**Supplementary Tables**

We have collated Supplementary Tables S1-S5 into a single Excel workbook with each table presented in a separate, clearly labeled tab. This workbook is available at https://github.com/gtollefson/Kenya\_WRAIR\_1998-2021\_antimalarial\_resistance\_surveillance\_study/tree/main/supplement.  
Supplementary Table S6 is hosted on Zenodo due to its large file size and is accessible under DOI: 10.5281/zenodo.15865821.

**Supplementary Table 1**. Sample collection summary table summarizing sample counts by collection year and site.

**Supplementary Tables 2**. A set of three tables including **A)** Genomic ranges targeted by probes for MIP capture and sequencing; **B)** Details of all MIP probe sequences; and **C)** Genomic positions of key drug resistance associated mutations targeted by the panel.

**Supplementary Table 3**. Table of prevalence of 77 individual validated antimalarial resistance markers by sample year and location.

**Supplementary Table 4**. Table of sample level incidence of all K13 propeller domain missense mutations with year and location of detection.

**Supplementary Table 5**. Table of prevalence of artemisinin resistance mutations in UBP1, ATP6, and AP2MU by sample year and location.

**Supplementary Table 6**. Individual level within-sample allele frequency data for all DR2 panel missense SNPs detected in one or more samples.