RBM Vector Control Working Group

Work Stream: Durability of LLIN in the Field

Update on field data from Uganda and Chad

Albert Kilian

7th Annual Meeting
6-8th February 2012
IFRC Geneva
Uganda

• Potential impact of physical condition of nets of parasitaemia of children
  - Cross sectional surveys for ICCM base-line and mid-term surveys
  - ~1600 households each survey
  - At mid-term every 2nd house net hole assessment of U5
Uganda

![Bar chart showing malaria parasite prevalence in children 6-59 months in North and South Uganda, with baseline and midterm data.](chart.png)
Uganda

Proportion of sampled nets

Age of net in years

PE 150D 14.7%
PET 100D 8.1%
Uganda

So far no clear association between net condition and parasite rate
Eastern Chad

- Data from MENTOR Initiative (R. Allan)
  - Three types of LLIN distributed in local and IDP communities 2007/08
  - Follow-up cluster surveys after 1, 2 and 3 years
  - Sample size 690-1032 HH
East Chad (MENTOR)

Refugee and local communities, only nets used for sleeping

Allan R et al.
East Chad (MENTOR)
East Chad (MENTOR)

Attrition rates differ between net types

<table>
<thead>
<tr>
<th>Year</th>
<th>Proportion of households owning type of LLIN</th>
<th>PE 150D</th>
<th>PET 75D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
<td></td>
<td>54.2</td>
<td>38.3</td>
</tr>
<tr>
<td>Year 2</td>
<td></td>
<td>43.6</td>
<td>35.3</td>
</tr>
<tr>
<td>Year 3</td>
<td></td>
<td>31.2</td>
<td>29.1</td>
</tr>
</tbody>
</table>
East Chad (MENTOR)

Attempting an estimate of “useful life” for Chad data by combining attrition and % not too torn

![Graph showing the proportion of nets still present in % over years for 3-year and 5-year data. The graph includes data points for 3-year and 5-year data, with 3-year data shown as red squares and 5-year data shown as blue circles. The graph also includes indirect data represented by green squares.](image-url)