

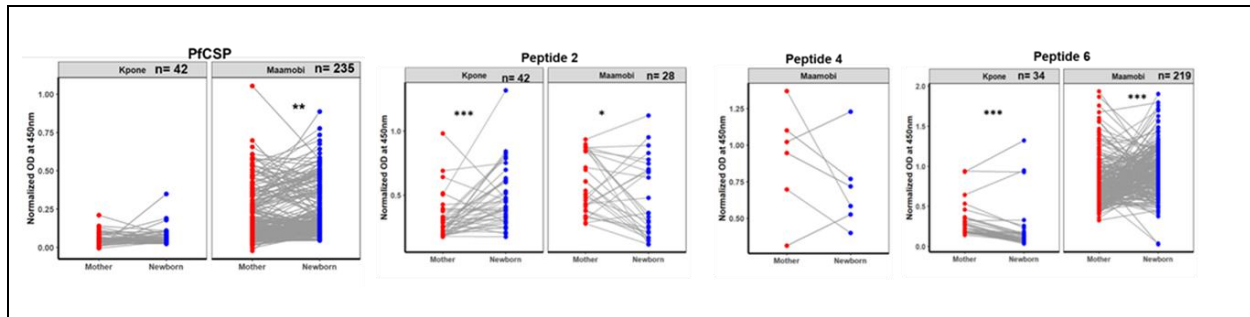
Supplementary materials

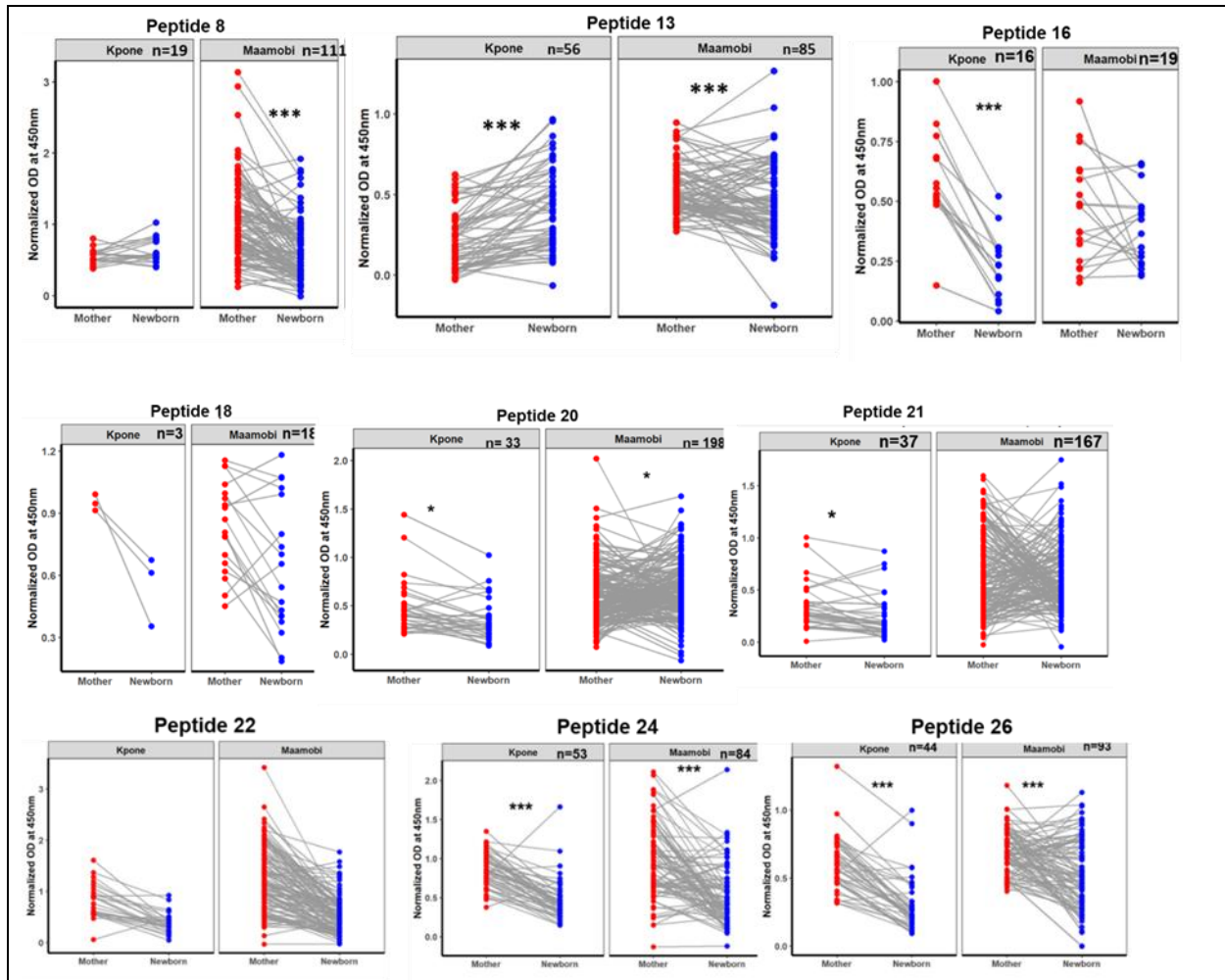
S1. Amino Acid sequence of antibody epitopes and ELISA plate antigens used in this study (Snap Gene)

