Laboratory tests for fabric strength

• Relationship between fiber strength and LLIN durability is not straightforward
• A number of factors are responsible for LLIN tear and wear in the field
• These factors vary between and within areas
• These factors include mechanical, thermal and rodent damage
• Whereas, there are tests to measure fiber strength, those for thermal and rodent damage are lacking
Rodent damage – courtesy of Albert Kilian

Nonwovens Innovation Research Institute (NIRI)

• Develop test methods to assess thermal and rodent damage
• Determine the relative performance of all WHHOPES LLINs
• With fabric strength testing, establish durability profiles of all LLINs in 4-6 months

Such results and those from R4D and Albert Kilian:

• will encourage industry to come up with LLINs that can resist both mechanical, thermal and rodent damage