**Code book for variable of ICEMR NIPD Drug resistance markers**

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| Column | Variable | Variable description |
| A | Sample name | Sample ID |
| B | Age | years |
| C | Sex | Male:1; Female:2 |
| From D to I | Follow up | usPCR positive: 1; usPCR negative: 0; Lost: 999; NA: not available; RDT positive: RDT+ |
| J | Follow up | usPCR positive: +; usPCR negative: -; Lost: .; NA: .; RDT positive and withdraw: @ |
| K | I13 | *Pvdhfr* mutation at amino acid 13; I: Ile |
| L | F57L/I | *Pvdhfr* mutation at amino acid 57; F: Phe; L: Leu; I: Ile |
| M | S58R | *Pvdhfr* mutation at amino acid 58; S: Ser; R: Arg |
| N | T61M | *Pvdhfr* mutation at amino acid 61; T: Thr; M: Met |
| O | H99S | *Pvdhfr* mutation at amino acid 99; H: His; S: Ser; Blank: absent of 6 amino acid (98-103) |
| P | S117T/N | *Pvdhfr* mutation at amino acid 117; S: Ser; T: Thr; N: Asn |
| Q | I173 | *Pvdhfr* mutation at amino acid 173; I: Ile |
| R | Merged | Combined *Pvdhfr* amino acid type at position 13, 57, 58, 61, 99, 117,173 |
| S | T958M | *Pvmdr1* mutation at amino acid 958; T: Thr; M: Met |
| T | Y976F | *Pvmdr1* mutation at amino acid 976; Y: Tyr; F: Phe |
| U | K997 | *Pvmdr1* mutation at amino acid 997; K: Lys |
| V | F1076L | *Pvmdr1* mutation at amino acid 1076; F: Phe; L: Leu |
| W | Merged | Combined *Pvmdr1* amino acid type at position 958, 976, 997, 1076 |
| X | S382A | *Pvdhps* mutation at amino acid 382; S: Ser; A: Ala |
| Y | A383G | *Pvdhps* mutation at amino acid 383; A: Ala; G: Gly |
| Z | K512M | *Pvdhps* mutation at amino acid 512; K: Lys; M: Met |
| AA | A553G | *Pvdhps* mutation at amino acid 553; A: Ala; G: Gly |
| AB | R580 | *Pvdhps* mutation at amino acid 580; R: Arg |
| AC | V585 | *Pvdhps* mutation at amino acid 585; V: Val |
| AD | Merged | Combined *Pvdhps* amino acid type at position 382, 383, 512, 553, 580, 585 |
| AE | Pvcrt-o (aag insert) | aag insert in Pvcrt-o: 1; lack of aag insert in Pvcrt-o:0 |