Domain	ID	Sequence	Start-end position	Number of amino acid length
N-terminal	2	CSSFLFVEALFQEYQCYGSSS	11-30	20
N-terminal	4	CNTRVLNELNYDNAGTNLYNE	31-50	20
N-terminal	6	CLEMNYYGKQENWYSLKKNSR	51-70	20
N-terminal	8	CSLGENDDGNNEDNEKLRLKPK	71-90	20
Repeat region	13	CNANPNVDPNANPNANPNANP	121-140	20
C-terminal	16	CNPKNQNGQGHNMPNDPN	271-290	20
C-terminal	18	CRNVDENANANSAVKNNNNEE	291-310	20
C-terminal	20	CPSDKHIKEYLNKIQNSLSTE	311-330	20
C-terminal	21	CNKIQNSLSTEWSPCSVTCGN	321-340	20
C-terminal	22	CWSPCSVTCGNGIQVRIKPGS	331-350	20
C-terminal	24	CANKPKDEL DYANDIEKKICK	351-370	20
C-terminal	26	CMEKCSSVFNVVNSSIGLIMV	371-390	20
Full length	FL-PfCSP	3D7 containing 19 NANP repeats expressed in <i>E. coli</i>		397

Abbreviation: FL-PfCSP: Full Length-*Plasmodium falciparum* circumsporozoite protein

