25 and 40 years old. 	 Attitudes & Beliefs Believes women go to four or more ANC visits. Mostly positive perception of providers. Mixed feelings about the threat of malaria, but adhere to ITN, 	 Behavior Likely to discuss ANC with spouse (76%). Attend four or more ANC visits. Despite high number of ANC visits, IPTp uptake remains low. 	S	60% 18% pouse fluence
Behavior Change Opportunities	 accepting IPTp during offered. Continue campaigns highlighting how other Leverage this group's icircles. Encourage this 	ess benefits of preventive g subsequent visits and re focused on benefits of IP rs seek early ANC and requ nfluence on their family me subset of women to beco and frequent ANC attenda	equesting it if it is not Tp during pregnancy est/take IPTp. embers, peers, and social ome community	Perception of Malaria Perception of Health Workers	Social Norms Trust in ITN and Treatment

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Unhurried Informed (33%)

02 Quantitative Analysis & Findings

Key Segment Characteristics	 Demographics Two-thirds are rural. Two-thirds are 25-40 years old. 	 Attitudes & Beliefs Believes women go to four or less ANC visits. Mostly positive perception of providers. 	 Behavior Likely to discuss ANC visit with spouse. Attend one to four ANC visits, but no more. IPTp usage is low to moderate, rarely completes series. 	27%	40% 32% Spouse Influence
Behavior Change Opportunities	 access IPTp and preven Providers should empled dosage when counseliattending ANC later in is preventive. Encourage spouse to 	nasize the importance of c ng ANC patients and the ι pregnancy, stressing the	completing full IPTp argency for those fact that the medicine n attending early ANC in	Perception of Malaria Perception of Health workers	Social norms Trust in ITN and treatment

PMI U.S. PRESIDENT'S MALARIA INITIATIVE Breakthr



Cautious Moderates (10%)

02 Quantitative Analysis & Findings

Key Segment Characteristics	 Demographics Mostly rural (88%). Mixed ages. 	 Attitudes & Beliefs Believes other women sporadically seek ANC visits and IPTp care. Believes she will be sent away from ANC without her spouse. Believes malaria is easy to treat. Mostly positive perception of providers. 	 Behavior Discusses going to ANC visit with spouse more than any other group. Attends only one (or more) ANC visit. IPTp usage is low to moderate; rarely completes series. 		3% 91%
Behavior Change Opportunities	 to improve perception Identify positive devi husbands but who ma common barriers) and other women who ide Target spouse to sup 	roups to share their ANC behave of norms. ants (for example, women who nage to attend ANC early and fr draw attention to the example notify with them in terms of socia port ANC visits and the benefin natial in Malawi, where a spouse	may not have progressive equently despite these they set, particularly among l or economic status. ts of IPTp while addressing	Perception of Malaria Perception of Health Workers	Social Norms Trust in ITN and Treatment

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Uncertain New Mothers (12%)

Quantitative Analysis & Findings 02

 Behavior Change Opportunities Develop targeted messages to reach newer, single mothers to reinforce knowledge on the importance of preventive measures for the health of the mother and child. Adapt these messages to be delivered by people close and trusted by her in the community (family members, peers, and social circles). Incentivize and/or encourage providers to treat newer, single mothers with respect and empathy during ANC visits. Ensure the benefits of early and frequent ANC are explained during this important and likely formative first visit. 	Key Segment Characteristics	 Demographics Two-thirds are rural. More likely to have had one previous livebirth than two or more. Typically single mothers: Never married, widowed, or separated. Mixed ages. 	 Attitudes & Beliefs Believe women go to four or less ANC visits. More neutral perception of providers 	 Behavior Attend one to four ANC visits, but no more. IPTp usage is low to moderate; rarely completes series. 	13%	61% 26% Spouse Influence
	Change	 to reinforce knowledge health of the mother a by people close and the peers, and social circles Incentivize and/or encomit with respect and emp Ensure the benefits of the benefits	e on the importance of pre- nd child. Adapt these me rusted by her in the comm s). Durage providers to treat r Dathy during ANC visits . early and frequent ANC are	ventive measures for the ssages to be delivered nunity (family members, newer, single mothers	of Malaria	Norms

Vulnerable Unawares (10%)

