

ACTwatch

Evidence for Malaria Medicine Policy

Availability, Volumes, Price and Use of Antimalarials in Zambia: Household survey 2009 and Trends across 2008/2009 outlet surveys

Felton Mpasela on behalf of *ACTwatch Team*



What is ACTwatch?

5 year, 7 country study funded by BMGF



Objective
Provide policy makers with evidence on trends in availability, price, & use of antimalarials

Partnership
PSI, LSHTM & Ministries of Health

The Research Studies



Outlet Survey (PSI):

What are the trends in the availability, volumes and price of antimalarials?

Periodic (3 - 4) surveys conducted over the life of the project.



Supply Chain Research (LSHTM):

What are the determinants of the price and availability of AMs at different levels of the supply chain?

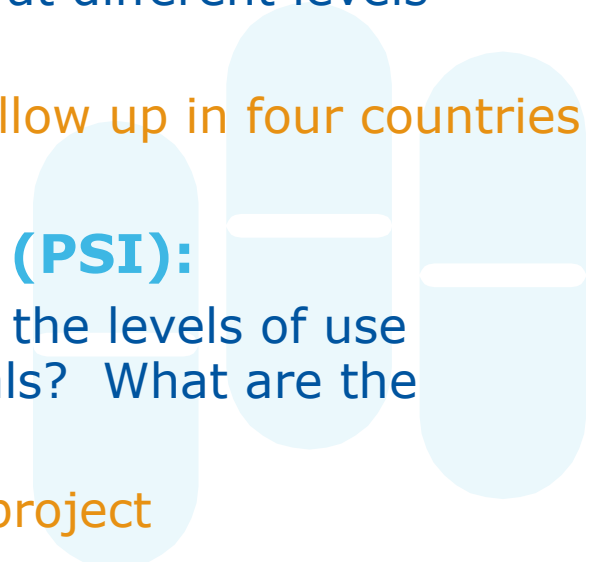
Baseline survey and follow up in four countries



Household Survey (PSI):

What are the trends in the levels of use of different antimalarials? What are the determinants of use?

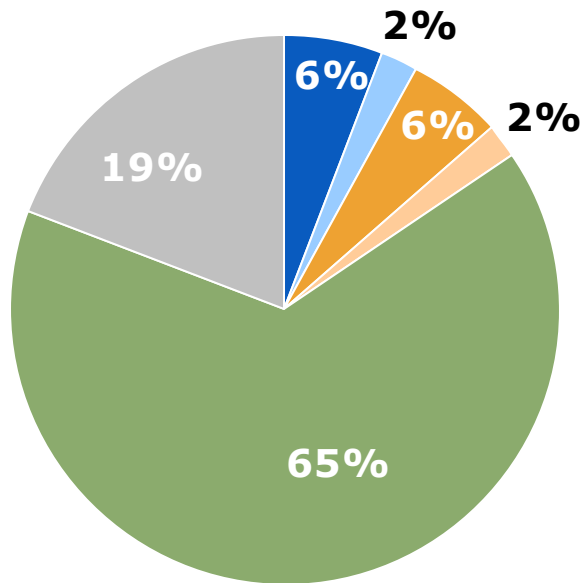
Two times over life of project



Diversity of Outlet Types Visited

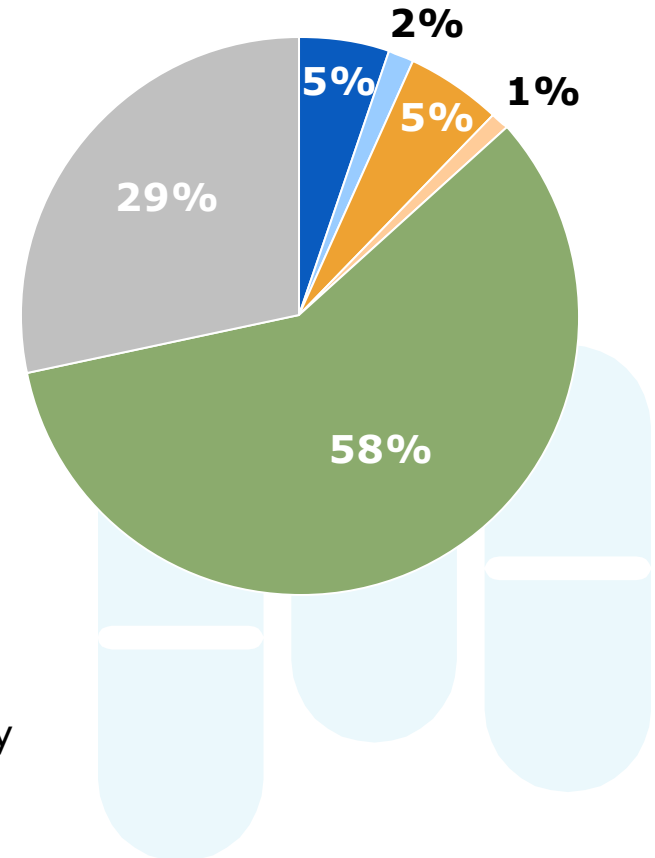
Outlet Survey 1: 2008

n=2288



Outlet Survey 2: 2009

n=3840

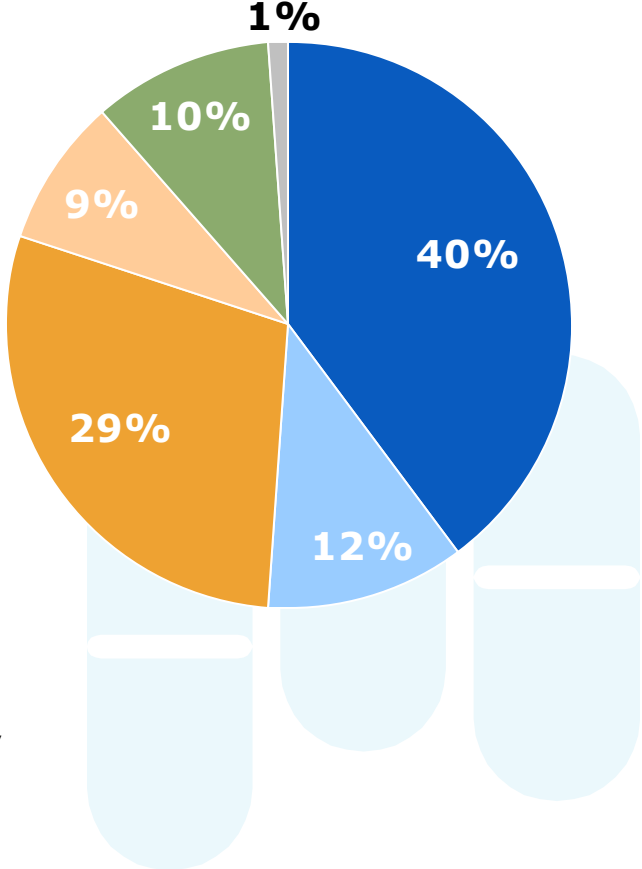
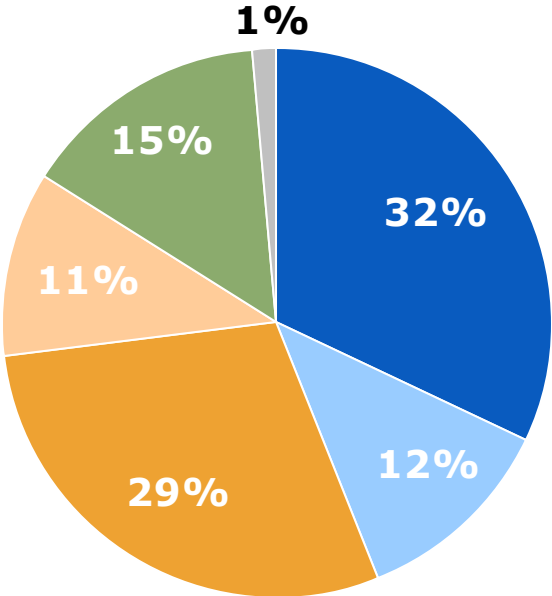


- Public Health Facility
- Part One Pharmacy
- Drug Store
- Private Health Facility
- Grocery
- Other Outlets

