

Quarter 4 2013 Medical Summary Overview:

Total current partners with medical teaching: **42**

(Total partners = 44, but YFC and COC have not yet received medical training, and one of our partners, Murinda, is currently closed)

Average number of learners taught each month this quarter: **564**

(LN did all staff partnership meetings at many of the sites so not all learners participated in medical training each month)

Total number of patient's seen by our clinics this quarter: Pending total from Operations Team.

New partners that started this quarter: **3** (Red Cross Clinics)

Total number of medical trainings for this quarter: **206** (Fewer this quarter due to partnership meetings/business training and December schedule)

Total number of partners that have achieved "official partnership status" at 50%: **42**

(All medical partners that have started the medical training except for university partners)

Total number of partners qualifying for a loan: **29**

Medical Director Highlights, Quarter 4:

Quarter 4 was a productive quarter for the medical team. As the year comes to an end, we have a lot to celebrate with our partners. Overall, our clinic partners have continued to show great improvement.

In December, nearly all of our partners received a review of the lesson on newborn resuscitation. This was paired with the "Christmas Special," of offering a newborn ambu bag to all of our partners at a very discounted price. This allowed all of our partners to be equipped to perform effective and safe newborn resuscitation when needed, while previously only about half of our partners had this important piece of equipment. The training and the ambus were received with enthusiasm, and this effort will no doubt help more babies breathe and live in the year 2014, and the years to come.

The medical team has also been hard at work finalizing the curriculum and new quality scorecard for 2014. All members of the team have taken part in this effort, as well as external consultants. The medical program was presented at the LifeNet party in November, and then again at each site visit following the party, with praise by our partners. The new structure of the curriculum now has major objectives for each module, which is composed of relevant lessons: Module 1 "Back to Basics," Module 2 "Safe Baby," Module 3 "Safe Birth," Module 4 "Healthy Child," and Module 5 "Healthy Lifestyles." The main objectives for the modules are: to reduce infant, maternal, and child morbidity and mortality, and to decrease the burden of non-communicable diseases. We were able to cast the vision for these major objectives and bring our partners on board with the vision at our LN party. The new program incorporates a lot of feedback from our partners, as we know that we must listen to our partners in order to truly meet their needs. Based on demand from our partner clinics, we will start of the year giving a summary of all of the lessons taught in the entire first module so that the learners can start to learn the material immediately and refresh as they go. We will also give the quality scorecard to all of our partners with a detailed explanation of what we are looking for that correlates with each module at the start of each module. We will continue to give pre/post tests for each lesson, but we will also give a comprehensive test at the beginning and at the end of each module to all learners to assure that they were able to grasp the main points. Next year, we will also be spending a full day at each site in order to share more time more one on one with the nurses, while still continuing our formal monthly lessons. If all of the nurses pass their exams by 80%, and the partner passes the QSC by 80%, we will then offer a small celebration party, a star of excellence for them to hang on their wall, and access to specialist training that will be income generating for the clinic. Our hope for the first specialist next year is one that will provide dental care training. Encouragement in the form of a party and access to specialists are of major interest to our partners. Furthermore, next year the nurse trainers will each be officially assigned their own cohort of clinics that they will be training and supervising, to allow for consistency and further relationship development.

This quarter LifeNet also welcomed a new member of the medical team: Saphrone Bukuru. He is a qualified nurse, level A0, and has already shown his dedication to the LifeNet team by quickly learning many new lessons. The entire LN team will support him, but his main training mentors are Dorine and Saidi. Prior to joining LifeNet he worked as a head nurse for two years. He is a good fit as a nurse trainer, as he also has a background in pedagogy and enjoys teaching. He speaks French, Kirundi, Swahili, and English. As the LifeNet team continues to grow, we continue to praise God for the people he brings to us.