02 Quantitative Analysis & Findings

DemographicsAttitudes & BeliefsBehaviorTwo-thirds are rural.Believes ITNs areLess likely to		
 Two-thirds are rural. Believes ITNs are Less likely to 		
Key Segment CharacteristicsLeast likely to recognize former mass campaigns for ANC and IPTp than any other group.not useful to prevent malarial about malarial threat.Spouse decides on ANC more than any other group.34%Key Segment CharacteristicsMixed feelings about malarial threat.Spouse decides on ANC more than any other group.34%	Spouse Influence	
 Behavior change opportunities Build community knowledge and attitudes around prevention of malaria during and after pregnancy for the health of the entire family. Explore other barriers to knowledge and access that may be impacting this group disproportionally relative to others. 		Social Norms Trust in ITN and Treatment

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Counseling Tool Testing and Findings (24–30)







Programmatic intervention: Counseling tool to support providers

- We developed a counseling tool to be **used by the provider** at the start of each counseling session.
- The counseling tool includes a **profiling tool to identify which client segment** the provider is talking with.
- After the segment is identified, a short **empathy-based discussion** follows.
- The counseling tool has segmentspecific messages targeted to each woman to guide the provider in addressing the relevant barriers.
- The counseling tool comes as a written guide and in card format.

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Enable providers to better understand the background of each client



Providers focus on most relevant factors for the women



Easy to scale in low-resource context



We conducted a workshop in Malawi with key stakeholders to test the segmentation analysis and the counseling tool





Four national-level leaders

- Two National Malaria Programs (NMPs), including the national head of Malawi's National Malaria Control Program.
- One Reproductive Health Directorate (RHD) representative.
- One Development Aid from People to People representative.

Eight health providers in the Salima district

- Five midwives/nurses.
- Two health service assistants.
- One health promotion officer.



Two-day workshop



Presentation of **segmentation results** and the **counseling tool**



Six role-play sessions enacting tool use in a **facility context**



Two rounds of written feedback on tool integration





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Overall, providers recognized all segments and were able to recall women they counseled before that matched each segment.

Active Modernists	Some women eager for pregnancy may seek ANC prior to being pregnant in order to clarify pregnancy status.
Unhurried Informed	Women may not be in a rush as they don't believe that ANC clinics are equipped (i.e., pregnancy kits).
Cautious Moderates	Some women don't take the symptoms of malaria seriously and thus do not seek care in a timely manner.
Uncertain New Mothers	Women may deny their pregnancy at first, thus delaying early ANC attendance.
Vulnerable Unawares	Women may have ANC experience from previous pregnancies, and don't see the value or added benefit of going.



Counseling Tool

Testing and Findings

In addition to the original drivers, stakeholders uncovered additional factors that influence pregnant women's ANC and IPTp behaviors

Factors uncovered during MBS data quantitative assessment

1. Spouse/Partner Influence

Represents spousal influence in decision making regarding going to ANC visits

2. Social Norms

Perception of how many women in the community take preventative care and go to at least four ANC visits

3. Trust in ITNs and Treatment

Represents trust level in ITNs and/or treatment drugs coming from health facility

4. Perception of Health Workers

Represents perception of health workers at the facility

5. Perception of the Risk of Malaria

Represents perception of gravity of malaria for pregnant women

Additional factors uncovered during stakeholder testing

Uncertainty of the pregnancy outcome

Early in the pregnancy, when there is still a risk they might lose the baby, some women view ANC attendance as a public announcement of their pregnancy and do not want to attend.

03

Traditional or religious beliefs Some women do not take or adhere to IPTp, as some believe it may cause abortion or negatively impact the pregnancy.

Fear of side effects

Some women reported having nausea after taking preventative medication, especially on an empty stomach.



Counseling Tool

Testing and Findings



 Key Opportunities Include Facilities are a prime location to administer counseling and disseminate anti-malarial materials (i.e., IPTp, general malaria messages, positive stories) to target population. The presence of health personnel and programs in local communities creates infrastructure for community-level rollout. The potential use of secret mothers* in the community to administer tool to pregnant women.
Key Barriers 1. Facilities can be overcrowded and understaffed, and the time allocated to ANC is generally limited. 1. Limited human and financial resources to support tool rollout. 2. The lack of supervision and training for health personnel may translate to improper administration of counseling tool. 1. Limited human and financial resources to support tool rollout. 3. Counseling will not be as effective for women that attend ANC late in their third trimester. 1. Limited human and financial resources to support tool rollout.



