



Malaria Update

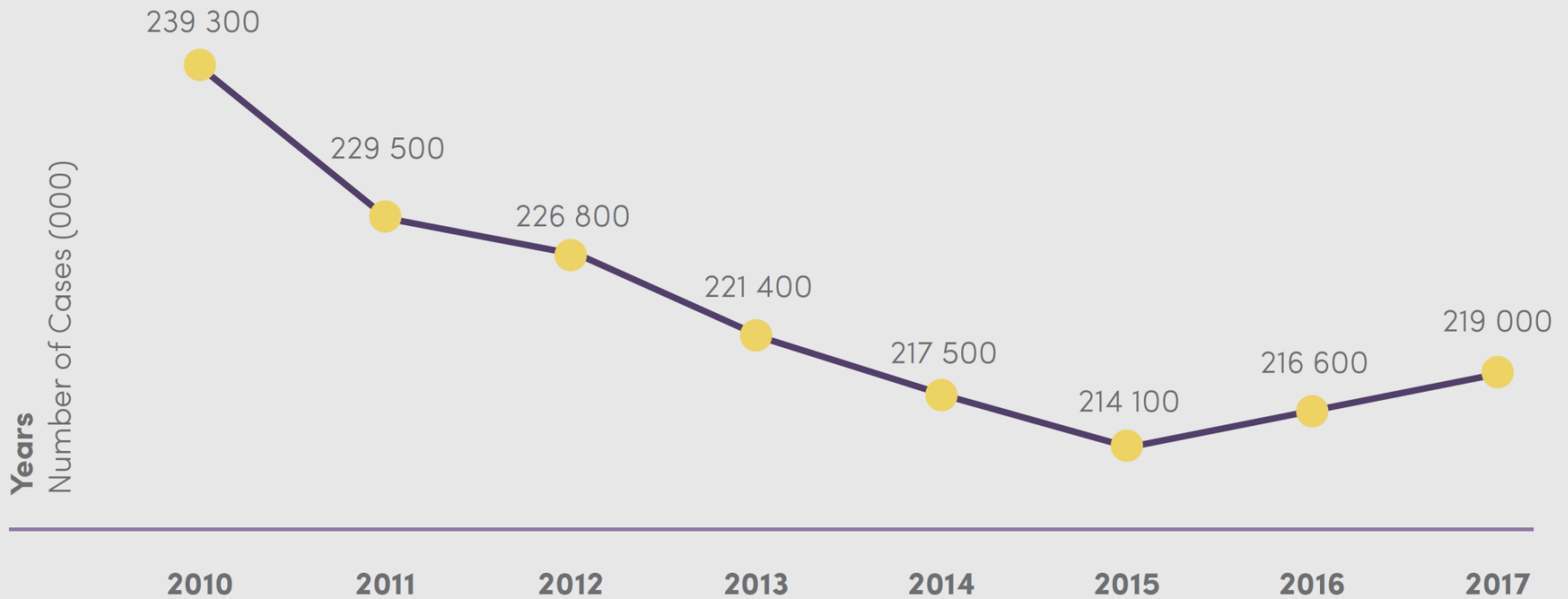
Moses Laman

29th August 2019

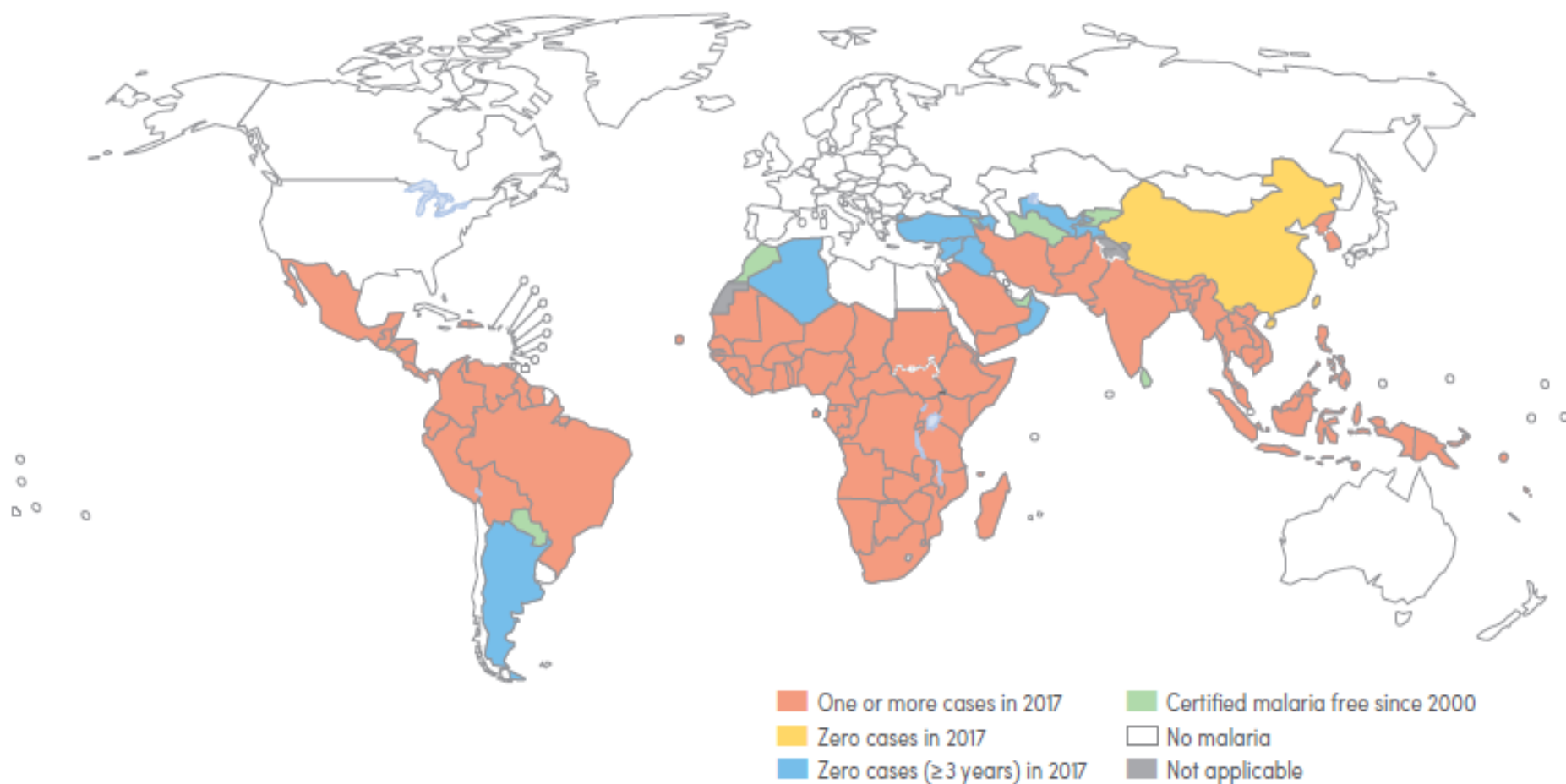
PNG Paediatric Society Meeting

Global Malaria Trends

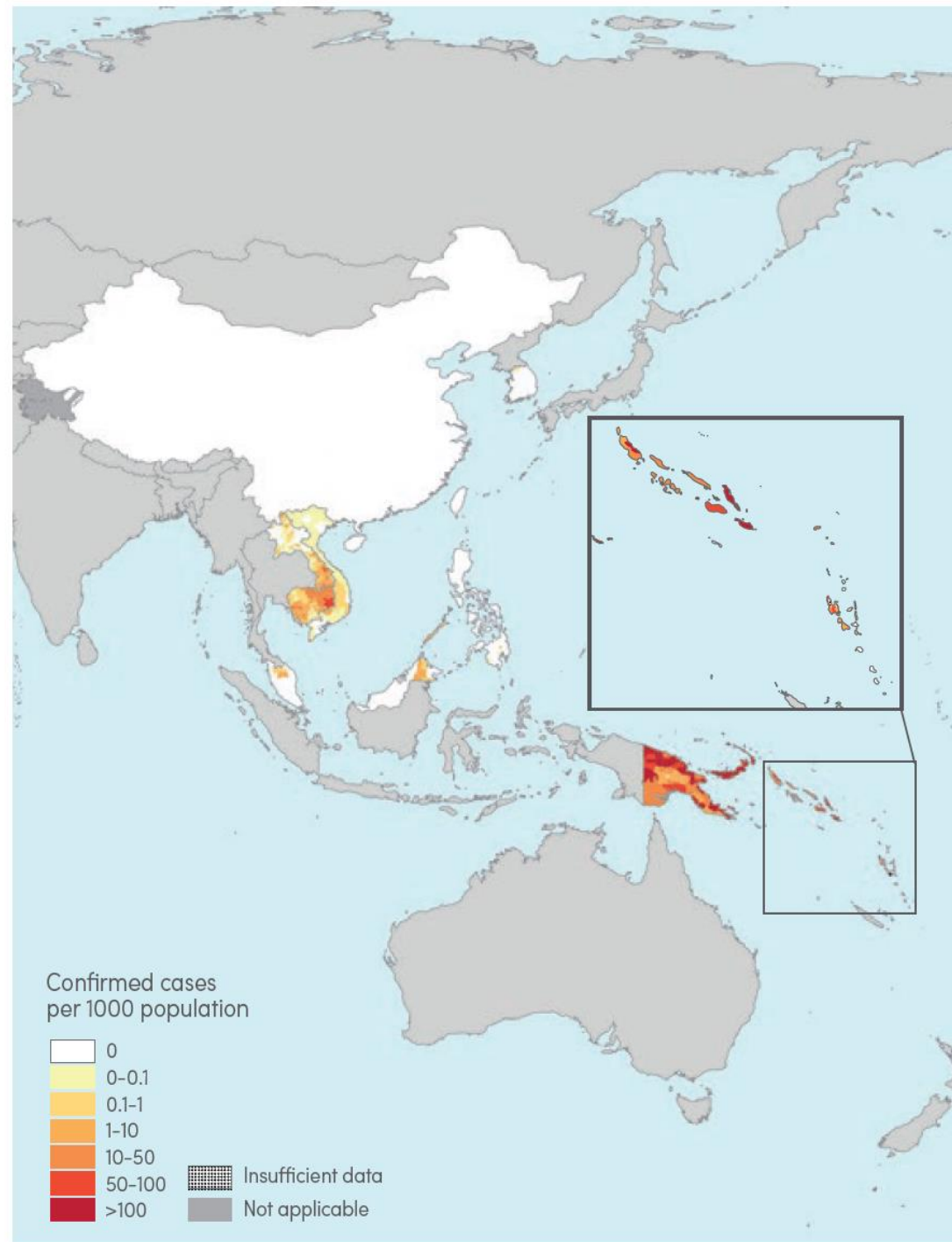
Malaria cases worldwide, 2010–2017



