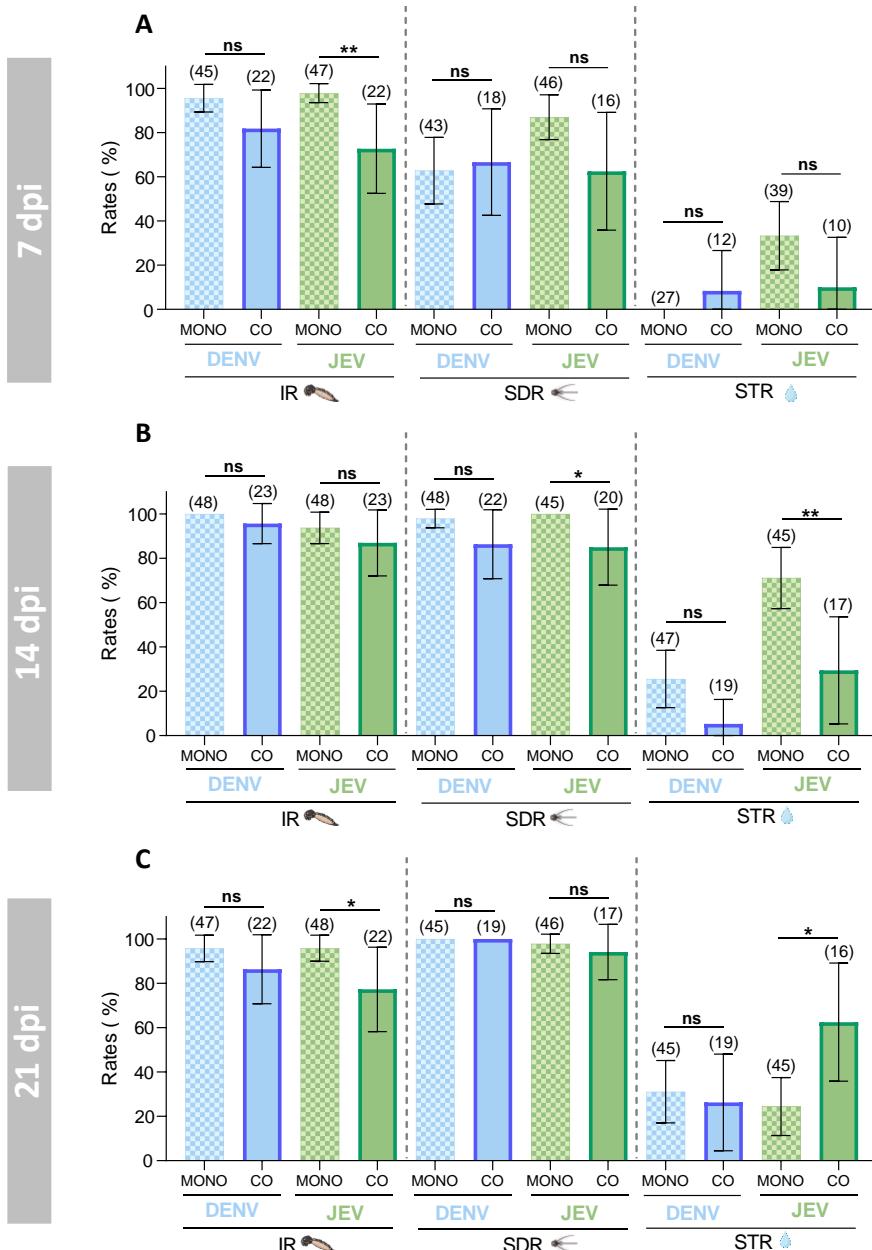
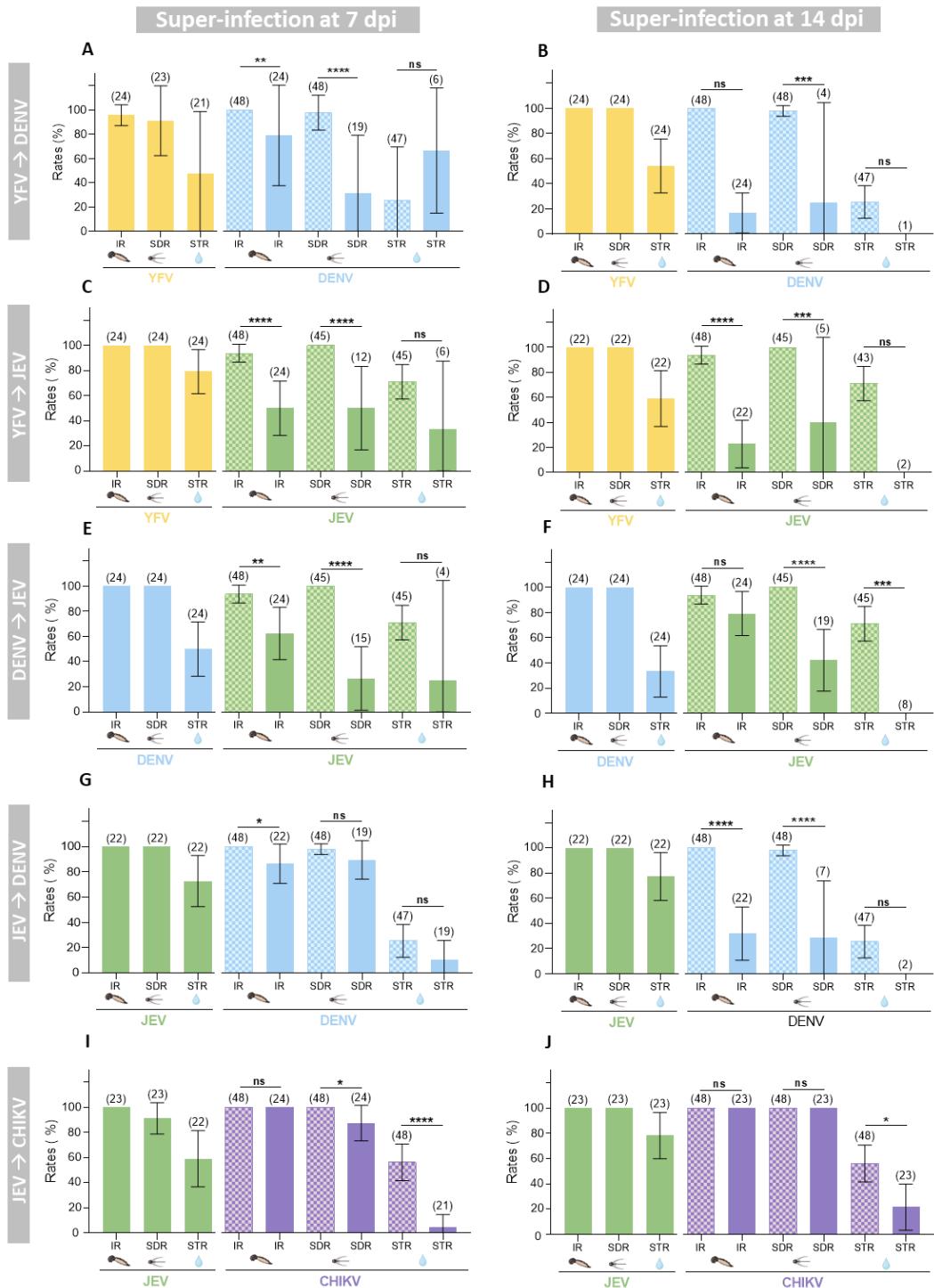