Diversity of Outlet Types Visited with AMs

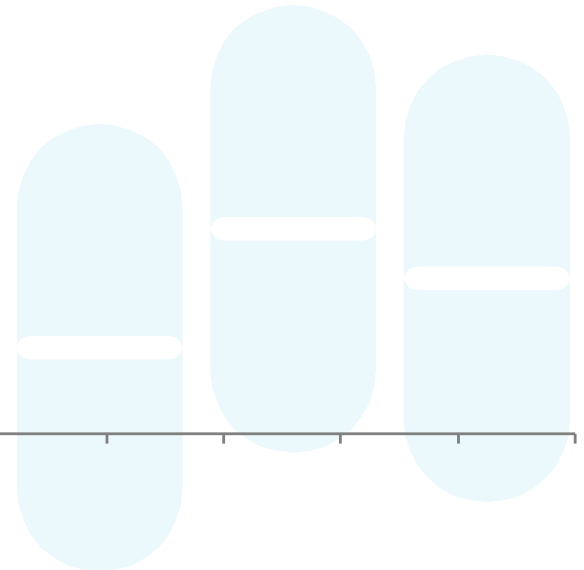
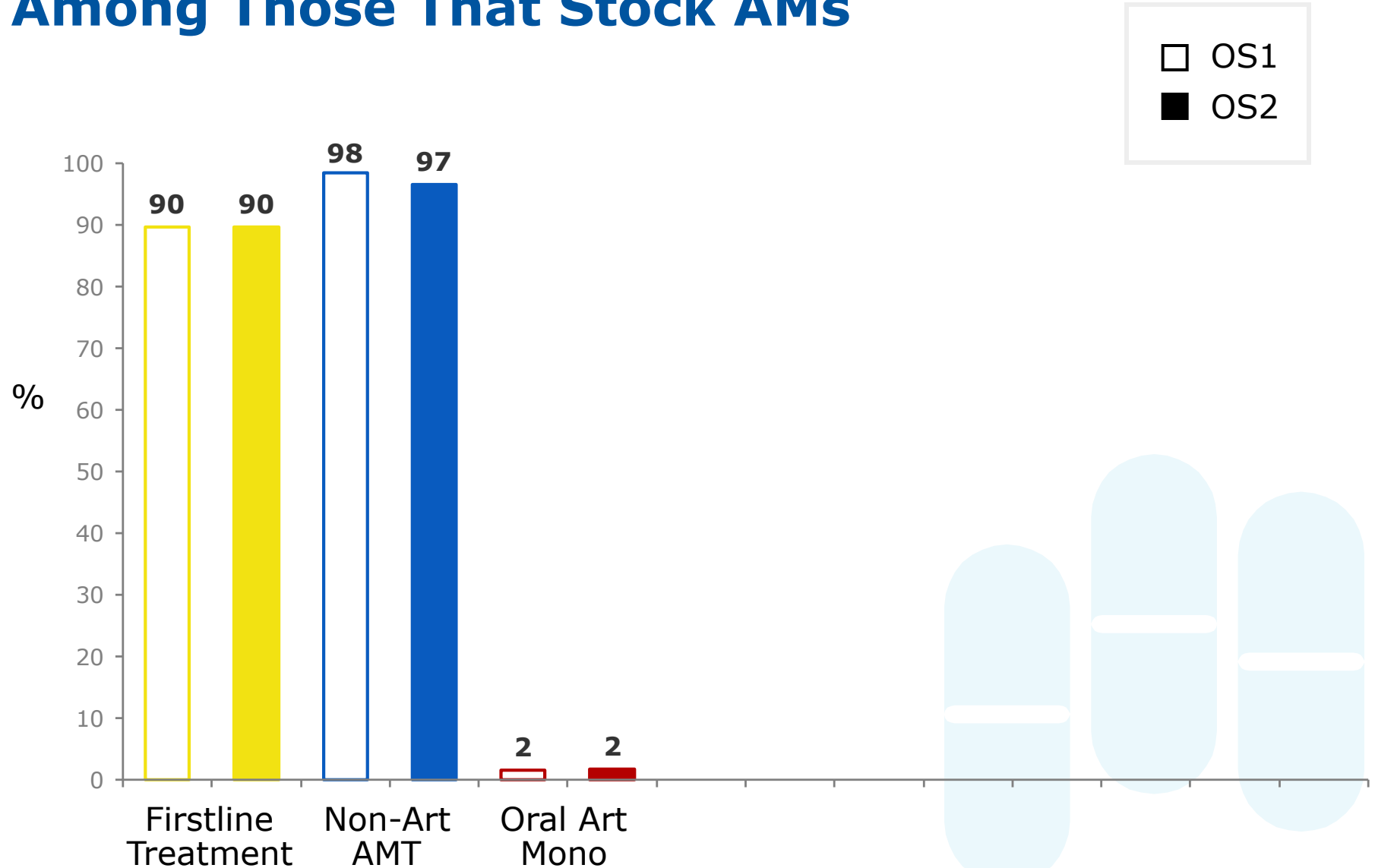
OS1
n=390

