RBM Vector Control Working Group

Work Stream: Durability of LLIN in the Field

Summary

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Summary - Field Data

- Field data on LN durability is beginning to come in and indicates
  - That both attrition and integrity data are crucial to estimate physical net survival
  - That attrition is to a large part due to factors unrelated to the product durability which needs to be taken into account in the analytical approach
  - Differences between brands in the first two years of follow-up are generally small and more driven by local factors than material
  - Potential of BCC to improve net survival is being explored and first results expected by end of 2013
Experimental and lab studies on LN durability are in progress or planned and indicate

- A first break in the yarn integrity is the most critical step in net deterioration and understanding its mechanisms is crucial
- Vulnerability of a product to damage depends as least as much on the knitting pattern as on the physical properties of the material
- Location of holes on the net appear to matter and very small holes (<0.5cm diameter) are functionally ineffective
Work Plan 2013

- At this point a clear guidance from WHO on how to analyze and combine data on attrition, integrity and insecticidal protection into an estimate of “net survival” is critical.

- The LN durability work stream will establish an inventory of ongoing studies (field and lab) and provide support to researchers by networking and dissemination of guidance as it becomes available.