Global Minimum Mosquito Net Distribution in the Malen and Kabondeh chiefdoms, Sierra Leone: June – August 2010

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The GMin team before a distribution.

Following the distribution of 4,000 long lasting insecticide-treated mosquito nets in the Malen Chiefdom in Sierra Leone in 2009, Global Minimum (GMin) decided to enlarge its scope for the 2010 distribution. During the months of June to August, GMin distributed 10,560 long lasting insecticide-treated nets to complete full coverage of the Malen Chiefdom and 4 sections in the Kpanga Kabondeh Chiefdom also in the Pujehun District.

The distribution strategy did not change this year. We again visited each village, each home, and provided bed nets for each sleeping space. In each village, we held town meetings, performed malaria education skits, counted each sleeping space in the houses and provided nets to cover all. After we completed Malen, we covered four sections in the neighbouring Kabondeh Chiefdom.

Our partnerships grew in scope over the last year. We were able to get 2,000 bed nets from the London office of PricewaterhouseCoopers, and another 2,500 from the Against Malaria Foundation (AMF). The AMF partnered with Peter Gostelow who through his personal fundraising donated a majority of the LLINs. Peter, through pedaling over 7,000 kms from London and raising funds for nets from family, friends, schools, strangers and others, contributed some 2,500 nets to the GMin distribution (see Peter's website at http://petergostelow.com/). He plans to continue cycling all the way to South Africa and we would like to thank him for joining us during this distribution. He is an integral member of the team that carried out the distribution. The rest of the nets were provided by student groups from Harvard, University of New Hampshire, Burr and Burton Academy and many individuals. The AALL Foundation was responsible for a large chunk of the nets, and also for sponsorship of the education component of our campaign- both during and after the distribution.

Results of our distribution are as follows:

Upper Malen Chiefdom + Sahn Village

Mosquito nets distributed:	5,038
Villages covered:	26
Team Members:	20+
People covered:	9,995
Under-fives covered:	2,408
People per net:	2.28
Average Nets per household:	3.33
Population of largest village:	1,695
Population of smallest village:	28
Years of follow-up:	3

Kabondeh Chiefdom:

Mosquito nets distributed: 5,522

Villages covered: 41

Team Members: 20+

People covered: 12,122

Under-fives covered: 2,755

People per net: 2.21

Average Nets per household: 3.90

Population of largest village: 2,626

Population of smallest village: 14

Years of follow-up: 3

Stage 1: June Freetown to Sahn Malen.

GMin presented our distribution plan to our major partners – the Red Cross (RC), UNICEF, and the National Malaria Control Program (NMCP) in Freetown, during a Roll Back Malaria Consortium meeting that included all other partners helping combat malaria at all stages in Sierra Leone. Like the previous year, our nets were not shipped in time to ensure that we distributed before the end of the summer. Thus, we approached the NMCP again to borrow10,560 nets, which would be returned once our nets hit the shores of Sierra Leone in August. The nets of the NMCP were replenished in October after a

lengthy delay at the national port in Freetown.



Mathias and the GMin team getting on the GMin Poda Poda to Sahn Malen.

The NMCP decided to lend us the nets given our track record and in addition allowed us to use their vehicles to pre-position the bed nets in the major villages in the Malen Chiefdom. This time, we bought fuel for two huge trucks, paid the drivers and the drivers' assistants, and two staff from the NMCP office to supervise the pre-positioning effort. After 10 hours of driving and a brief stopover in Bo Town- second capital city of Sierra Leone, we arrived in Sahn Malen town where half of the nets were stored. The other half were taken to Taninahun, which also has a community health center, but is closer to the rest of the villages in the Upper Malen sections of the Chiefdom.

Our first distribution of 1,200 nets was done there in 2007 after GMin's President David Sengeh visited the chiefdom in 2006 and had a long conversation with the Chief, his own relatives, and the locals in the community. Malaria is the biggest health problem in this community surrounded by mostly palm tree plantations and swamps. The chiefdom is highly invested in the distributions and in the many other activities carried out by GMin there. In 2009, we covered the lower half of the chiefdom with 4,000 bed nets. This was when we forged our partnerships with the Against Malaria Foundation, the Red Cross, the National Malaria Control Program and an infinite number of individual donors and supporters. Our own evaluations have shown that the nets are used; more than 90% of sleeping spaces in the chiefdom were covered one year later, and there has been a dramatic reduction in the number of deaths of children under 5 reported at the health center.

Stage 2 July: Preparations for Distribution and Training new GMin members in Sahn Malen.



Pre-positioning of nets by GMin team members

Sahn is the center for the work GMin has been doing in Sierra Leone for the last 3 years. Sahn is about 8-10 hours from Freetown with no electric grid, running water or paved roads. Farming is the main occupation of the people here.