OS2
n=442

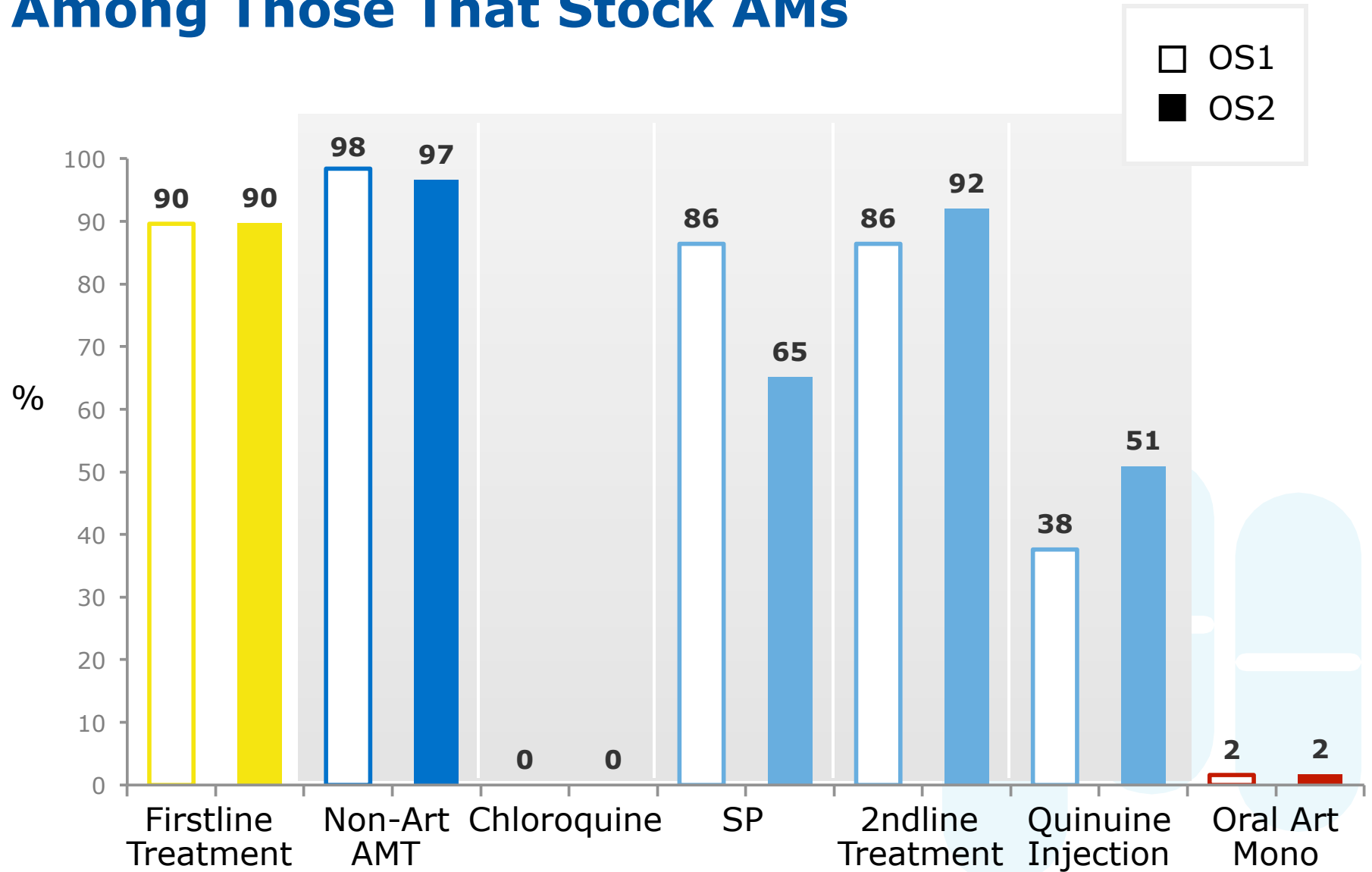


- Public Health Facility
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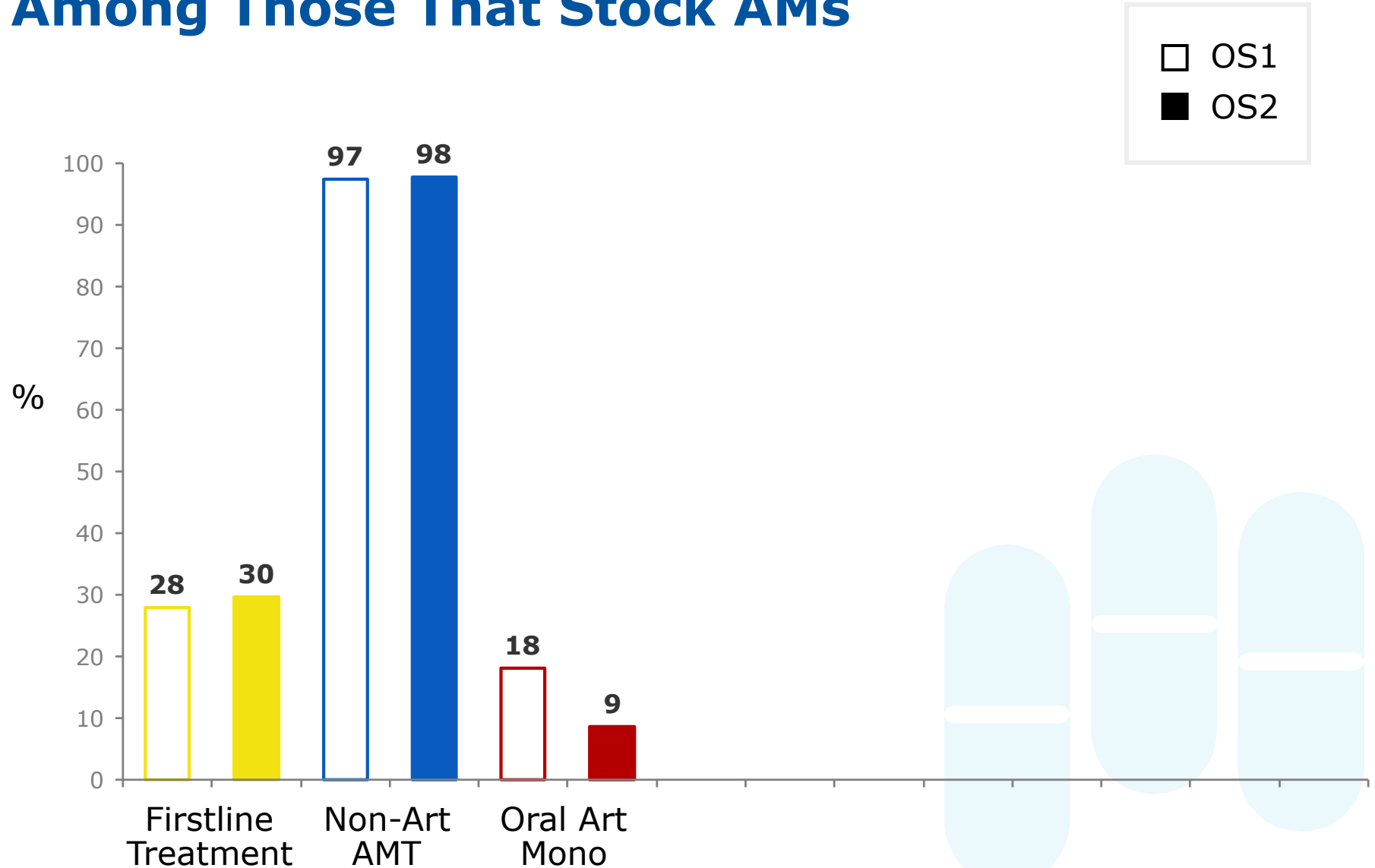
Availability of Antimalarials by Public Sector Among Those That Stock AMs



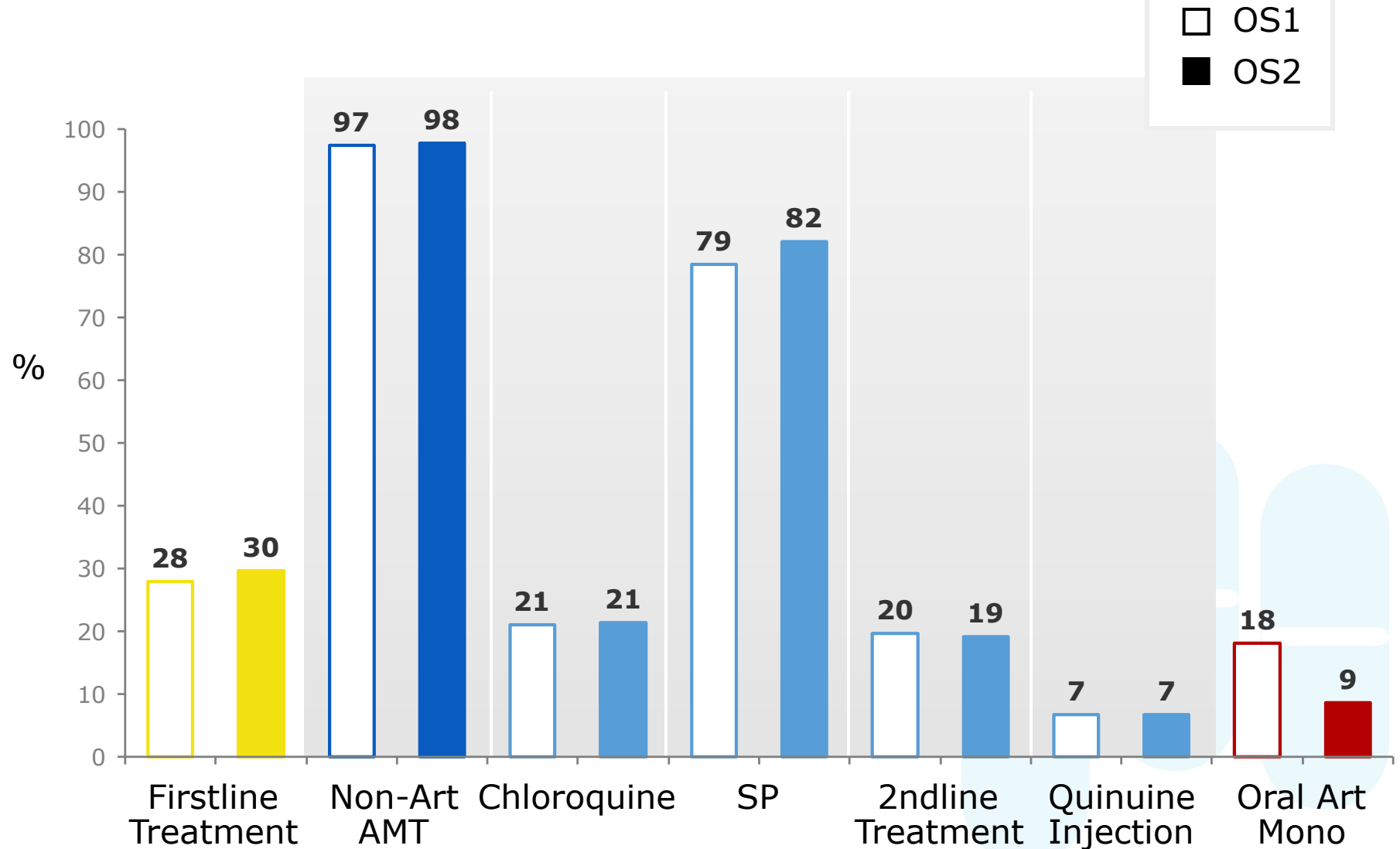
Availability of Antimalarials by Public Sector Among Those That Stock AMs



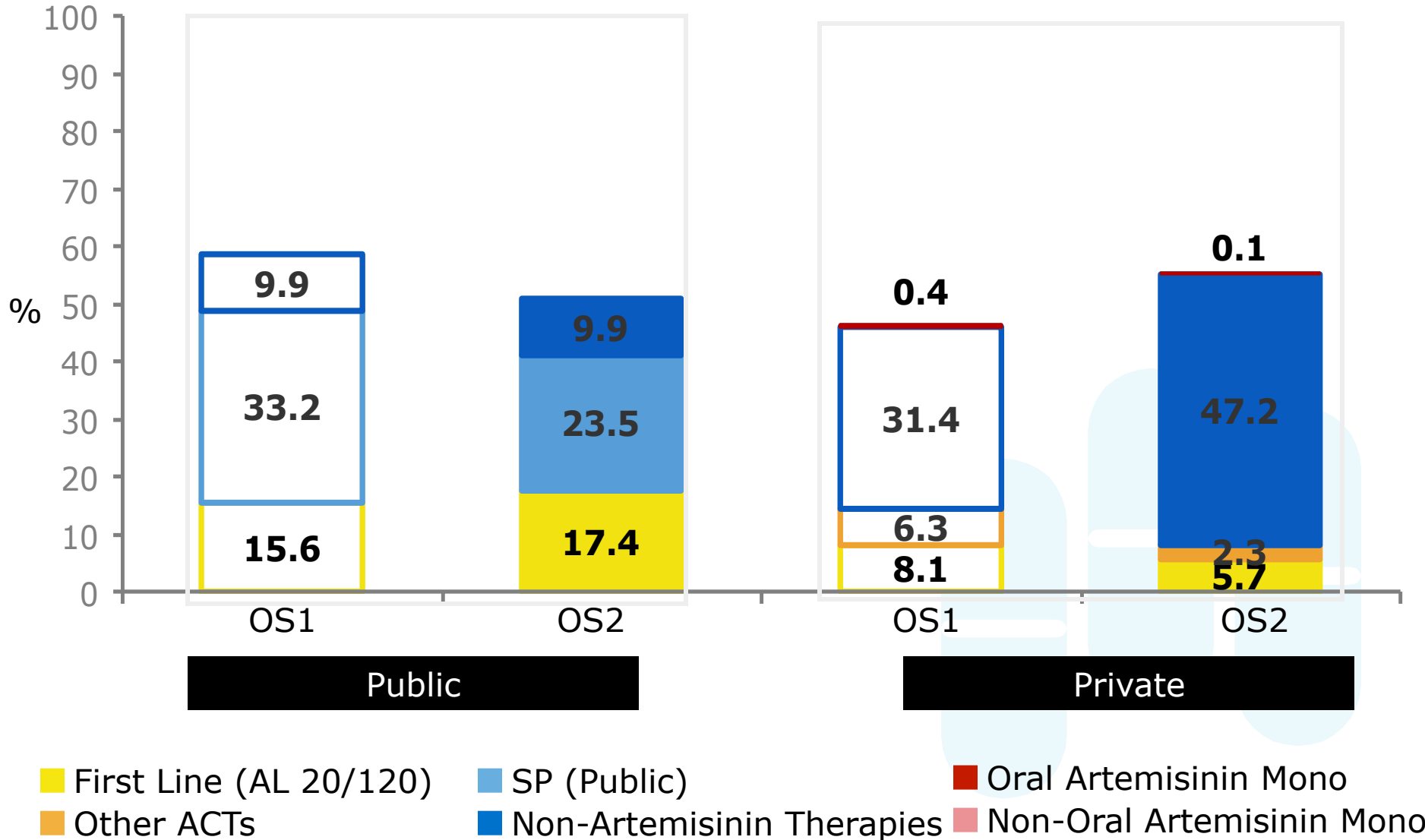
Availability of Antimalarials by Private Sector Among Those That Stock AMs



