RBM Vector Control Working Group

Work Stream: Durability of LLIN in the Field
Update on field studies from Uganda and Nigeria

Albert Kilian

8th Annual Meeting
28-30th January 2013
IFRC Geneva
Uganda prospective LN study

- Four villages near Kyenjojo, West Uganda
- Seven LN brands (150 per brand)
  - Poplypropylene (1)
  - Polyethylene (3)
  - Polyester (3)
  - All 100-150D
  - First two year 3-monthly follow-up, then 6-monthly
- Only attrition and integrity are measured
Uganda prospective LN study

Physical Integrity: 915-760 nets per survey, 6815 obs
Attrition after 24 months: 12%, ~6% loss to damage

![Graph showing percentage of nets in different conditions over time.]

- red: too torn
- green: severely damaged
- yellow: some damage
- dark green: good
Uganda prospective LN study

Physical Integrity: damaged and torn nets by brand
Nigeria

- Multiple cross sectional surveys to determine physical survival of LLIN from campaign

\[
\text{Durability} = \frac{\# \text{ of nets still there and fit for use at time } x}{\# \text{ of nets originally received and not given away}}
\]

- Intervention-control study to evaluate the impact of improved care & repair behavior on physical deterioration of nets
Nigeria Durability and Care & repair

NetWorks

Zamfara
NORTH WEST
NORTH CENTRAL
SOUTH WEST
SOUTH EAST
SOUTH SOUTH
NORTH EAST

Nasarawa

Cross River
Nigeria Durability and Care & repair

- **All Campaign nets PET 100D**
- **Per site 20 clusters selected per PPS**
- **Per cluster 15 households sampled that had received nets from campaign**
Nigeria - Durability

Year one results from 900 households and 2028 nets

[Bar chart and line graph showing net survival by region and durability over years.]

- Zamfara
- Nasarawa
- Cross River
Nigeria - Durability

Year one results from 900 households and 2028 nets

Zamfara

Cross River

Nasarawa
Nigeria – Care & Repair

• Baseline results indicate very comparable situations in intervention and control sites with little or no repairs of holes
• Based on findings of formative and quantitative data BCC campaign designed and implemented since October 2012
• Evaluation survey to start March 2013
• Final results expected Sept 2013