The Kabondeh chiefdom neighbors Malen. Though bigger in size, Kabondeh is very similar in topography to Malen. The dominant occupations are farming and fishing. GMin targeted 4 sections of the Kabondeh section; Sorbeh Griema, Gbondapi, Mandeima and Gibina. For Gbondapi, we covered all the villages that were accessible by road and about half of the sections were only accessible by boat. Though it would have been highly beneficial to target the villages behind the river, we were constrained by the lack of safe transportation across the river for the nets and us. This decision was made in consultation with the Chiefs of the sections across the river, the paramount chiefs of Kabondeh and Malen as well as he Pujehun District Health Management team. They agreed that this was the best prioritization of our resources.

The most significant change between the distributions this year and the ones previously done was that our team members were recruited from universities in Sierra Leone.

Though we had students from Harvard, Princeton, University of New Hampshire and a high school called Burr and Burton Academy, the majority of the students who led the distribution were from Njala University based in Bo Town, Sierra Leone. The backgrounds of the students were diverse and they ranged from tropical medicine majors to Computer Scientists. The interview process was informal and the vacancy notice was mainly spread by word of mouth.

In Sahn Malen town, we trained each student to interview household heads and ensure that every sleeping space was counted. We spent a lot of energy on education in each household, so that people use the nets properly, and also to create an awareness that this is a community project. For example, we explain that if people hog nets, then they will be taking them away from other people in the chiefdom. An integral part of our method is that we are able to account for each net we receive from donors many months and years after the distribution. So our team members were trained in how to interview, record, compile and collate records from each house. They also learned to perform the malaria educational skit, which we have at town meetings. The students spoke krio and the majority also spoke mende, so they were much more skilled at communicating with the people of the chiefdom than the international volunteers.



GMin members discussing before a distribution

Stage 3 July: The Distribution



GMin members crossing a river to distribute nets

A striking difference between our work last year and this is that our home base was about 9 miles from the nearest village we were distributing in this time round. Some villages were up to 18 miles away from Sahn Malen this year. Thus, it did not make much sense to walk an entire 18 miles each way (a marathon is 26 miles), one way before distribution and then another 18 to get back home. So, we decided to hire a "poda-poda" which is a public transportation vehicle that could carry up 30 people (crammed inside and on the roof) and our nets.

We still woke up at 6:00 AM daily, took care of personal hygiene, ate breakfast together bread and butter and sometimes sardines with mayonnaise. Next, we would assemble sachets of water, stationery, rain gear, cameras and anything else that would be needed for the road. With our packs ready, we then sandwiched into the *poda-poda* much like the sardines we ate at breakfast. A couple brave ones would sit on the roof of the vehicle but even this did not free up space. It just meant more people came on the trip because all the locals were excited to join on.

We would drive for about 9-12 miles to a village that would act as the day's hub, pick up nets that were already pre-positioned and then walk about 2-5 miles to villages that could not be accessed by a vehicle. Since our team was largely made of trained locals able to

lead their own teams, we usually split into 2-3 groups and went in different directions to cover neighboring villages.

Each group, upon arrival to a new village, would gather at a town meeting hosted by the village elders. The locals would introduce us to the Chief of the villages and then explain the origin of our organization and how its foundations were rooted in David Sengeh whose family hails from the chiefdom.

We would emphasize the fact that our activities were non-political and that we did not need money or any sort of payments for the nets. We stressed the importance of using the nets and how that serves as payment from their end before proceeding to have a malaria education skit in front of the whole village.

The Skit: This is a demonstration of how the nets would hang over a sleeping space. One person lies down to sleep on two bales of nets, and other people act as mosquitoes who attack him. The sleeping person wakes up, feels sick, and passes out. Then we show him/her going to sleep under a net. The mosquitoes attack again, but are killed by the insecticide-treated net, and the person wakes up healthy. We put emphasis on nets hanging over sleeping spaces that are not beds since most of the under-fives in the community sleep on mats and they are the most vulnerable. One of the Red Cross volunteers ran a quick question and answer session to address the concerns of the community, and then we broke into small groups of 2-3 people and started the house-to-house distribution.



Anthony Lebbie- A Red Cross supervisor leading the malaria education skit during a town meeting

Distributing the Nets:



After a day of distribution, this is what a village looks like. Lovely and shiny nets hanging in front porches.

Our teams comprised members from the community, the local university students and GMin members from abroad. We also included volunteers from the Red Cross and the Pujehun District Health Management Team when they were available.

In each house, a team member would introduce the rest of the team to the household head and go through all the main information as given at the town meetings. He/she would then survey how many nets the house needed by counting "sleeping spaces", which is any space, bed, mat or floor that someone sleeps on. He would also collect data on the demographic composition of the household (number of people and ages) and the number of old nets. Prior to the distribution, the Princeton Institutional Review Board approved our survey used and all responses are confidential – we will only use the answers in the aggregate.