Availability of Antimalarials by Private Sector Among Those That Stock AMs



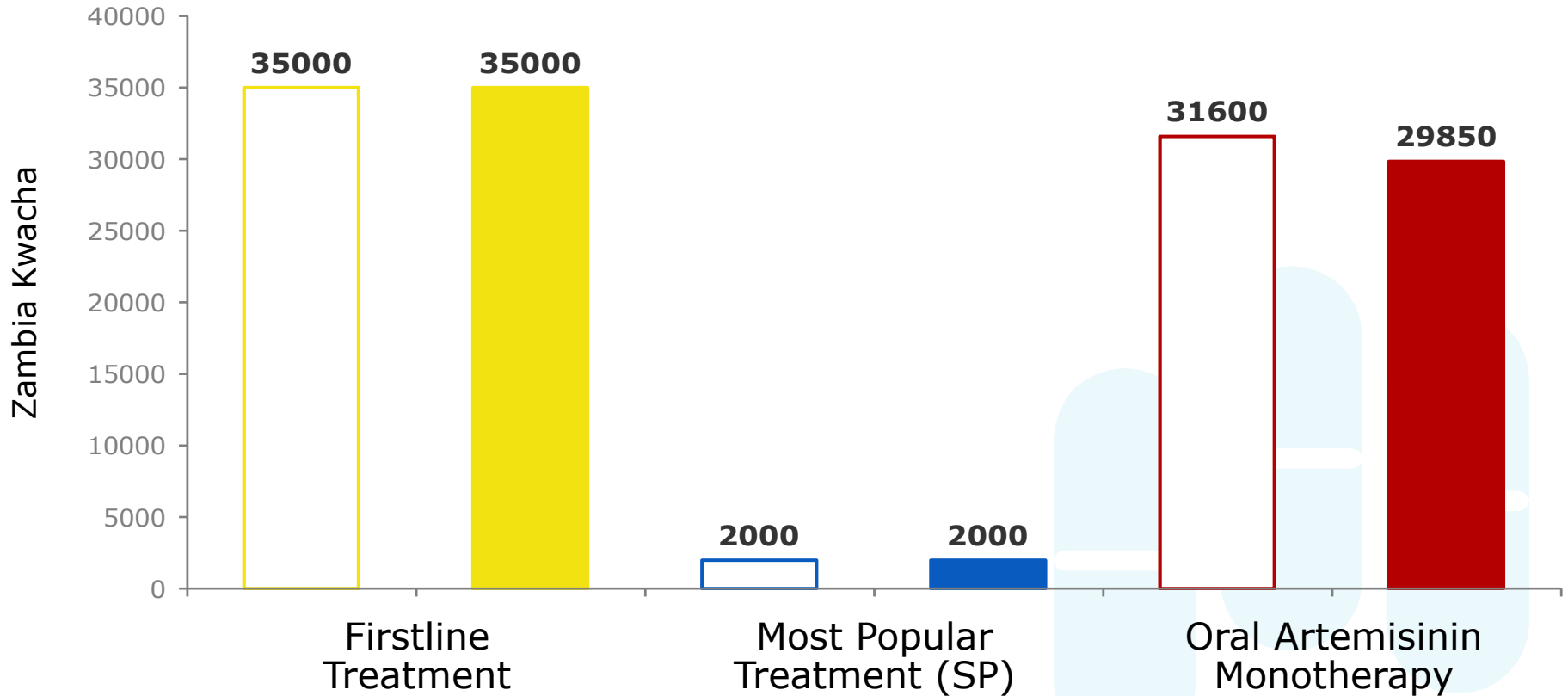
Relative Volumes of Antimalarials Distributed by Sector and Drug Type



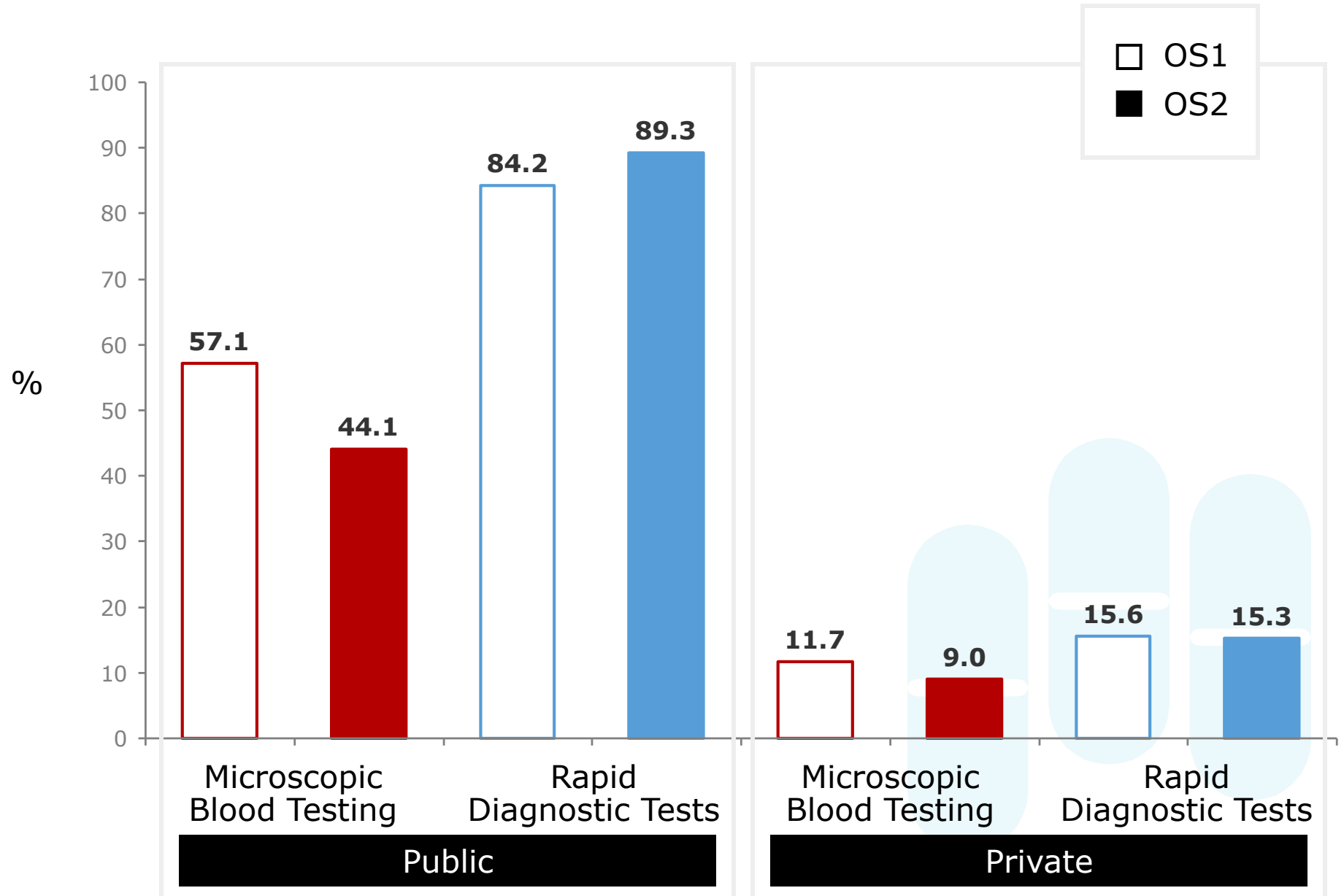
Median Price of a Full Adult Course of AMs by Sector