Quarter 4 Partner Summaries by Cohort:

Cohort I

Category	Partner Name										Avg
	Bigomogomo	Buhinga	Gakwende	Kigobe	Kiremba	Mariya Mwiza	Muyebe	Nyangihotora	Nyavyamo		
Consultation	71%	79%	86%	93%	93%	86%	71%	79%	79%	75%	
Emergency	58%	58%	83%	67%	92%	83%	75%	25%	75%	64%	
Infrastructure	88%	88%	84%	94%	91%	94%	75%	88%	84%	87%	
Laboratory	64%	79%	71%	100%	86%	86%	64%	57%	86%	79%	
Management	93%	98%	98%	95%	97%	100%	95%	95%	93%	94%	
Maternity	77%	82%	73%	77%	95%	91%	73%	73%	91%	79%	
Nursing	57%	79%	86%	71%	93%	79%	71%	64%	57%	70%	
Prevention and Promotion	100%	100%	67%	83%	100%	50%	83%	83%	67%	80%	
Surgery	72%	67%	78%	83%	83%	78%	67%	56%	61%	69%	
Grand Total	80%	85%	85%	88%	93%	89%	79%	76%	82%	82%	

Table 1. Cohort I: Quality Score Card results for Q4 2013. There were not changes in partner status for this high achieving group this quarter. Of note Murinda and Matana partners were not scored this quarter due to complications with partnership status.

	Bigomogomo	Buhinga	Gakwende	Kigobe	Kiremba	Mariya Mwiza	Muyebe	Nyangihotora	Nyavyamo	Avg
Percent change	310%	198%	153%	52%	63%	105%	134%	93%	263%	117%

Table 2. Cohort I: Percent change in quality score card results since the beginning of the partnership (Q1 2012).

Equation used: ((Q4 of 2013)-(Q1 of 2012))/(Q1 of 2012).

- As Cohort I is the longest standing cohort, it is no surprise that the average score for this cohort is relatively high.
- All partners in this cohort are eligible for the loan program. Of note, Kibuye received an equipment loan the 2nd quarter, and the medical director gave training on the use of the machine on two occasions. Unfortunately there was 2-month gap in the utilization of the machine due to a lack of reactive in country needed to make the hemograph (CBC) machine work, so the medical did another refresher this quarter. No other loans have been distributed.
- We continue to receive a warm welcome from these partners and all have signed on through the contract year 2014.
- All of Cohort I's consistent partners are in the process of completing Units 7, 8, and 9. All have completed the 4-6 Unit review.
- The religious affiliations of this cohort are: seven CEPBU CDSs (64%), one Anglican affiliate/public (9%), one Methodist (9%), one Emmanuel Church (9%), and one Friend's Church (9%).

Cohort 2

Categories	Partner Names					Average
	Ijenda	Kibimba	Kinama	Kivoga	Nyankanda	
Consultation	100%	79%	71%	57%	71%	76%
Emergency	92%	83%	83%	75%	83%	77%
Infrastructure	97%	100%	75%	81%	88%	89%
Laboratory	100%	100%	100%	43%	79%	84%
Management	100%	98%	90%	71%	98%	91%
Maternity	91%	100%	82%	82%	95%	91%
Nursing	93%	79%	79%	64%	64%	76%
Prevention and Promotion	100%	100%	67%	33%	100%	80%
Surgery	100%	94%	78%	61%	67%	80%
Grand Total	97%	95%	83%	68%	86%	86%

Table 3. Cohort 2: Quality Score Card results for Q4 2013. Of note, no new change in partner status.

Cohort 2	Ijenda	Kibimba	Kinama	Kivoga	Nyankanda	Average
Percent Change	21%	94%	121%	465%	61%	152%

Table 4. Cohort 2: Quality Score Card percent change results comparing Q3 2012 and for Q4 2013 (from the beginning of the partnership). Average percent change without Kivoga is 79%.