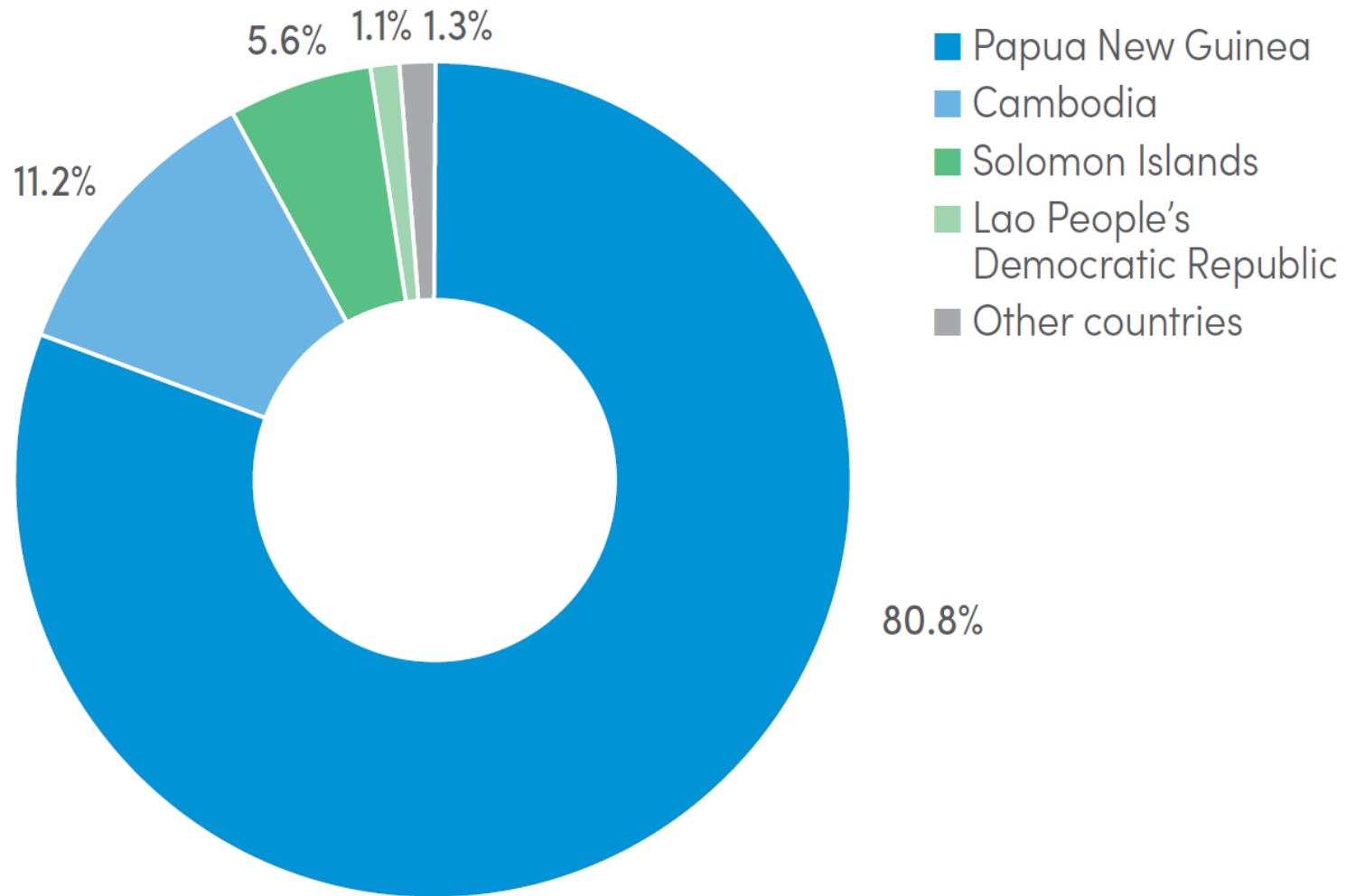
Countries with indigenous cases in 2000 and their status by 2017 Countries with zero indigenous cases over at least the past 3 consecutive years are considered to be malaria free. All countries in the WHO European Region reported