Another team member would then rip open the plastic bag containing the long lasting insecticide treated nets and the rest of the team would show how the nets are hung over the beds and sleeping spaces on the floor. The exact quantity of the nets needed are then hung outside in the shade to air out, and the recipients are advised to let them hang outside all day and possibly the next day. In houses where there were nets previously provided by the ministry of health during pregnancy, we would inspect these nets and when they met our standards (looked new, were given within the last year), we would not replace them. This was a small fraction of the old nets, and most of the ones we saw were torn or were several years old so the insecticide had worn off.

Successes:



The final destination of our insecticide-treated nets - over a bed in the Malen chiefdom

- We covered the entire Malen chiefdom and 4 sections of Kpanga Kabondeh with 10,560 insecticide-treated mosquito nets
- Expenses for vehicles were limited to long travels (> 5 miles) and we walked a significant amount. Our distribution was very economical even when this transportation and stipends for our volunteers was calculated. Distribution costs are less than 75 US cents per net.
- We've bonded with the people of the Malen chiefdom because of our sustained presence, and many people are very proud of GMin. We have achieved a great working relationship with the local schoolteachers, elders, and chiefs.
- Our nets are counted as part of the 2010 Universal Coverage Campaign run by the National Malaria Control Program and the entire Roll Back Malaria Campaign. GMin nets will count in the statistics that determine Sierra Leone's progress towards the Millennium Development Goals.
- We included local university students on our team, thereby anchoring it locally, saving money, and providing useful summertime occupation that will help them pay their school fees.
- We sustained our great relationships with the Red Cross Sierra Leone, UNICEF-SL and the local District Health Medical Team.
- Our evaluations show that the nets are used to a much greater extent than other free distributions.

Challenges



The sleeping space for most under-fives: the floor

- We found that children normally slept on the floor rather than in beds. We also found that mosquito nets were sometimes used to cover beds only, so a few children were effectively uncovered by a family's mosquito net even though they are the most vulnerable group. Our response was to keep stressing education efforts through local engagement as the key to protecting this vulnerable group.
- Some people tended to exaggerate the number of people in the household, and some increased the number of sleeping spaces by putting out extra mats on the floor. Some also took down old nets prior to our arrival. Our best shot at countering this was to stress that this was a community project initiated by a community member, and that we only had a limited number of nets so that any hoarding would take nets away from others. Our local team members questioned any suspicious household figures and urged people to be honest. This generally worked well.
- We found that, as we distanced ourselves further geographically form the Malen chiefdom, it took longer for the chiefs and members of villages to trust us. They were more wary of our intentions. Our response was to take all the time needed to establish the trust necessary for the effectiveness of our distribution.

Distribution Data

Kpanga Kabondeh Chiefdom, Pujehun District.

	%ofppl under5	20%	22%	79%	20%	15%	23%	23%	70%	22%	24%	27%	29%	19%	23%	18%	32%	70%	21%	30%	78%	16%	70%	15%	36%	16%	17%	23%	21%	22%	%9	24%	23%	20%	22%	73%	41%	31%	27%	29%	14%	19%	73%
0.5	%ofHHw/ Pregnant	18%	22%	14%	%0	17%	722%	722%	%92	13%	125%	7%	%0	%8	23%	20%	%0	27%	18%	93%	20%	%8	70%	%0	38%	13%	%0	%6	73%	36%	38%	32%	17%	79%	22%	762	72%	45%	49%	40%	44%	12%	28%
Ratios	People/ Net	2.3	2.2	2.4	2.0	2.4	2.3	2.0	2.2	2.8	2.5	2.5	2.0	2.2	2.4	2.2	2.3	2.3	2.4	2.3	2.1	2.1	2.3	2.0	2.0	2.3	2.0	2.2	2.3	2.5	2.0	2.3	2.6	2.4	2.5	2.5	2.4	2.3	2.5	2.4	0.7	1.0	2.21
	Nets/ Household	3.8	4.9	3.0	3.0	2.3	3.5	3.6	3.2	3.6	9.9	3.1	2.3	3.6	3.9	3.3	4.8	3.3	3.0	5.5	4.2	2.5	4.0	2.9	3.7	2.8	3.0	2.0	4.1	3.4	3.9	3.8	3.1	4.1	3.5	3.2	3.1	3.5	3.4	3.1	14.3	8.1	00 6
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	Sheeping	329	4	69	25	15	140	100	80	82	23	48	7	43	228	39	19	268	195	77	29	30	20	20	09		33	46	1153	202	31	287	179	94	333	143	62	39	192	140			4000
Nets	Nets	163	27	50	10	10	09	40	51	4	30	27	1	8	70	10	9	113	52	24	4	1	1	5	45		15	24	200	43	9	06	86	29	57	19	48	34	37	39			1991
	Nets	322	4	29	24	14	139	100	80	82	23	47	7	43	221	39	19	292	197	77	<i>L</i> 9	30	20	20	59	22	33	45	1153	202	31	284	181	94	332	143	29	39	188	139	257	9/2	5522
ition	Pop	744	95	159	49	33	324	199	172	231	133	117	14	95	521	8	4	909	471	178	141	62	45	39	120	51	65	101	5626	512	62	929	470	225	816	354	146	88	479	333	178	282	12122
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	Date	7/12/2006	7/12/2006	7/12/2006	7/12/2006	7/12/2006	7/12/2006	7/12/2006	7/12/2006	7/12/2006	7/12/2006	7/13/2006	7/12/2006	7/12/2006	7/13/2006	7/13/2006	7/13/2006	7/13/2006	7/13/2006	7/13/2006	7/13/2006	7/13/2006	7/13/2006	7/13/2006	7/13/2006	7/13/2006	7/13/2006	7/13/2006	7/15/2006	7/15/2006	7/15/2006	7/15/2006	7/15/2006	7/15/2006	7/16/2006	7/16/2006	7/16/2006	7/16/2006	7/16/2006	7/16/2006	7/22/2006	7/22/2006	
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Upper Malen, Pujehun District.

