

Ministério da Saúde Direção Nacional de Saúde Pública Programa Nacional de Controlo de Malária



Supporting the setup of a malaria entomological surveillance network in Angola toward sustainable local entomological capacity







REDUCING DEATHS AND SUFFERING FROM TROPICAL DISEASES





Introduction

Longitudinal Study of the Culicidae Population of the Provinces of Benguela and Cuanza-Sul, 2021 – 2024

Objectives

- Characterise local mosquito populations focusing on Anopheles spp.
- Selection and training of entomology teams at provincial level







Introduction





Opportunities

- How to leverage the opportunities open by the project to look for sustainable and longterm local mosquito monitoring?
- How to **engage** provincial teams for malaria entomological field work?
- How to ensure that provincial teams have all **necessary materials** and **logistical support** to implement the field work?

SELECTION AND TRAINING OF ENTOMOLOGY TEAMS AT PROVINCIAL LEVEL



Implementation

Selection and training of entomology teams at provincial level Develop a training course with focus on field work

Develop a forum for routine data driven decision making and refresher sessions – <u>Provincial Vector Control Groups (TWG)</u>

Integrate the trainees into regular mosquito monitoring activities

Monthly supervision - on job training supportive supervisions



Training

- 5 days training session theory and practical sessions
 - 7 chapters, from bionomics to mosquito collection and sample sorting and storing
 - Benguela and Cuanza-Sul (March / April 2022)
- Facilitated by trainers from Angola NMCP and MENTOR
- Evaluation of knowledge before and after the trainings
- Delivery of training materials
- Trainees: Malaria provincial and municipal supervisors (MMS)





Training



24 provincial and municipal malaria supervisors trained

Province	Trainees	Pre-training test approval	Post-training test approval
Benguela	11	7 (64%) Mean grade: 55%	11 (100%) Mean grade: 92%
Cuanza- Sul	13	5 (38%) Mean grade: 63%	13 (100%) Mean grade: 72%



Provincial Vector Control Groups

- Supported by a Term of Reference draft and approved by the NMCP
- Objectives:
 - A forum to debate the results of ongoing entomological surveillance
 - Experience sharing and bottlenecks
 - Re-training / Training sessions
 - Provincial authorities follow the results of the ongoing surveillance.
 - Planned for every 3 months
- Duration: half a day (morning)
- Production of minutes by the Provincial Health Directorate and forwarded to the central level.





Provincial Vector Control Groups

- First meeting: March and April 2022
- Second meeting: June 2022
- Third meeting: October 2022 (joint meeting with the two provinces)











Integration of the MMS

4 STEPS PROCESS

1°	•	January to March 2022: MMS supports the malaria entomological activities implemented by NMCP and MENTOR, taking part in all steps, from advocacy to setting up traps	
2°	•	March / April 2022: Training	
3°	•	April to May 2022: the MMS is integrated in the activates; training on the job in real life situation.	
4°	•	June 2022 (onwards): Delivery of an entomological KIT so that the MMS can carry out monitoring activates by themselves. Regular supervisions	



Integration of the MMS

- Entomological monitoring kit
 - 3 x CDC LT
 - 3 x 6 volts battery
 - 2 x 6 volts battery chargers
 - 1 x 50ml tube of silica gel
 - 300 x 1,5 ml microtubes and cotton
 - 1 x 125ml bottle of alcohol
 - 15 x field forms
 - 15 x plastic petri dishes
 - 1 x magnifier and tweezer

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actividades de vigilância entomológica em	BENGUELA	
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Sector - Angela	 Sua Excelência Senhor Secretário de Estado para Savide Other Lutucuta 	
	Publica: Dr. Carlos Alberto Pinto de Sousa	

NDH / NMCP supporting the initiative







Monthly supervision

- After the <u>MMS start working by themselves</u>, a monthly supervision was implemented by NMCP and MENTOR entomological supervisors
- Objectives:
 - Replace consumables and materials (silica gel, microtubes, cotton, damaged batteries)
 - Problem solving (fixing and cleaning CDC traps)
 - Collect the samples sorted by the MMS.
 - Accompany the MMS in one night of work







Lessons learned

The MMS are responsible for many activities / overlap of activities







Lessons learned

- The **PVCG/TWG**
 - opened the scope for deeper discussions about mosquito monitoring and control.
 - Joint meetings both provinces
 - Networking between municipal supervisors / sharing field experiences
 - Malaria, NTD and Ep surveillance MS





Lesson learned

- Monthly supervisions are pivotal to ensure:
 - good sampling collection, sorting and storing
 - only point of connection between field and the next step:
 - Laboratory processing (central level / international)



Morphological identification training in every supervision





Conclusion & Next steps

- The municipal-supervisor based is an alternative for mosquito monitoring in Angola,
 - HR capacity and KNOWLEDGE TRANSFERENCE within the MoH structure
 - Lead to a greater autonomy and engagement from provincial/municipal health structures.
 - Anopheles morphological identification
- Study the impact of this strategy on the **sustainability of an entomological monitoring network in Angola**.





Ministério da Saúde

Direção Nacional de Saúde Pública

Programa Nacional de Controlo de Malária

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