zero indigenous cases in 2016 and again in 2017. In 2017, both China and El Salvador reported zero indigenous cases. *Source: WHO database.*



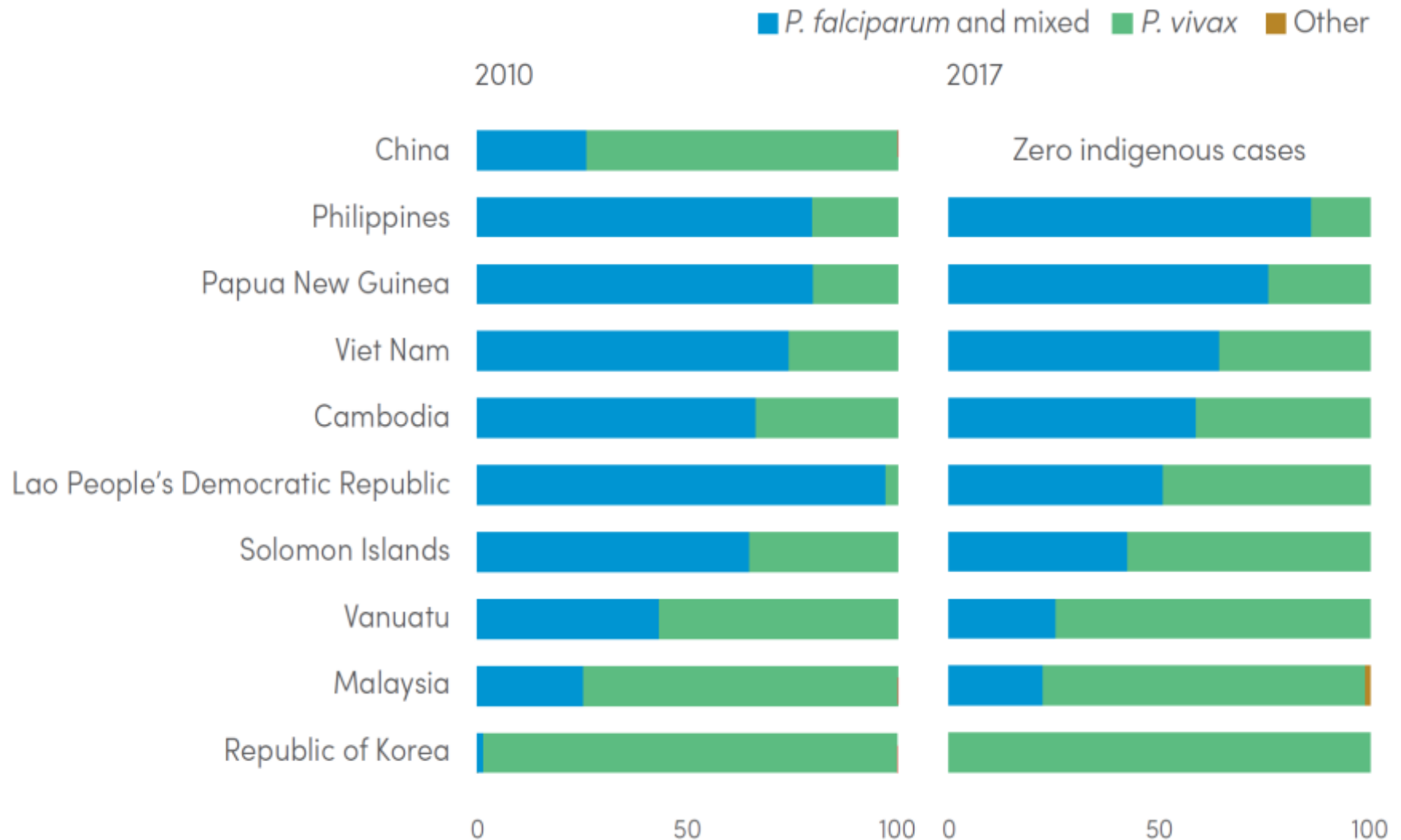
Western Pacific Region 2017 data: Confirmed malaria cases per 1000 population