Median price (OS1,OS2) = 0 in Public Sector

□ OS1
■ OS2

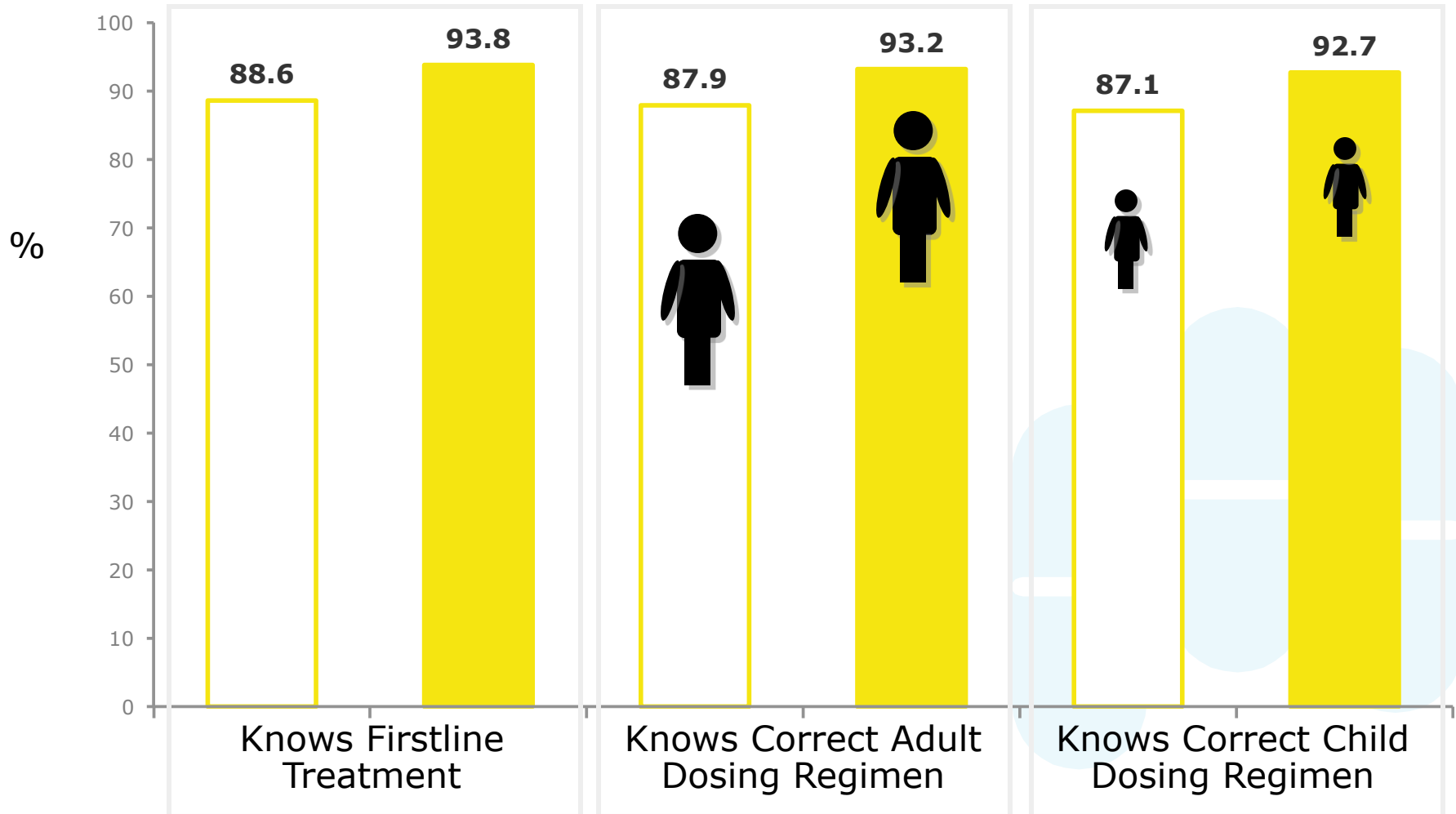


Availability of Diagnostic Blood Testing



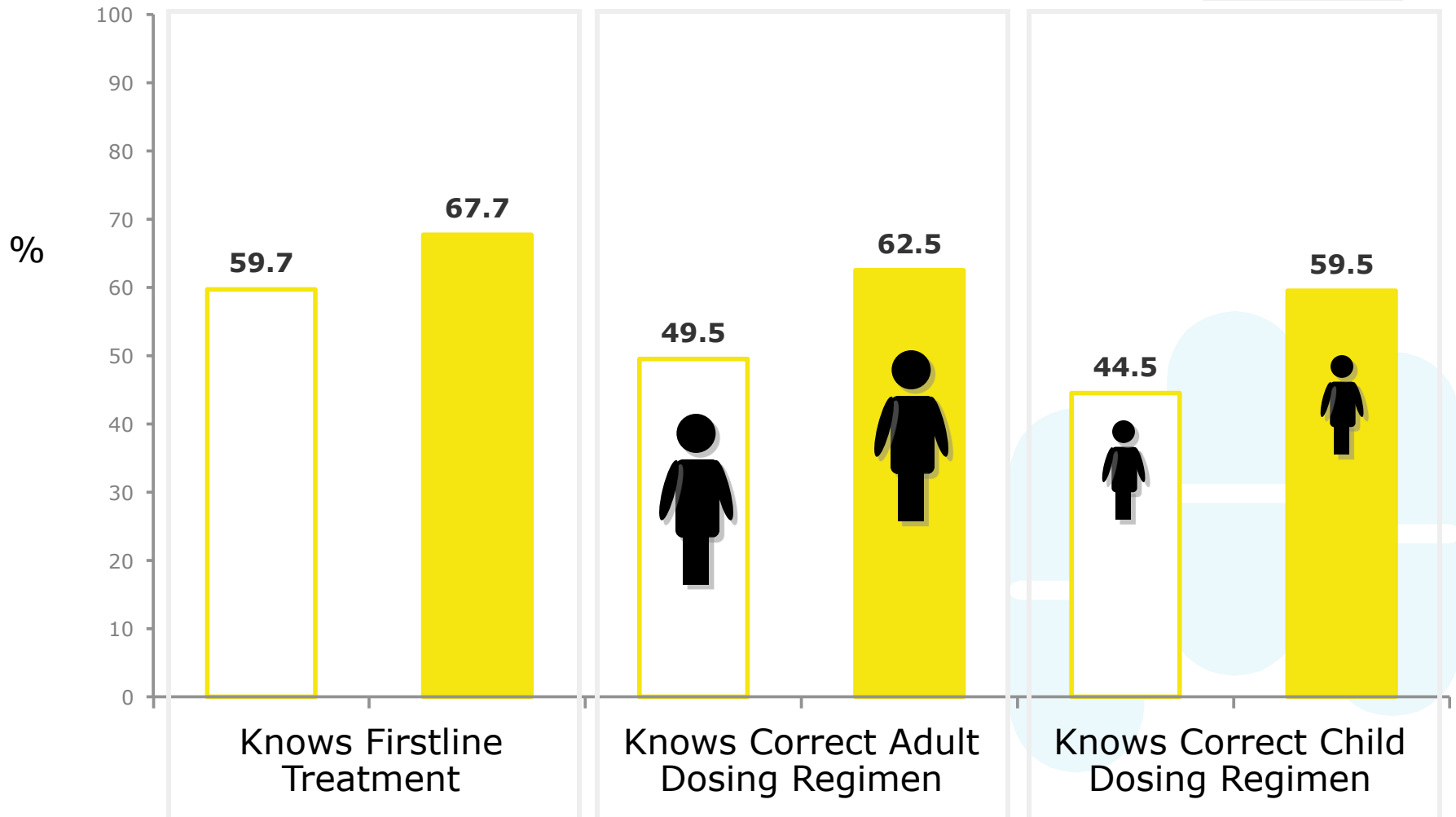
Provider Knowledge of First-Line Treatment and Dosing Regimens by Public Sector