03 Counseling Tool Testing and Findings

	At the Country-Level	Through Ministry of Health Programs	Other Partner Initiatives
Key Opportunities Include	 The opportunity to build capacity for health workers to administer tool. National infrastructure and oversight could support roll-out for tool in facilities across Malawi. 	 The tool may be implemented by integrating with other maternal and child health initiatives, such as HIV Prevention of Mother-to-Child Transmission programs that already have the infrastructure to reach pregnant women. 	 The opportunity to share with other implementing partners and consider if some are oper to jointly or solely implementing this tool to achieve their objectives.
Key Barriers Are	1. Procuring funding to scale the intervention.	 Staffing limitations due to shortages or overworked health personnel. Inadequate resources or support for local MoH programs (e.g., Health surveillance assistants have too much activities to cover). 	 Generating buy-in from another implementing partners. Procuring the resources to manage a collaboration with an implementing partner.





On Segmentation Results

- Overall, providers recognized all segments and were able to identify women they counseled before that aligned to each segment.
- Providers provided additional insights and perspectives to the quantitative findings for each segment.

On the Counseling Tool

- Providers has positive responses to the tool and found it simple to use after minimal training.
- After becoming familiar with it, they could complete the counseling process in as little as 10 minutes.
- Stakeholders noted that to be most effective, the counseling tool should be utilized at the first ANC visit. They also noted that a follow-up discussion should occur in follow-up visits, particularly for the highest risk segments.
- Providers recommended light edits to certain phrases in the counseling tool, which were included in the final version.

On Integrating Them

Counseling Tool

Testing and Findings

- Stakeholders stated desire for a two-pronged tool rollout.
- NMPs pushed for the tool to also be used at the community-level to reach women who delay seeking ANC, so they may still be identified and advised early in their pregnancies.
- NMPs and RHDs are interested in piloting tool at the community level within the safe motherhood initiative. Further background on the initiative can be found in the appendix.



Recommendations (32–33)











Pilot the tool at the **facility level** to **increase ANC attendance** and **IPTp3+ uptake** for the Active Modernist, Unhurried Informed, and Cautious Moderate segments.



Pilot tool at **community-level** to **reach** the **Vulnerable Unawares** and **Uncertain New Mother** segments as early as possible in pregnancy.





Based on previous pilot testing and a segmented counseling card evaluation, below are recommendations regarding ...

Pilot Design

- If possible, implementers could design initial piloting and could compare chosen parameters against a "control group" (i.e., a number of facilities or communities).
- After training, and if budget permits, having a "coach" for the pilot site providers for the first three to four months would be beneficial:
 - This person would visit the pilot sites in rotation to observe the counseling sessions and answer any questions that the providers might have.
 - The coach would fill out an evaluation based on their observations, and these learnings can be used to improve counseling sessions.
- If implementers can ensure the provider's supervisors are trained on the tool, the providers who wish to continue using it after the end of the pilot will be able to receive support.

Evaluation Tool

- Client exit surveys are one potential avenue; however, clients often give an overly positive rating (in both control and pilot sites) while still at the facility. To reduce this effect, evaluators could conduct the exit interview after the provider interaction.
- Here are ways to test if the client was segmented correctly:
 - During the evaluation, the provider will give her clients a colored card to let the evaluator know which segment she belongs to.
 - The evaluation survey will then ask the client which messages were relayed to see if the correct segment–specific messages were relayed.
- Other survey questions should include the client's appreciation of the counseling interaction (e.g., felt listened to, trusted the provider), her understanding of the health advice provided to her, and her motivation to attend additional ANC visits and take IPTp.



Appendix





Summary of quantitative findings: Our early learnings Outcome variable #1: Women attending regular ANC