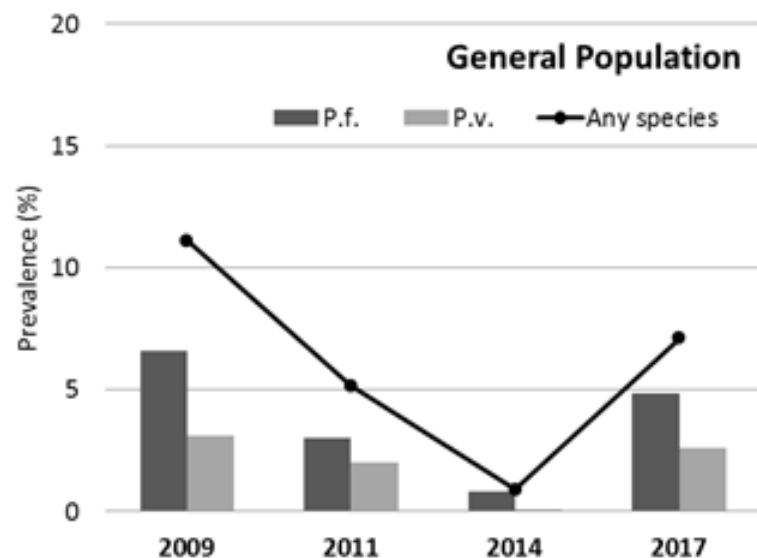
WPR: Malaria cases



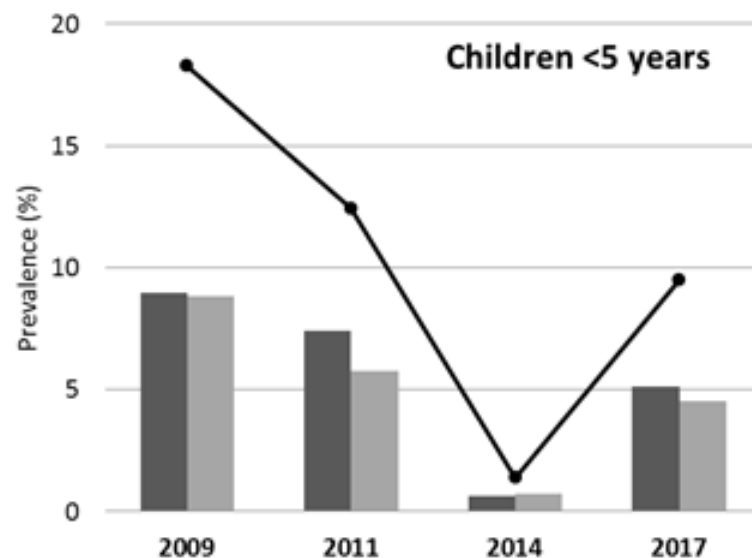
Percentage of malaria species



PNG: Trends in Malaria

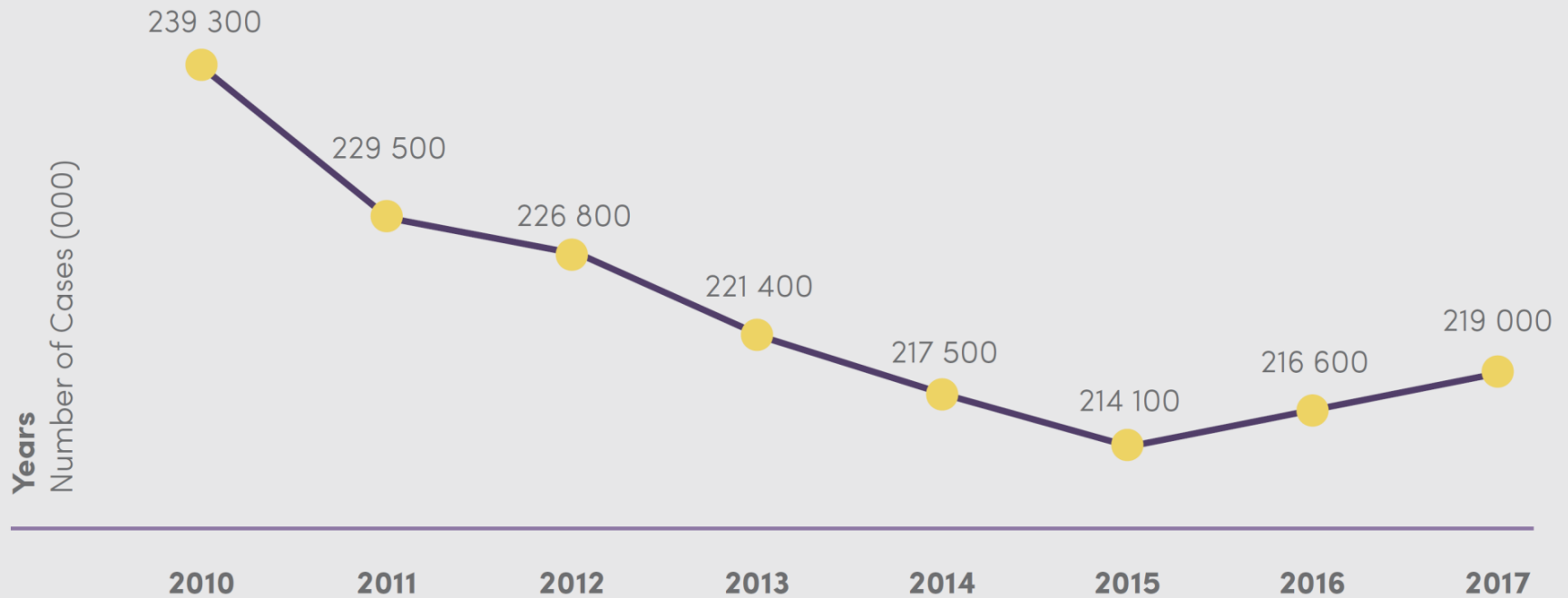


PNGIMR 2018

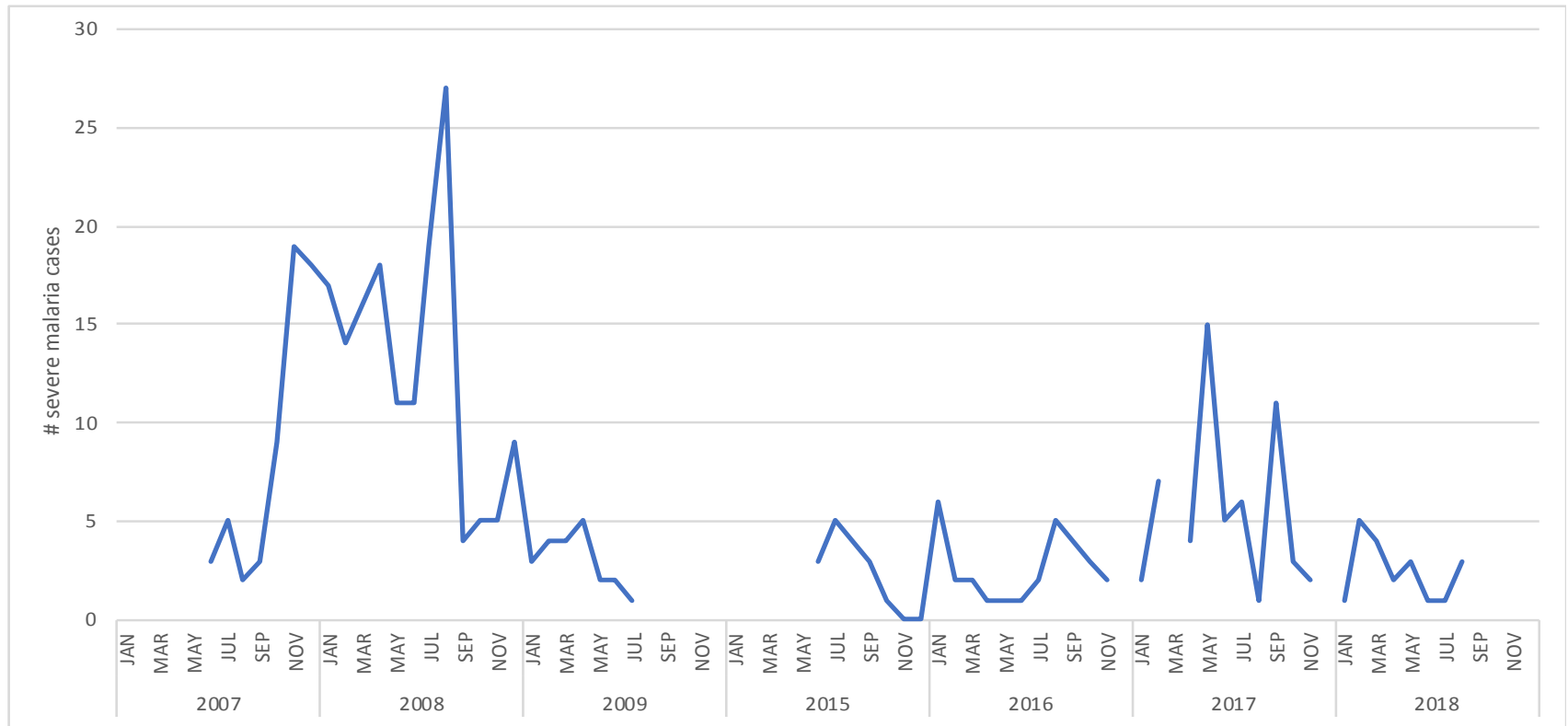


Global Malaria Trends

Malaria cases worldwide, 2010–2017



Severe malaria in children



2017: At the time of admission, 7% of children were in deep coma (BCS <2), 18% were severely anaemic and Case Fatality Rate 1%.

