

Quantitative RA of equine encephalosis virus (EEV) introduction into the Netherlands

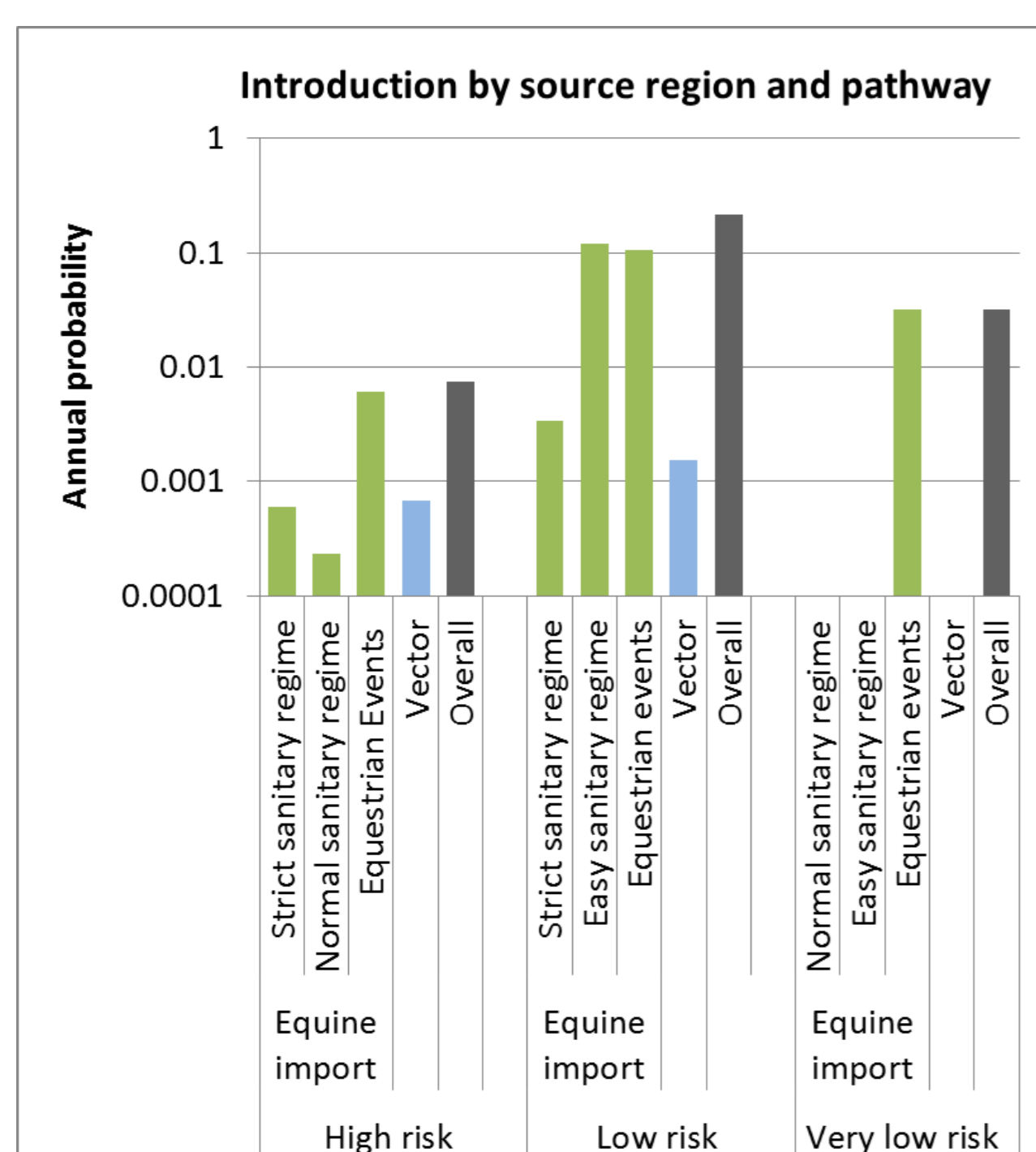
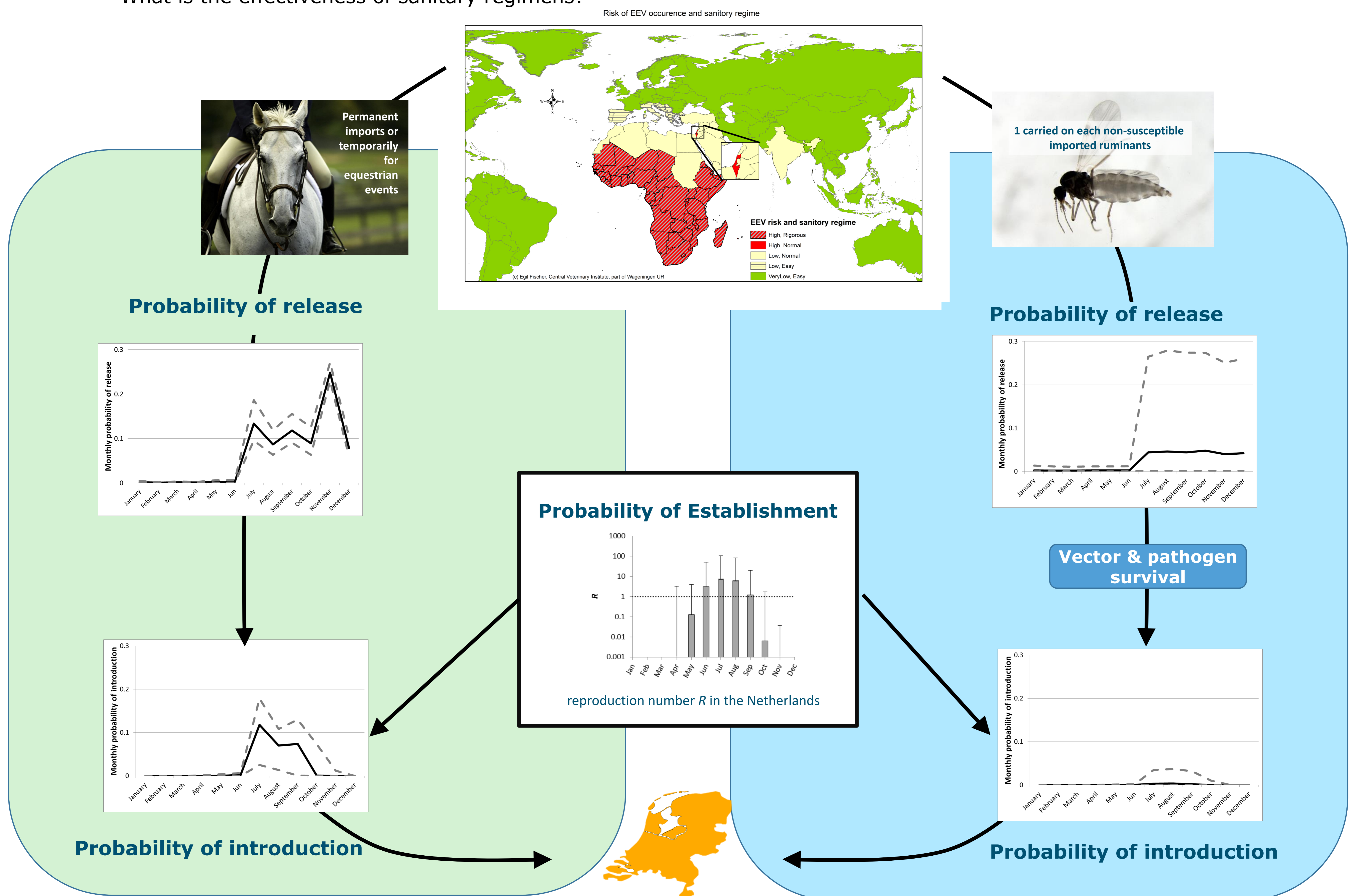
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What is the probability of introduction of EEV in the Netherlands?

Equine encephalosis is a midge-borne disease of equines caused by EEV (Orbivirus, Reoviridae) exotic to the Netherlands. EEV is related to African horse sickness Virus.

- What is the probability of EEV introduction into the Netherlands by either vectors or equines?
- What is the contribution of different source areas?
- What is the effectiveness of sanitary regimens?



Conclusions

- The annual probability of EEV introduction is, given an outbreak every 6.7 years in low risk regions, 0.24 via equines and 0.02 via vectors, meaning an introduction each 4 years or 50 years. For introduction through equines 39 times more often than AHSV (5.1 10⁻⁴ in De Vos et al, 2012, PVM).
- Equine movements from low risk regions contribute most to the introduction risk of EEV into NL.
- Equestrian events can pose an important risk of introduction of EEV.
- Quarantine is important to mitigate the probability of introduction