□ OS1
■ OS2



Provider Knowledge of First-Line Treatment and Dosing Regimens by Private Sector

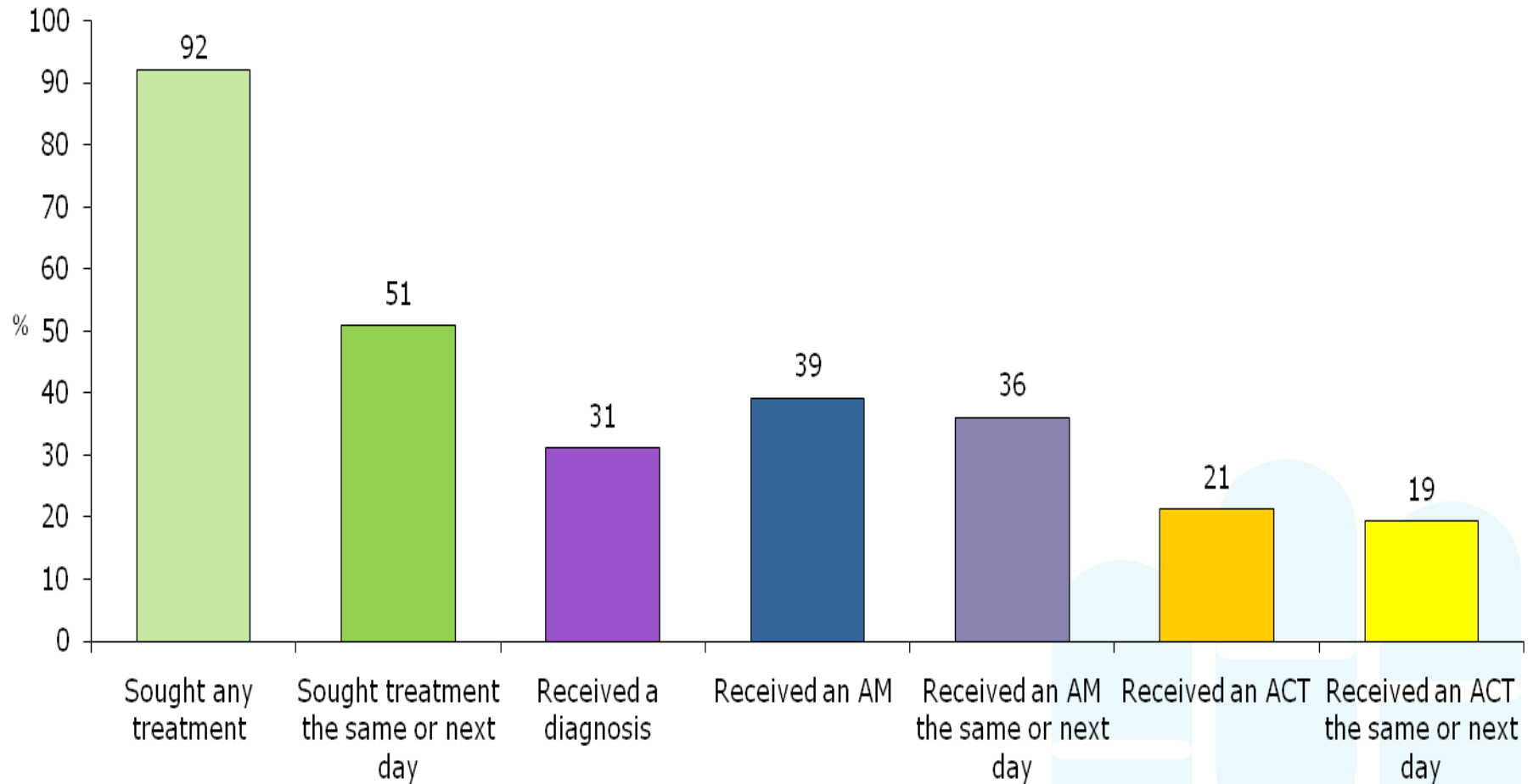
□ OS1
■ OS2



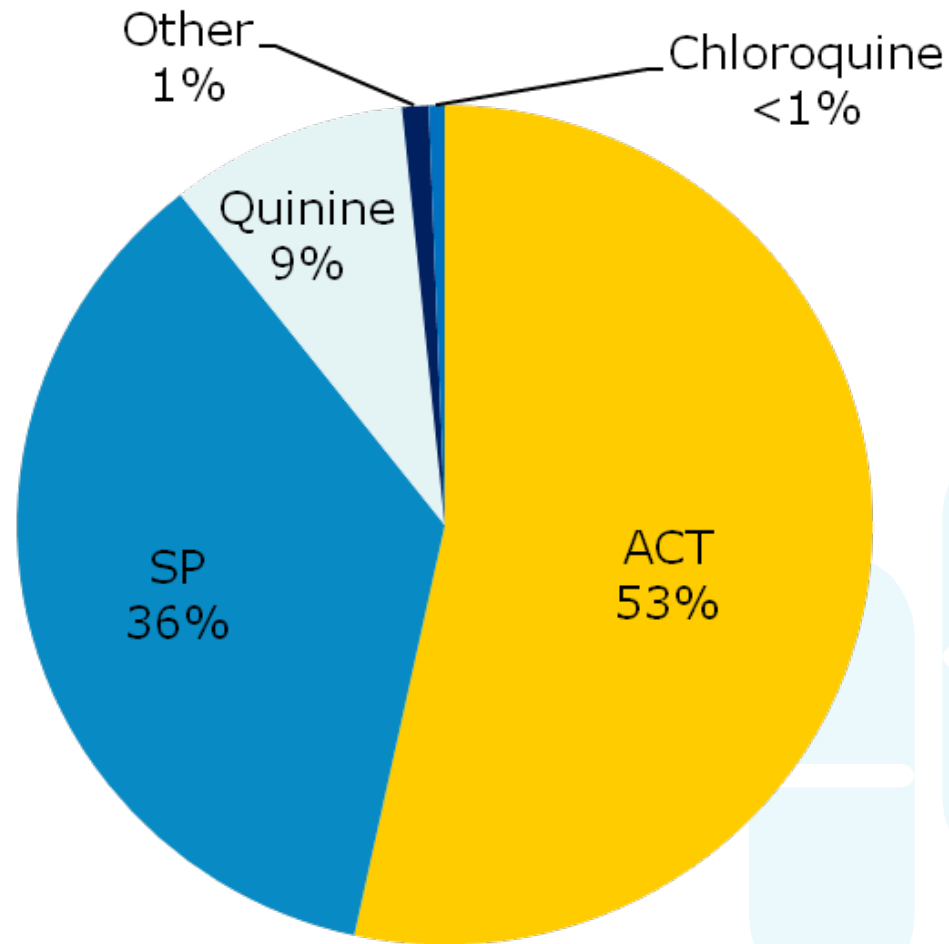
HOUSEHOLD SURVEY 2009 RESULTS



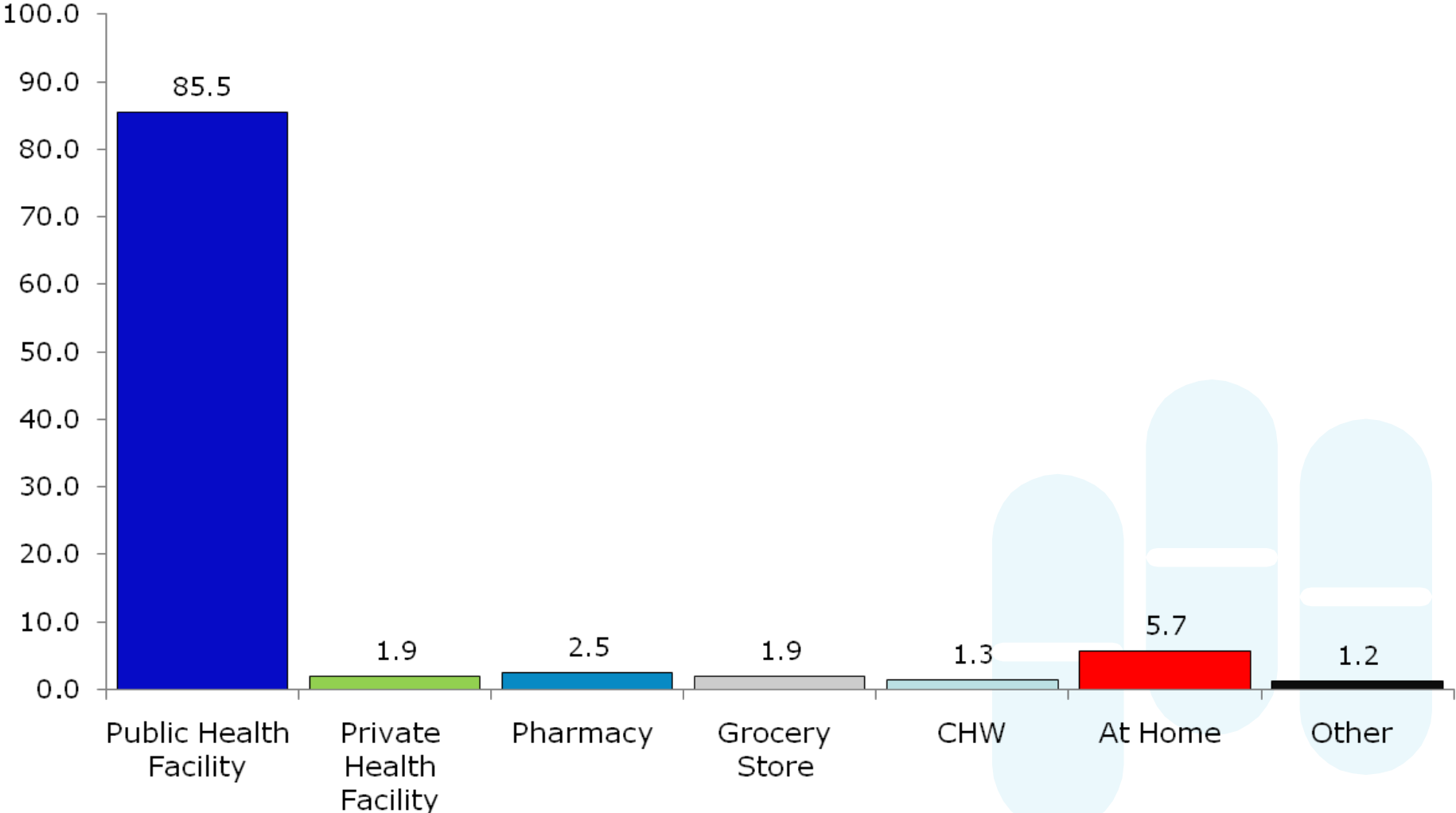
Treatment of Fever in Children under Five



