**Table S2:** Summary of variables in the model

|  |  |
| --- | --- |
| Nn | Number of IRBC’s expressing antigen n |
| Nn,n+i | Number of IRBC’s expressing antigen n whose merozoites will create IRBC’s in the next generation expressing antigen n+i |
| N1n | Number of IRBC’s in the new asexual cycle expressing antigen n |
| Xi | Concentration per microliter of parasites expressing antigen i |
| Yinnate | Level of pro-inflammatory cytokines |
| Yfever | Level of fever due to pro-inflammatory cytokines |
| Yantibody,i | Level of antibodies specific to antigen i |
| Ycapacity,i | Variable representing changing capacity to produce antibodies specific to antigen i |