## DENV & JEV



**Figure ED1. Co-infection of *Ae. aegypti* with DENV and JEV** at a final titer of  $10^7$  FFU/mL and mosquitoes were examined at 7 (A), 14 (B), and 21 (C) dpi; pairwise comparisons of infection (IR), stepwise dissemination (SDR), and stepwise transmission rates (STR) of the viruses in mono- and co-infection. Stars indicate statistical significance of comparisons by Fisher's exact test (pairwise comparison; ns: not significant,  $*P \leq 0.05$ ,  $**P \leq 0.001 \leq P \leq 0.01$ ).



**Figure ED2. Super-infection of *Ae. aegypti* mosquitoes from Thailand** 7 or 14 days after primo-infection and mosquitoes were examined at 14 post super-infection to estimate IR, SDR, and STR. For the second virus, pairwise comparisons of infection (IR), stepwise dissemination (SDR), and stepwise transmission rates (STR) for mono- and super-infections were made.

**(A-B) Super-infection YFV followed by DENV** at day 7 post primo-infection (A) or at day 14 post primo-infection (B).

**(C-D) Super-infection YFV followed by JEV** at day 7 post primo-infection (C) or at day 14 post primo-infection (D).

**(E-F) Super-infection DENV followed by JEV** at day 7 post primo-infection (E) or at day 14 post primo-infection (F).

**(G-H) Super-infection JEV followed by DENV** at day 7 post primo-infection (G) or at day 14 post primo-infection (H).

**(I-J) Super-infection JEV followed by CHIKV** at day 7 post primo-infection (I) or at day 14 post primo-infection (J). Stars indicate statistical significance of comparisons by Fisher's exact test (pairwise comparison; ns: not significant, \*P≤0.05, \*\*P≤0.01, \*\*\*P≤0.001, \*\*\*\*P≤0.0001).