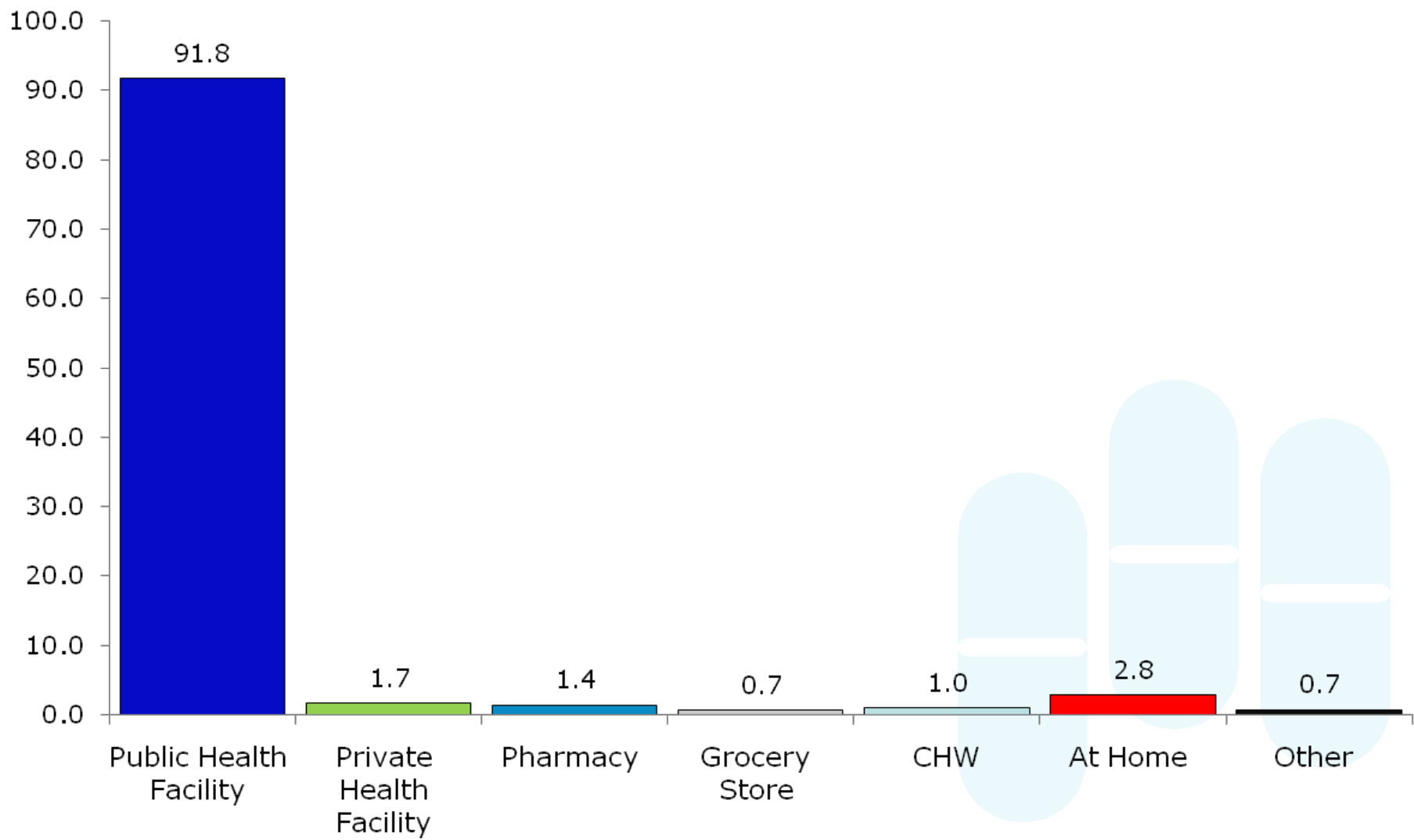
Type of Antimalarial Treatment Acquired for Children under Five with Fever