		How many checkups did you have for this pregnancy? That is, how many times did you go for antenatal care? (N = 4,201)			
•	 Statistically significant (CI 95%) for the three countries Surprising finding, 		Exactly 4 visits (26%)	More than 4 visits (48%)	Especially true for
	Q503b. Thinks ITNs are not safe to sleep under	•			-
Insecticide-	Q507. Perceives ITN as the best way to avoid malaria 🔶	•	•		
Treated Nets (ITNs)	Q511. Believes that most people in her community who have ITNs use them every night			٠	
	Q809. Does NOT prefer her female children to sleep under ITN over her male children			atal care? (N = 4,201) More than 4 visits	0
	Q601. Knows she should seek ANC care as soon as she knows she is pregnant			•	
Proventive	Q610. Believes a pregnant women should take several doses of SP to prevent malaria 🔶	•	•		
(ITNs) Preventive Treatment (IPTp/SP)	Q621. Takes the decision alone to go for an ANC visit	•			
(1210/22)	Q621. Takes the decision jointly with her spouse to go for an ANC visit		•	More than 4 visits	
	Q627. Feels her spouse valued her opinion during discussion on ANC		•		
Caro Socking	Q706. Believes that blood test is the only way to detect malaria		•	enatal care? (N = 4,201) More than 4 visits	0
and	Q708. Trusts that treatment drugs received from the health facility are effective			٠	
Treatment	Q714. Able to find the money for recommended treatment medication			enatal care? (N = 4,201) More than 4 visits	O
Treated Nets (ITNs)Q511. Believes that most people in her community who have ITNs use them every night Q809. Does NOT prefer her female children to sleep under ITN over her male childrenCommunityQ601. Knows she should seek ANC care as soon as she knows she is pregnantQ601. Knows she should seek ANC care as soon as she knows she is pregnantQ610. Believes a pregnant women should take several doses of SP to prevent malariaQ621. Takes the decision alone to go for an ANC visitQ621. Takes the decision jointly with her spouse to go for an ANC visitQ627. Feels her spouse valued her opinion during discussion on ANCQ706. Believes that blood test is the only way to detect malaria and TreatmentQ708. Trusts that treatment drugs received from the health facility are effective	•				
	Q806. Believes HW give preventive medicine only if she has eaten recently			٠	O O
	Q807/8. Believes she will be sent away if she goes to the facility too early or w/o her spouse	•	•		

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4% of respondent "didn't know" how many visits they did during their last pregnancy

Summary of quantitative findings : Our early learnings Outcome variable #1: Women's perceptions of quality of care

Statistically significant (Cl 95%) for the three countries		Antenatal care service prov generally treat pregnant (N = 4,		
Surprising finding,	Surprising finding, for discussion		Agree (85%)	Especially true for
	Q201. Sleeps under an ITN most nights of the week			- C
Insecticide- Treated Nets	Q501a. Has a positive attitude towards ITN use			
(ITNs)	Q507. Perception that sleeping under an ITN every night is the best way to avoid malaria		•	
	Q511. Believes among people who have nets, most do NOT use it every night		•	
	Q601. Believes she should seek ANC care as soon as she knows she is pregnant			
	Q601. Believes she should seek ANC care in the first trimester		•	
Preventive Treatment	Q601. Believes she should seek ANC care after the fourth month	•		A
(IPTp/SP)	Q611. Has a high trust in medicine given to treat malaria		•	G
	Q619. Believes fewer than half women go to at least four ANC visits	•		
Q622. Discussed with her spouse/partner about going for ANC				
Care-Seeking	Q704. Values taking the entire course of treatment medication to cure malaria completely			
and Treatment	0			
Perceptions of	Q803. Doubts CHW ability to treat malaria in children			
Health Workers	Q804. Believes health workers make pregnant women pay for preventive medicine	•		G Q

2% of respondents who "didn't know" were uncertain or chose not to answer

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Summary of quantitative findings: Our early learnings Outcome variable #1: Women taking preventive treatment (IPTp)

How many times did you take the medicine to keep you from getting malaria during this pregnancy? (N = 3,774)

 Statistically significant (CI 95%) for the three countries Surprising finding, for discussion 			0 1 0		
		Less than 3 times <i>(39%)</i>	Exactly 3 times <i>(31%)</i>	More than 3 times (24%)	Especially true for
Insecticide- Treated Nets (ITNs)	Q201. Sleeps under an ITN every night				G
	Q511. Believes among people who have nets, most do not use it every night 🔶				
	Q809. Does not think female children should sleep under ITN over her male children 🔶				0
Preventive Treatment (IPTp/SP)	Q601. Knows she should seek ANC care as soon as she knows she is pregnant			•	M
	Q610. Believes a pregnant women should take several dose of SP to prevent malaria		•	•	G
	Q614. Believes she is able to convince her spouse/partner to accompany her for ANC visit			•	O
	Q615. Believes she is able to go to at least four ANC visits			٠	0
	Q621. The decision to go for an ANC visit is taken solely by the spouse 🔶	•			
	Q621. Takes the decision jointly with her spouse to go for an ANC visit		•		G G
	Q627. Feels her spouse valued her opinion during discussion on ANC				
Care-Seeking and	Q708. Doesn't trust that treatment drugs received from the health facility are effective	٠			
Treatment	Q710. Able to find the money to bring her child to the clinic at first sign of malaria			٠	C
Perceptions of Health Workers	Q803. Doubts CHW ability to treat malaria in children		•	٠	

6% of respondent "didn't know" how many times they took preventive medicine during their last pregnancy

2% of respondent took more than 7 doses of IPTp. These might be cases of overdosage of IPTp

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