- This small cohort has been with LifeNet now for one year and 1-3 months. Ijenda and Kibimba have the two highest scores in the entire network of partner clinics, as they are well managed and motivated.
- There were no new changes in partner status this quarter. As seen in Table 3, nearly all of the partners in this cohort score very highly and are all eligible for the loan program. No loans have yet been distributed to this cohort.
- All of Cohort 2’s consistent partners finished Unit 6, and are working through Units 7 and 8.
- The religious affiliations of this cohort are: one Anglican partner and one Friend’s Church partner. All other partners are of Catholic affiliation, and all of the partners that discontinued in 2012 were Catholic affiliates.

Cohort 3

Category	Bwasare	CLIPA	Gasenyi	Kagari	Maramvya	Nyamabuye	Rusagara	Rutare	Vision Sante	Average
Consultation	43%	100%	36%	71%	50%	64%	64%	79%	100%	67%
Emergency	67%	92%	92%	92%	42%	92%	58%	92%	92%	80%
Infrastructure	81%	97%	81%	88%	72%	88%	88%	88%	97%	86%
Laboratory	64%	93%	64%	64%	93%	71%	86%	71%	100%	79%
Management	90%	95%	100%	97%	95%	97%	95%	98%	97%	96%
Maternity	68%	68%	77%	68%	59%	73%	77%	77%	55%	69%
Nursing	36%	93%	64%	64%	43%	64%	64%	71%	86%	65%
Prevention and Promotion	50%	67%	100%	67%	83%	100%	33%	67%	100%	74%
Surgery	61%	83%	56%	56%	78%	56%	67%	61%	89%	67%
Grand Total	71%	90%	79%	80%	74%	82%	79%	84%	91%	81%

Table 5. Cohort 3: Quality Score Card results for Q4 2013. New clinics over 75% noted in green. No new score was obtained for the Rusagara clinic.

Cohort 3	Bwasare	CLIPA	Gasenyi	Kagari	Maramvya	Nyamabuye	Rusagara	Rutare	Vision Sante	Average
Percent change (Q4-Q1)/(Q1)	129%	20%	47%	95%	48%	15%	59%	13%	81%	56%

Table 6. Cohort 3: Quality Score Card percent change results comparing Q1 and for Q4 2013 (from the beginning of the partnership). Rusagara was not included in the average percent change.

- This cohort showed continued improvement in the QSC results. This cohort began training with LifeNet Quarter 3 of 2012, so this is their sixth QSC. Their average improvement over the course of the past year is 56%, reaching the LN goal of 50% improvement in one year. The improvement may not seem as dramatic as some other cohorts, but many of the sites started at a higher initial score than other cohort partners.
- Currently, all partners in this cohort are eligible for the loan program. No loans have yet been distributed to this cohort.
- Cohort 3 partners are in the process of completing Units 5 and 6.
- The religious affiliations of this cohort are: nine CEPBU sites (82%) one private site (9%), and one Methodist site (9%). Hope Africa is the Methodist site, not represented on the QSC, as the trainings have only commenced at the university level, and not yet at the clinic.

Cohort 4

Category	Partner Name											Average
	Bubera	Bukeye	Gishiha	Kagongo	Karonda	Kayogoro	Kibuye	Mayengo	Mugara	Muresi	Ruhora	
Consultation	57%	50%	43%	50%	50%	50%	64%	36%	36%	43%	50%	48%
Emergency	67%	67%	83%	83%	100%	83%	100%	58%	50%	50%	92%	76%
Infrastructure	84%	78%	81%	61%	78%	84%	100%	75%	88%	84%	81%	81%
Laboratory	79%	71%	79%	86%	79%	86%	100%	79%	86%	57%	79%	80%
Management	91%	90%	86%	91%	91%	95%	98%	74%	90%	86%	83%	89%
Maternity	82%	68%	73%	59%	73%	77%	100%	68%	77%	68%	86%	76%
Nursing	57%	50%	57%	50%	64%	64%	71%	36%	57%	36%	50%	54%
Prevention and Promotion	83%	50%	50%	50%	100%	50%	83%	67%	83%	50%	50%	65%
Surgery	61%	61%	50%	39%	44%	56%	89%	50%	61%	56%	56%	57%
Grand Total	78%	73%	73%	69%	77%	79%	93%	65%	76%	68%	75%	75%

Table 7. Cohort 4 Pivot table Q4 2013. New clinics over 50% noted in orange, new clinics over 75% in green, partners that did not change status are without color.

