

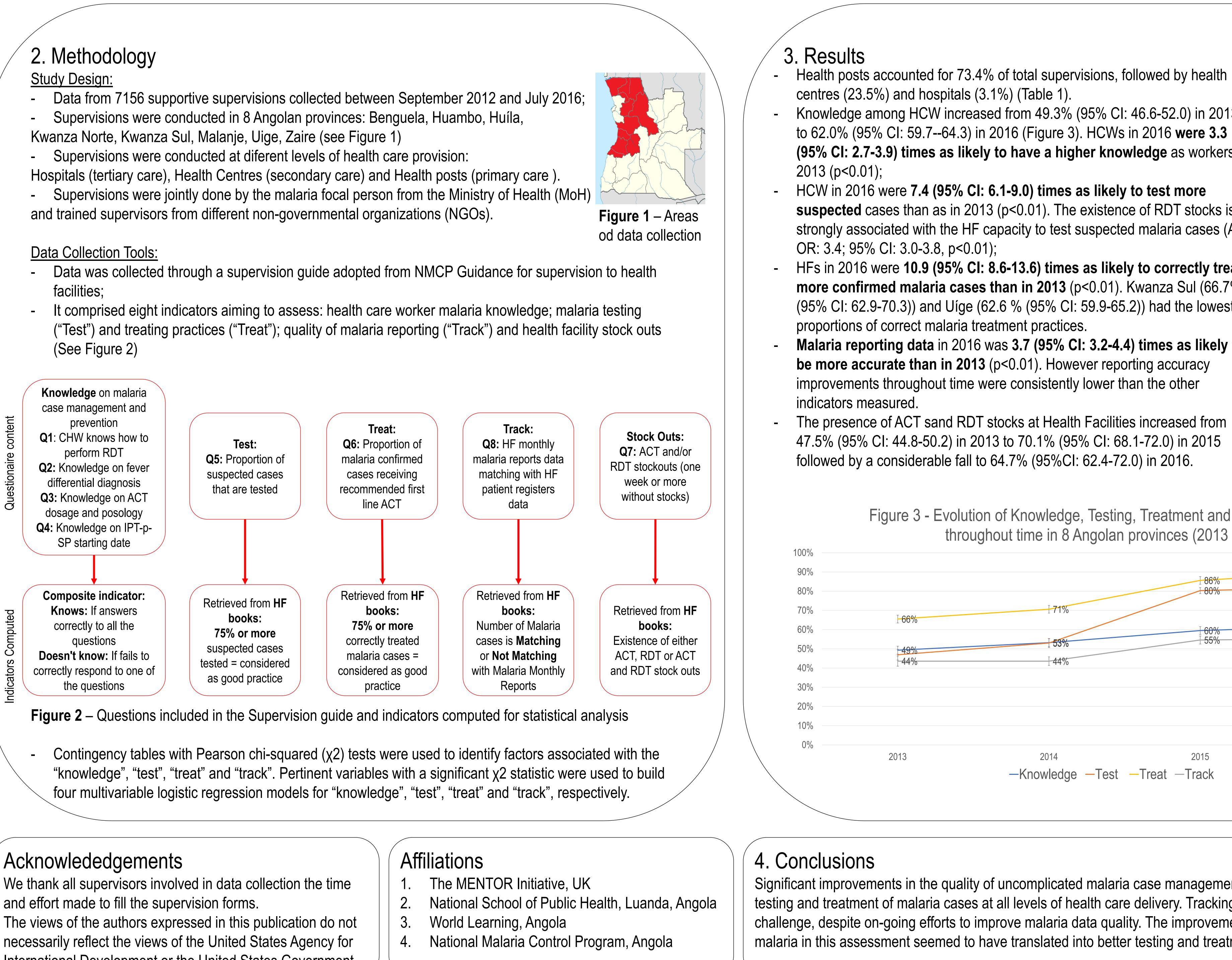
# Malaria Testing, Treating and Tracking Policy Implementation in Angola: a retrospective cross- sectional study to assess the progress achieved after 4 years of program implementation

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## 1. Introduction

Despite significant progress, Africa still accounts for 90% of malaria deaths worldwide with higher incidence in children aged less than 5. In 2012, the World Health Organization (WHO) launched T3: Test, Treat, Track initiative to ensure all suspected malaria cases were properly tested, treated and registered. In Angola, malaria is a major public health facilities. Ensuring quick and adequate diagnosis and treatment of all malaria cases is one of the strategies adopted by Angolan National Malaria Control Program (NMCP) to reduce malaria burden. In 2011, United Sates President's Malaria Initiative (PMI) funded a program to improve malaria case management in eight provinces in Angola. The program focused on providing extensive training to health workers coupled with regular supportive and describe the impact of this program on the 3Ts for malaria case management throughout program implementation.

- facilities;
- (See Figure 2)



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- Knowledge among HCW increased from 49.3% (95% CI: 46.6-52.0) in 2013 to 62.0% (95% CI: 59.7--64.3) in 2016 (Figure 3). HCWs in 2016 were 3.3 (95% CI: 2.7-3.9) times as likely to have a higher knowledge as workers in
- HCW in 2016 were 7.4 (95% CI: 6.1-9.0) times as likely to test more **suspected** cases than as in 2013 (p<0.01). The existence of RDT stocks is strongly associated with the HF capacity to test suspected malaria cases (Adj
- HFs in 2016 were 10.9 (95% CI: 8.6-13.6) times as likely to correctly treat more confirmed malaria cases than in 2013 (p<0.01). Kwanza Sul (66.7%) (95% CI: 62.9-70.3)) and Uíge (62.6 % (95% CI: 59.9-65.2)) had the lowest
- Malaria reporting data in 2016 was 3.7 (95% CI: 3.2-4.4) times as likely to **be more accurate than in 2013** (p<0.01). However reporting accuracy improvements throughout time were consistently lower than the other
- The presence of ACT sand RDT stocks at Health Facilities increased from 47.5% (95% CI: 44.8-50.2) in 2013 to 70.1% (95% CI: 68.1-72.0) in 2015 followed by a considerable fall to 64.7% (95%CI: 62.4-72.0) in 2016.

Figure 3 - Evolution of Knowledge, Testing, Treatment and Tracking Indicators throughout time in 8 Angolan provinces (2013 - 2016)

Significant improvements in the quality of uncomplicated malaria case management were observed, particularly related to testing and treatment of malaria cases at all levels of health care delivery. Tracking of malaria cases continues to pose a challenge, despite on-going efforts to improve malaria data quality. The improvements registered in knowledge about malaria in this assessment seemed to have translated into better testing and treatment practices.



Table 1 – Distribution	n of	
supervisions by year	r, provin	ce and
type of health facility	/	
	n (N=	
	7156)	%
Year		
2013	1335	18.7
2014	1882	26.3
2015	2178	30.4
2016	1761	24.6
Province		
Benguela	1233	17.2
Huambo	792	11.1
Huila	761	10.6
Kwanza Norte	901	12.6
Kwanza Sul	654	9.1
Malanje	658	9.2
Uige	1316	18.4
Zaire	841	11.8
Health Facility		
Health posts	5251	73.4
Health centres	1683	23.5
Hospitals	222	3.1

I 86% I 80%	I 90% I 82%	
I 60% I 55%	62% 55%	
2015	2016	
-Track		