Source of Antimalarial Treatment, Among Children Treated with an Antimalarial

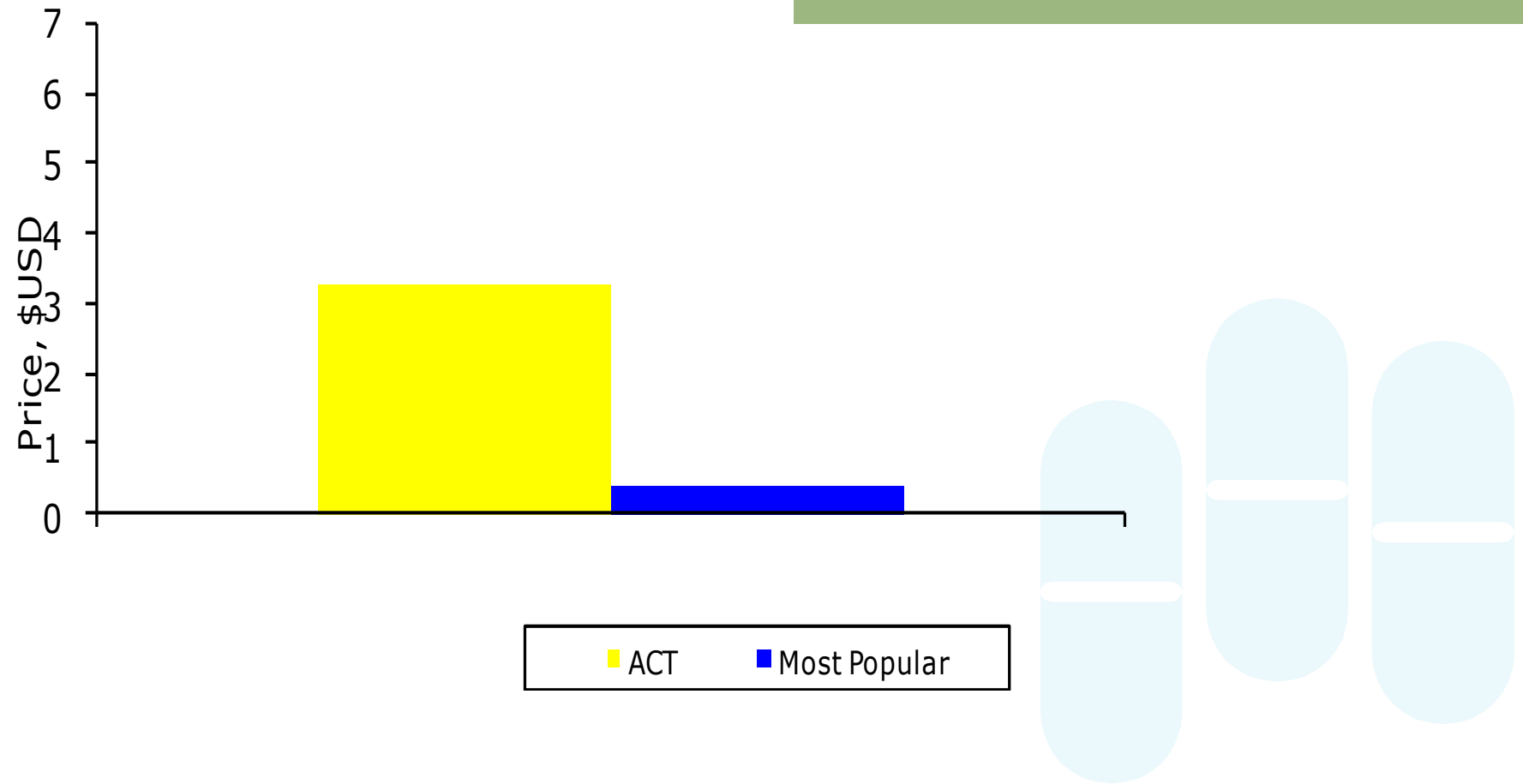


Source of ACTs Among Children Treated with an ACT

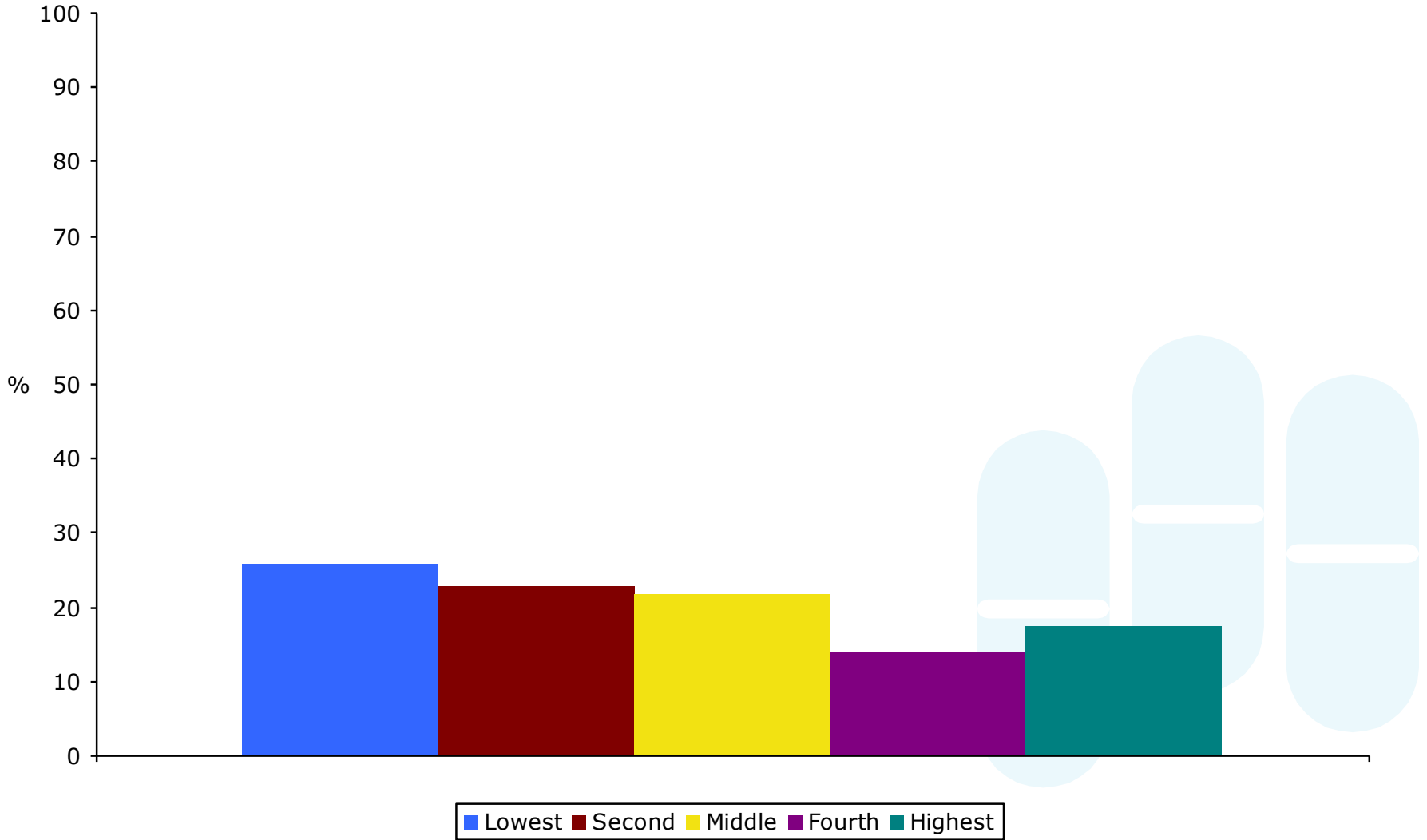


Median Price Paid for Antimalarial Treatment Acquired for a Child with Fever

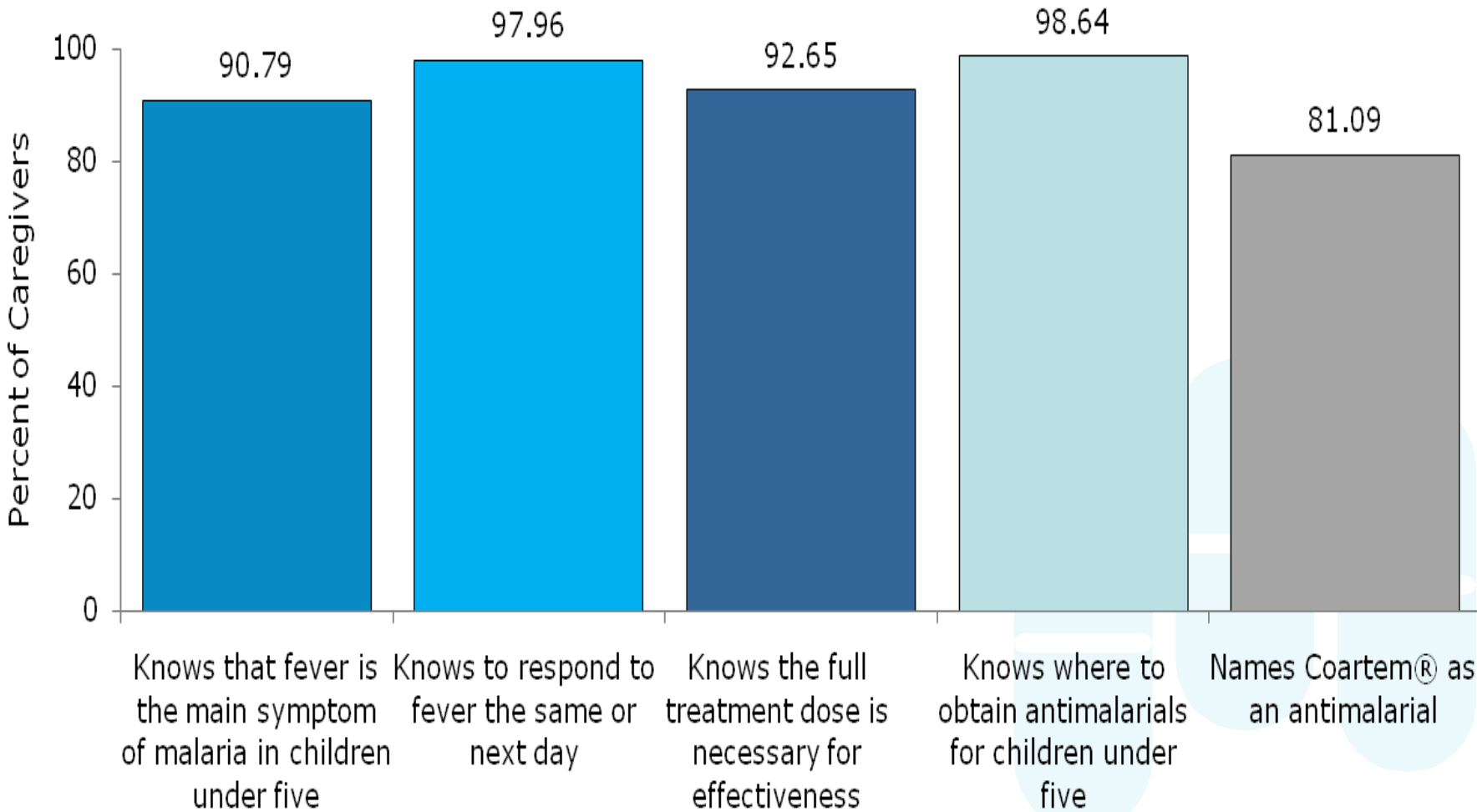
Median price = 0 in Public Sector



Proportion of Children that Received an ACT, Across Household Wealth Quintiles



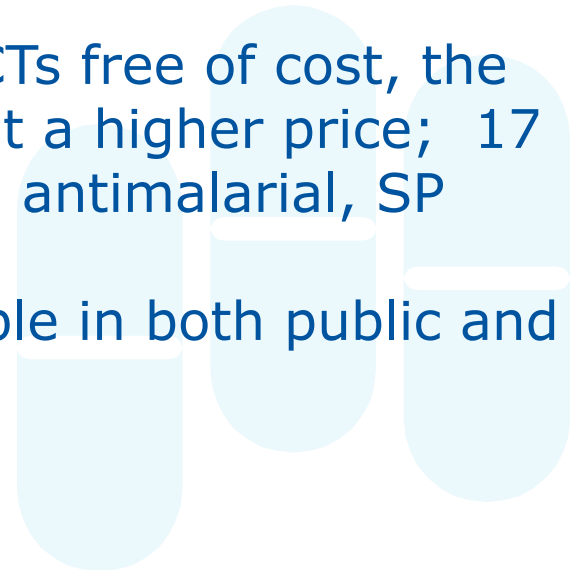
Caregivers Knowledge



Conclusions

From the supply side;

- ❑ Outlets in the public sector are more likely to stock the first-line treatment (AL) than those in the private sector
- ❑ non artemisinin monotherapies were the most distributed antimalarial in all outlets
- ❑ While the public sector distributed ACTs free of cost, the private sector distributed ACTs (AL) at a higher price; 17 times more than the most distributed antimalarial, SP
- ❑ Diagnostic testing was usually available in both public and private health facilities



Conclusions

From the demand side;

- ❑ First - line ACT (AL) is the most commonly acquired antimalarial treatment by caregivers of children under five;
- ❑ While most caregivers sought some form of treatment for a child under five with fever (92%), only half did so within 24 hours of fever onset;
- ❑ Among those who those who sought treatment, only 31% received a diagnosis
- ❑ Caregivers from poorer quintiles have greater access to ACTs



CONTRIBUTORS & ACKNOWLEDGEMENTS

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