Percent change From Q2 to Q4 (Q4-Q2)/(Q2)	Bubera	Bukeye	Gishiha	Kagongo	Karonda	Kayogoro	Kibuye	Mayengo	Mugara	Muresi	Ruhora	Average
	64%	39%	25%	62%	58%	47%	57%	95%	44%	30%	54%	52%

Table 8. Cohort 4: Percent change in quality score card results from the beginning of the partnership (Q2 2013).

- This is the third quarter for QSC evaluation of this cohort, and they did remarkably well.
- There are five new 75% partners eligible for loans.
- This is an enthusiastic cohort that has already shown excellent improvement. This is likely due to good cooperation with the head nurse and finance director and immediate implementation of the program teaching. Furthermore, there is frequent evidence of aid and other NGO influence at these sites (regional) that may contribute to more access to supplies and better scores. So far, the teaching has been well received.
- Cohort 4 partners are in the process of completing Units 4 and 5.
- All partners are members of the CEPBU (Pentacostal) Church, save Kibuye Hospital, which is Methodist and affiliated with Hope Africa University.

Cohort 5

Category	Clinique Van Norman
Consultation	64%
Emergency	83%
Infrastructure	100%
Laboratory	100%
Management	93%
Maternity	100%
Nursing	79%
Prevention and Promotion	33%
Surgery	83%
Grand Total	89%

Table 9. Van Norman Clinic Q4 QSC results.

Percent change From Q3 to Q4 (Q4-Q3)/(Q3)	Van Norman Clinic
	2%

Table 10. The percent change at VNC from the start of partnership (Q3 2013) to current (Q4 2013). Initial score was very high, so a small change is reasonable.

Cohort 5 (Cont'd)

Category	Partner Name			Average
	Red Cross Kinindo	Red Cross Mwaro	Red Cross Rutana	
Consultation	50%	64%	50%	55%
Emergency	33%	83%	50%	56%
Infrastructure	75%	88%	81%	81%
Laboratory	100%	86%	86%	90%
Management	97%	100%	81%	93%
Maternity	82%	68%	91%	80%
Nursing	50%	64%	36%	50%
Prevention and Promotion	50%	83%	100%	78%
Surgery	44%	61%	56%	54%
Grand Total	74%	83%	73%	77%

Table 11. Red Cross Clinics that joined LN and had their first QSC Q4, 2013. This is their first QSC.

- Training at the three Red Cross Clinics in Burundi started this quarter. The initial scores were remarkably high, not surprising as they have had international influence financially, intellectually, and have a coordinator that prepares regular trainings to help keep the clinics up to date. They have all qualified for the official partnership banner this quarter, and Red Cross Mwaro has also qualified for a loan. The leadership is strong at all three sites and we are hopeful for a fruitful partnership. The Kinindo and Mwaro clinics both have physicians on staff as well as nurses; nurses only staff the Rutana clinic.
- Training at the Van Norman Clinic started quarter 3. The Van Norman Clinic is a private clinic affiliated with Hope Africa University, which is Methodist. Their initial score is remarkably high; this is likely due to the excellent leadership and funding at this site, though LifeNet’s unofficial partnership prior to the initial QSC may also contribute. They have qualified for a loan on their first QSC.
- The VNC is in Unit 1-3 trainings. The aim is to teach the nurses, not the nursing students, as the nursing students are taught by the NT at Hope Africa University already. I have received numerous requests from the physicians and nurses at the Van Norman Clinic to continue our teaching, and even to come more frequently. The Van Norman Clinic is staffed by nurses and doctors; the nurses take the role most often seen in the hospital setting (more of an RN role than an NP role).
- Because of the unique relationship that LifeNet has with the Van Norman Clinic, the medical director is also able to pilot new curriculum and new intervention ideas at this site.
- Training also started last quarter with two other new partners, Cries of a Child (COAC) and Universite des Grandes Lacs (UGL). Successful first aid training was given to community workers and some nurses from nearby clinics in Bukeye through our partnership