%ofppl	under 5	21%	32%	18%	19%	79%	21%	24%	27%	27%	23%	25%	21%	22%	32%	18%	19%	27%	27%	34%	21%	22%	27%	25%	26%	23%		24%
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People/	Net	2.3	2.8	2.5	2.5	2.3	2.0	2.3	2.2	2.4	2.4	2.3	2.1	2.3	2.1	2.3	2.3	2.4	2.3	2.3	2.3	1.7	2.5	2.3	2.3	2.1		2.28
Nets/	Honsehold	3.1	1.7	3.9	3.6	3.8	2.9	3.7	3.7	2.8	3.3	3.9	3.2	3.8	3.5	4.0	3.7	2.8	2.8	3.0	4.0	3.0	3.2	3.6	3.7	2.8		3.33
Pregnant	Women	32	0	20	1	18	1	9	12	4	15	25	8	120	23	10	9	4	0	9	7	2	33	29	11	0	48	393
Under	fives	211	6	117	29	188	8	70	129	35	157	124	42	211	125	35	32	35	23	76	45	11	251	241	167	25	320	2408
Sleeping	Spaces	169	5	47	36	55	9	30	26	32	74	65	22	40	20	36	14	32	19	16	28	0	218	36	77	39	383	1172
Nets	Previous	32	0	20	1	18	1	9	12	4	15	25	8	120	23	10	9	4	0	9	7	2	33	29	11	0	48	333
Nets	Given	437	10	792	62	318	20	128	222	55	283	222	122	414	186	82	73	52	37	96	95	30	367	425	278	53	703	2038
	Pop.	666	28	643	152	732	39	297	486	131	8/9	501	256	946	392	194	169	131	82	221	214	51	915	981	645	109	1695	9995
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	Town	Tanninahun	Blamawo	Libbie	Bendu Jnct	Bendu	Borbuwo	Borbuwa	Mallay	Sembehun	Gboyama	Sengema	Tissana	Jao	Kpanguma	Bomuvulahun	Ngiema	Sembehun	Jaluahun	Manowo	Senehun	Jolahun	Nyandehun	Fayama	Jama	Talia	Sahn Malen	TOTALS
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Appreciation

The Global Minimum Club at University of New Hamshire led by Sarah VanHorn, the Initiative at Burr and Burton Academy led by Luke Dryban and the many clubs from Harvard College!

Our appreciation also extends to the London office of PricewaterhouseCoopers who sponsored 2,000 nets.

No single sponsor was more important than the AALL foundation, who provide the bedrock funding that allows us to pay for a large chunk of the nets, as well as transportation of the nets and follow-up.

We would like to wish Peter Gostelow good luck and thank him for his energy and passion in addition to the nets he provided for us. Peter is riding a bicycle from UK to South Africa (http://www.thebigafricacycle.com/) to raise money for the Against Malaria Foundation. Peter was able to join our team during the most intense days of distribution.

And of course, much appreciation to the Against Malaria Foundation who have been our most important partner without whom we wouldn't have raised funds, ordered nets, transported them and coordinated all the many efforts with such ease.

In addition we would like to thank:

Our many donors who funded nets from all over the world;

UNICEF-Sierra Leone for providing advice on how to best distribute nets and for providing extra malaria drugs for the health centers in the Malen Chiefdom;

The Red Cross Sierra Leone for providing volunteers for our distribution;

The National Malaria Control Program of Sierra Leone for lending their truck for the transport of the nets from Freetown to Sahn, for providing the *paracheck* and lots of advice;

And finally, the people of the Malen Chiefdom for warmly hosting us.