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| **Table S1. Quality grading tool** |  |  |  |  |
| Quality Item | Grade and grade criteria | | | |
| High-Very High | Low-Moderate | Moderate-High | Unable to judge |
| Was the population, intervention, comparator group and outcome described clearly? | Described in full detail | Not described at all | Neither described in full detail nor not described at all | Unable to judge based on the information presented |
| Were the study methods presented in a reproducible way? | Described in full detail | Not described at all | Neither described in full detail nor not described at all | Unable to judge based on the information presented |
| Was the determination of prior DENV exposure valid? | Documented molecularly or dengue NS1 confirmed prior infection, history of experimental inoculation (NHP) | Patient history/clinical impression or low confidence serologya | High confidence serologyb | Unable to judge based on the information presented |
| Was acute ZIKV exposure measured in a valid way? | Molecular confirmation (acute), known experimental inoculation (NHP) | Patient history/clinical impression or low-confidence serologyc | High confidence serologyd | Unable to judge based on the information presented |
| Were clinical outcomes and/or their laboratory proxies measured in a valid way? | Measured with high validity | Invalid method of measurement | Neither measured with high validity nor measured with an invalid method | Unable to judge based on the information presented |
| aExample = DENV ELISA IgG | | | | |
| bExample = DENV plaque reduction neutralization assay or microneutralization assay | | | | |
| cExample = ZIKV ELISA IgM pos (acute specimen) + DENV IgM neg (acute specimen) | | | | |