LATEST NEWS

Health Minister On Medical Supply And Medicine Shortages

MINISTER For Health And HIV/AIDS Sir Puka Temu Has Described Recent Media Reports On The Lack Of Medical Supplies At Hospitals And Health Facilities As Facts Whilst Most Are Exaggerations With Inaccuracies That Make The Situation Appear Worse Than It Is.

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There is No Drug Shortage, says PNG Health Minister Kapavore

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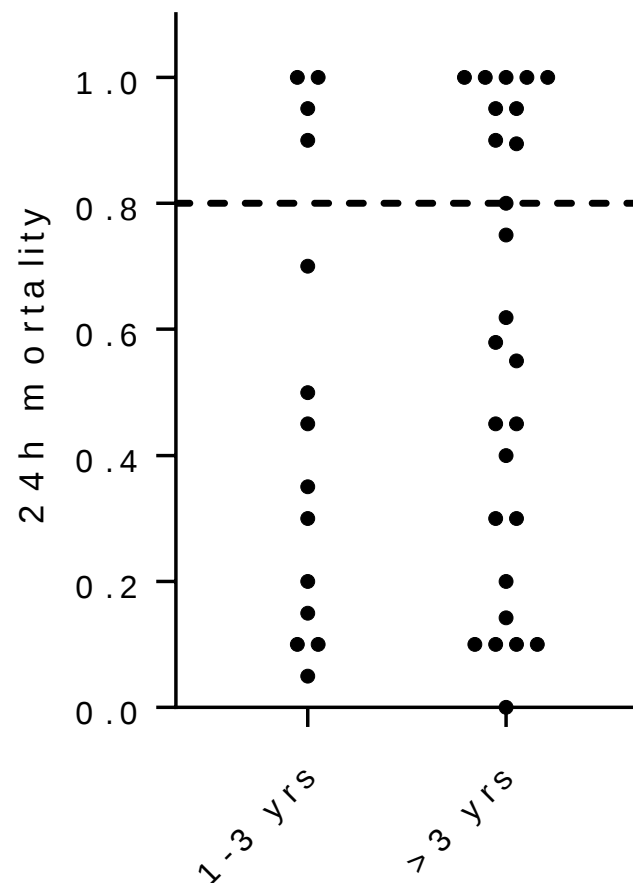
TOP STORIES

Additional K15m To Curb Drugs Shortage

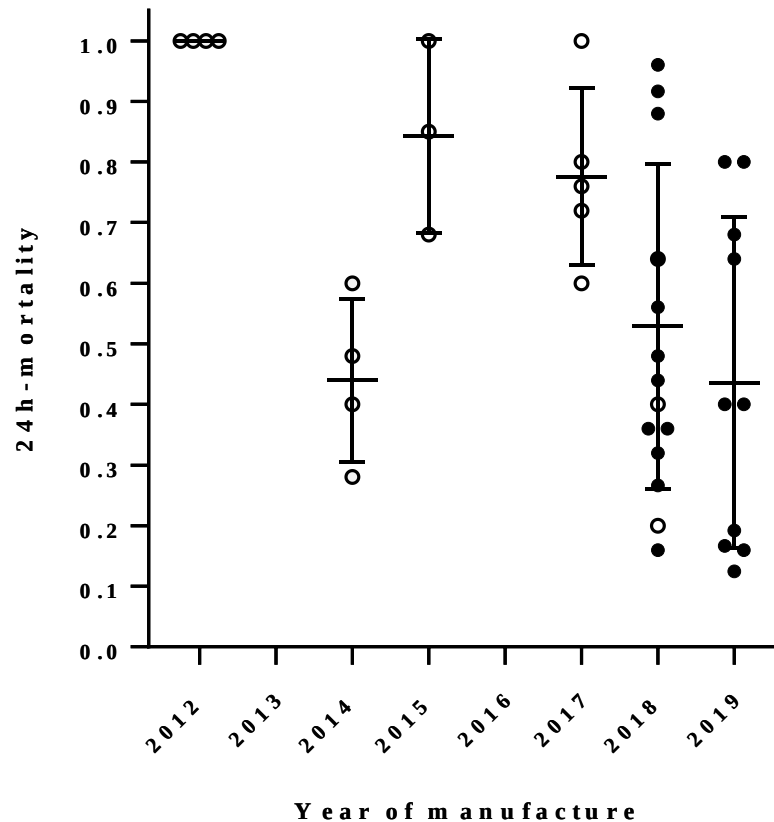
AS The Country's National Referral Hospital, Port Moresby General Hospital Has Been Allocated Additional Budget Of K15 Million By The Government To Procure Specialist Medicines And Reagents.