with COAC. LN will train the staff at COAC once the clinic opens, most likely in 2014. As the clinic is not yet open, no QSC was done there. UGL students were pleased to have LN staff teaching Units 1-3 this quarter; both the nursing and midwifery students are benefiting from the training. UGL is a university that was started by the Kiremba CEPBU community in conjunction with the catholic community in the early 2000's, and has one clinic in Bujumbura, and another in Bururi province. The leadership at UGL has requested that we expand our teaching to their Kiremba location as well in 2014.

Compilation of other data across cohorts:

Month	Change in pre/post test
July 2012	29%
August 2012	26%
September 2012	33%
October 2012	32%
November 2012	36%
December 2012	40%
January 2013	41%
February 2013	46%
March 2013	44%
April 2013	42%
May 2013	41%
June 2013	39%
July 2013	45%
August 2013	43%
September 2013	42%
October 2013	41%
November 2013	40%
December 2013	34%*

Table 12. Average pre/post test scores change in score percent by month July 2012 to December 2013 across all cohorts.

Table 12 represents change in pre/post tests across the cohorts month by month. There has been a great overall improvement since the start of this data collection in July, 2012. The slight dip in May and June is likely related to introducing a new nurse trainer, potentially harder lessons, more non nurse students attending the lessons, and a lower N due to a number of review lessons being taught this quarter that do not produce a pre/post test for the class, but rather a test score for the individual student. However, close to 40% improvement is an excellent improvement, demonstrating that the learners are indeed learning from the lessons. Retention of the information is demonstrated by the QSC evaluation and Review tests given every three units (includes a practical component), where learner receive a certificate if they achieve over 85% scores.

*December's pre/post test score is lower, which is expected due the fact that at almost every site the lesson that was taught was a review lesson for most learners that attended the lesson. The lesson taught at all sites in December was the newborn resuscitation lesson, which was done in conjunction with our "Christmas Special," of giving the ambu bags, used for newborn resuscitation, at a discounted price.

Name of Clinic	50% partner	Eligible for Loan	Name of Clinic	50% partner	Eligible for Loan
Bigomogomo	Yes	Yes	Mariya Mwiza	Yes	Yes
Bubera	Yes	Yes	Matana	Yes	No
Buhinga	Yes	Yes	Mayengo	Yes	No
Bukeye 2	Yes	No	Mugara	Yes	Yes
Bwasare	Yes	No	Murinda	Yes	Yes
CLIPA	Yes	Yes	Muresi	Yes	No
Gakwende	Yes	Yes	Muyebe	Yes	Yes
Gasenyi	Yes	Yes	Nyaghiatora	Yes	Yes
Gishiha	Yes	No	Nyamabuye	Yes	Yes
Ijenda	Yes	Yes	Nyangihotora	Yes	Yes
Kagari	Yes	Yes	Nyankanda	Yes	Yes
Kagongo	Yes	No	Nyavyamo	Yes	Yes
Karonda	Yes	Yes	Ruhora	Yes	Yes
Kayogoro	Yes	Yes	Rusagara	Yes	Yes
Kibimba	Yes	Yes	Rutare	Yes	Yes
Kibuye	Yes	Yes	Red Cross Kinindo	Yes	No
Kigobe	Yes	Yes	Red Cross Mwaro	Yes	Yes
Kinama	Yes	Yes	Red Cross Rutana	Yes	No
Kiremba	Yes	Yes	Van Norman Clinic	Yes	Yes
Kivoga	Yes	No	Vision Sante	Yes	Yes
Maramvya	Yes	No			

Table 13. Partners qualifying for 50% banners and 75% partnership loan eligibility. Partners with a change in status highlighted in yellow. This only applies to partners who are eligible for the QSC (does not include university partners, COAC, and YFC).