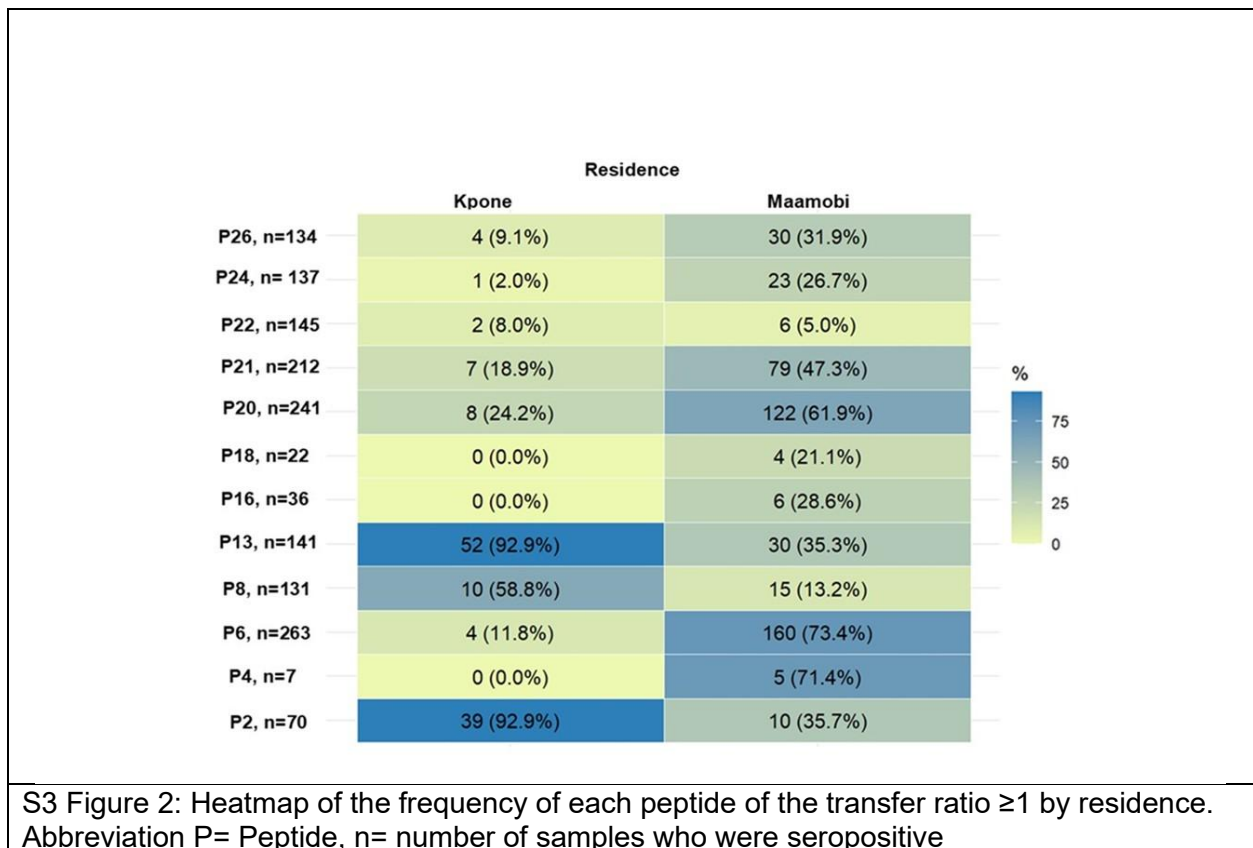
S2. The transfer of anti-PfCSP and its peptide by site



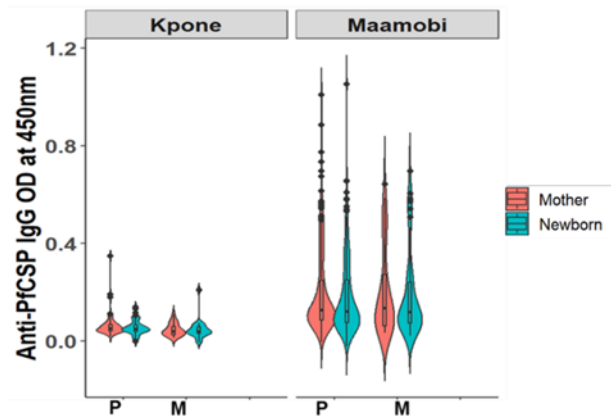


S2 Figure 1. Transfer of antibodies against FL-PfCSP and peptides by site. The line connects mother (red) and newborn (blue). n= number of seropositive, **= $p < 0.01$, *= $p < 0.05$, *** = $p < 0.0001$

S3. Transfer ratio percentage based on site



S4. Antibodies against PfCSP in mother and newborn based on gravida status



S3 Figure 3. Anti-PfCSP IgG of mother and newborn based on gravida status.

Normalized optical density (OD) levels of anti-PfCSP IgG were measured in paired maternal (red) and newborn (blue) serum samples, stratified by gravidity (primigravida Vs. multigravida) and study site (Kpone vs. Maamobi). Wilcoxon rank-sum test was used to compare the median OD.

Abbreviations: ns: Non-significant, M= Multigravida, OD: Optical density, P= Primigravida