Bioefficacy of LLIN

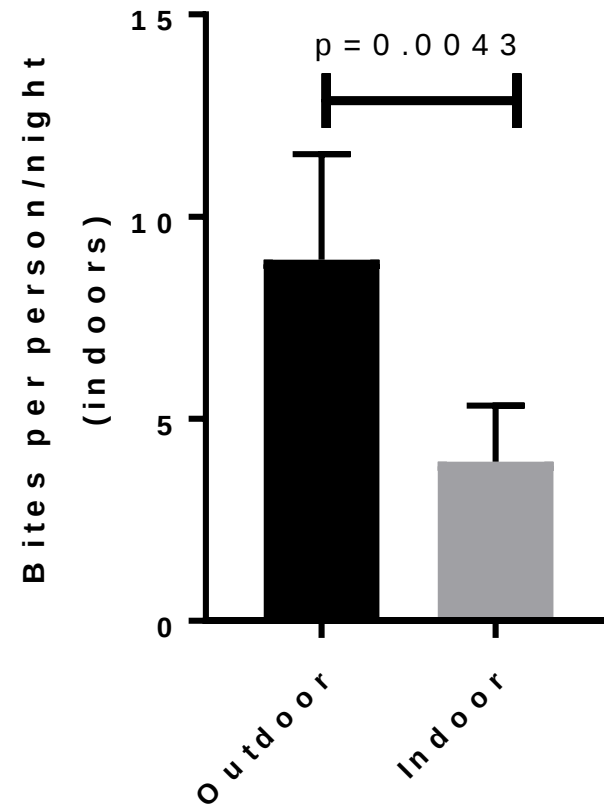


Decreased bio efficacy of long-lasting insecticidal nets

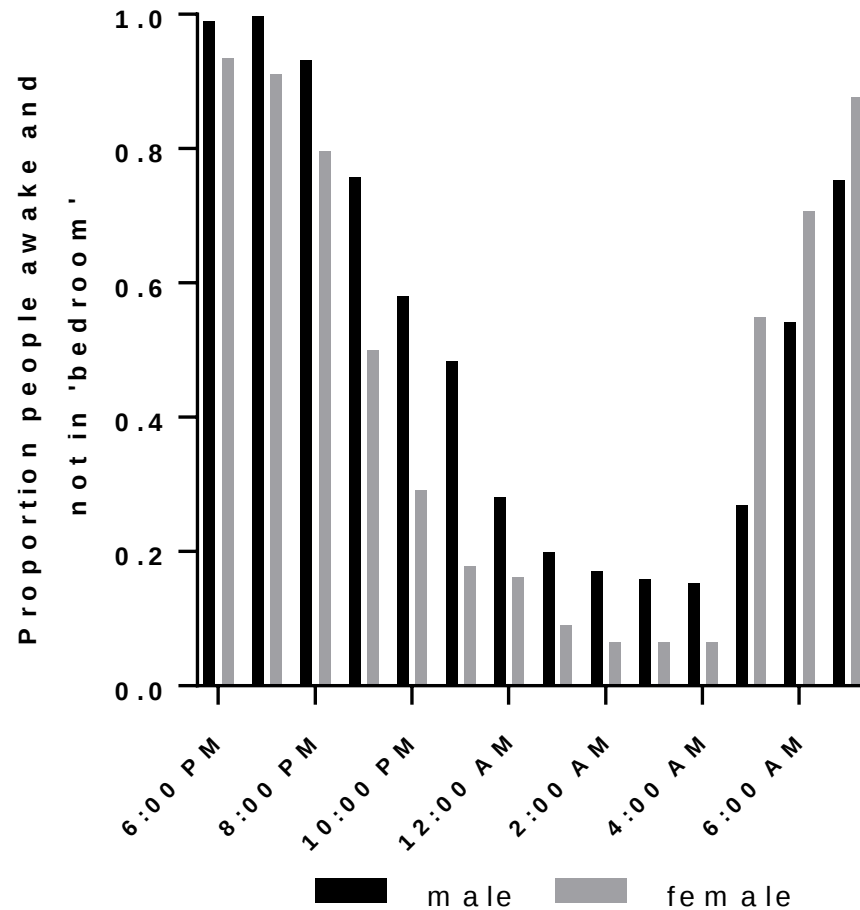


Used LLIN should exhibit 80% 24h-mortality if they are less than 3 years in use

Mosquito behaviour



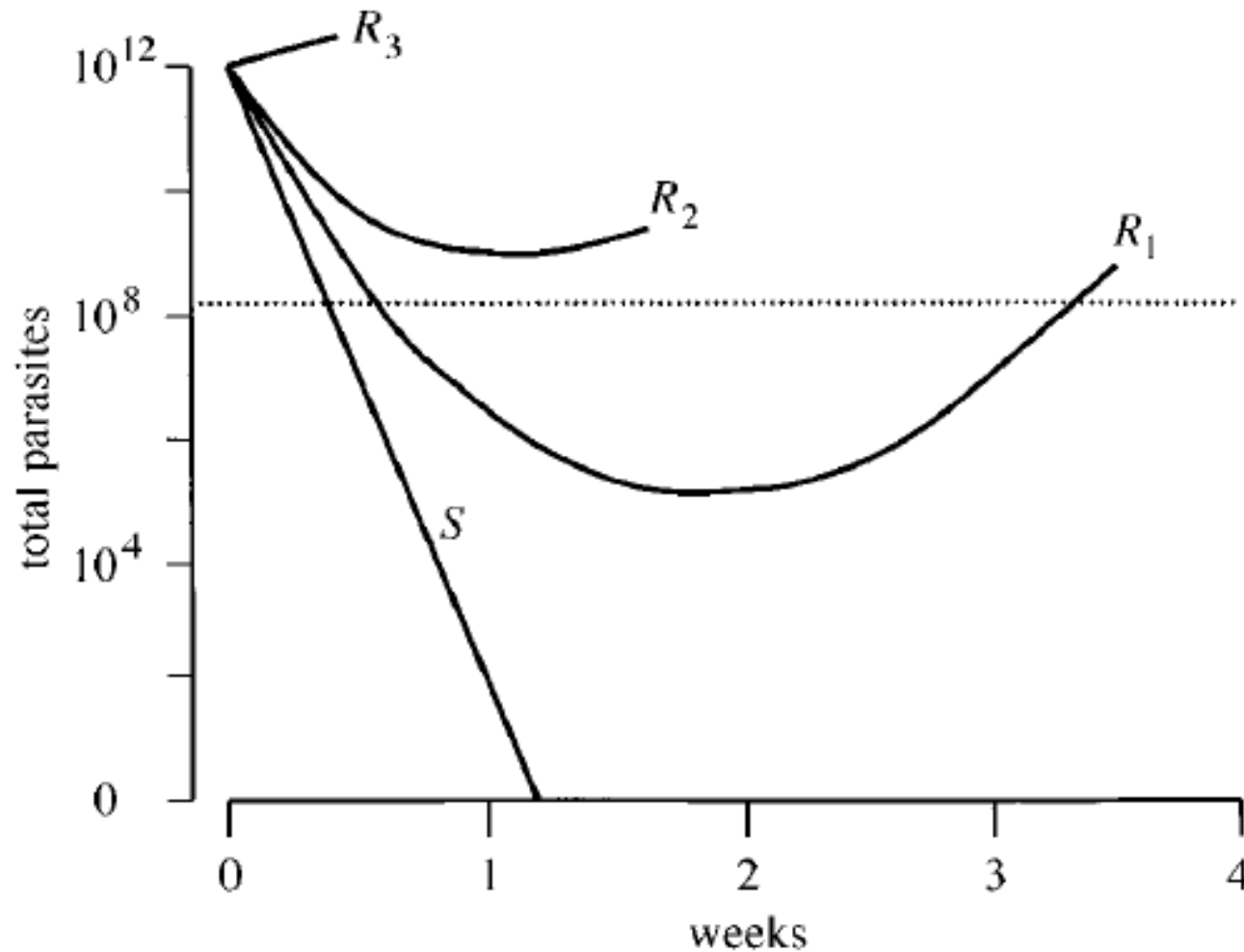
Human behaviour



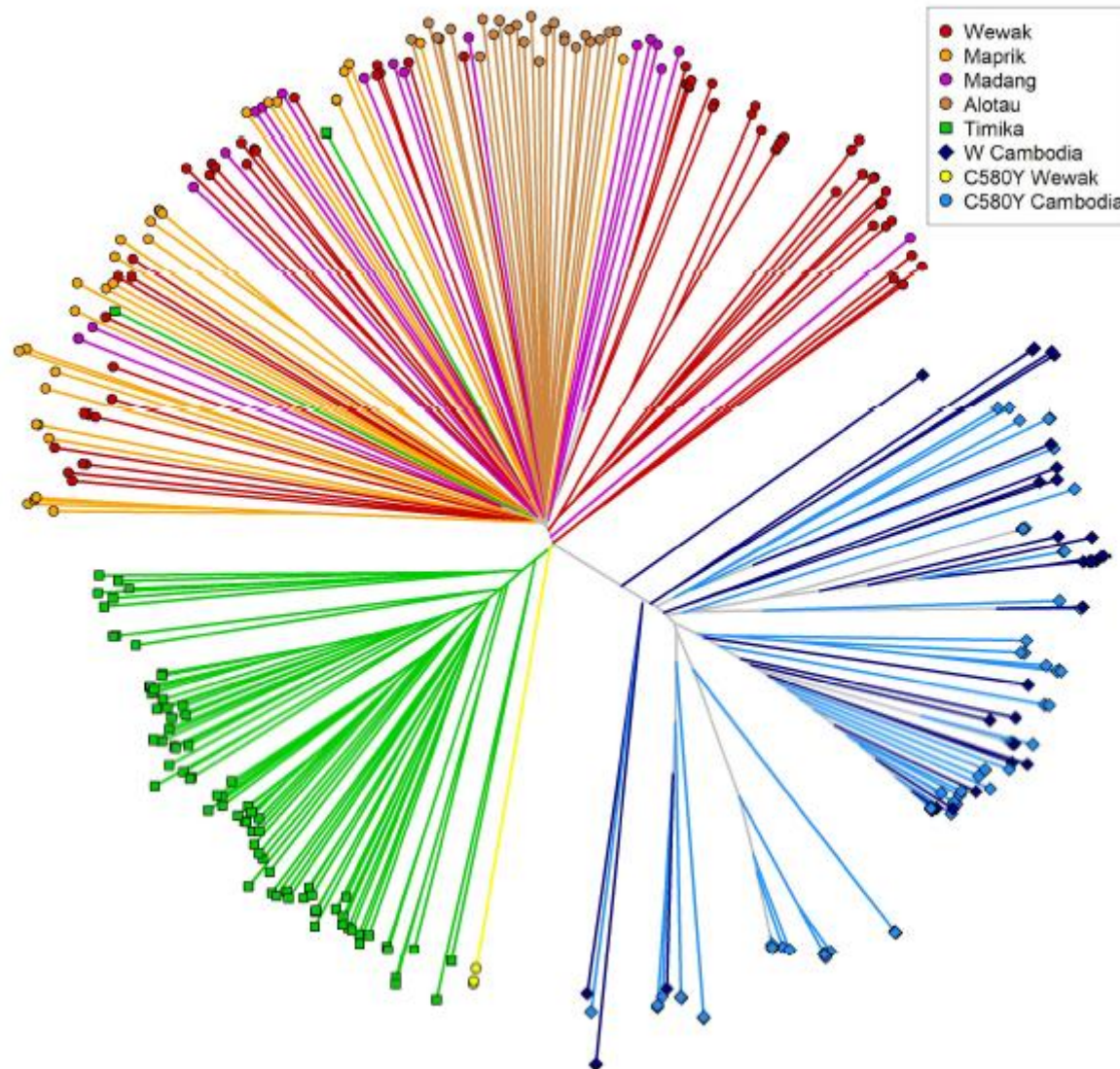
Drugs?

- 35% of antimalarial drugs in Sub-Saharan Africa failed chemical analysis
- In PNG 48% of surveyed drug providers throughout PNG failed chemical analysis
- A pilot investigation of AL quality in Madang, tested seven commercially available brands for API content
 - 23.5% of assayed tablets failed International Pharmacopoeia standards
 - 3 brands (purchased from pharmacies; all Indian manufacturers) found to be substandard

Antimalarial drug resistance



Whole genome sequencing data showing genetic relationship between samples from various geographical locations



Three PNG therapeutic efficacy studies
conducted to date suggest no delayed
parasite clearance



Summary

- Trends in malaria has been rapidly changing
 - Resurgence in recent years is likely to be multifactorial
 - LLIN decreased bioefficacy may be a significant cause in addition to other factors
 - Recent TES suggest no delayed parasite clearance although K13 molecular marker is now identified in PNG
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Acknowledgements

Many thanks to all

