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ON THE SPATIAL DISPERSION OF WOBACHIA IN WILD MOSQUITO POPULATIONS

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Systematic introduction of Wolbachia in wild populations is now considered an important strategy of controlling dengue and other diseases transmitted by *Aedes aegypti*. However, one important component in this strategy is the assumption of an efficient dispersal of Wolbachia in the target population, and recent data suggests that this might not be the case in general. In order to assess this risk, we consider a simplified population dynamics model for *Aedes aegypti* and how that for typical parameters regime this dispersion can be considerably slowed and, in some extreme cases, even counteracted.