Serodynamics Analysis for Multiple Subjects

Kwan Ho Lee

2025-03-19

Introduction

This document demonstrates the full workflow using the **serodynamics** package. In this analysis, we run JAGS models for three different subjects:

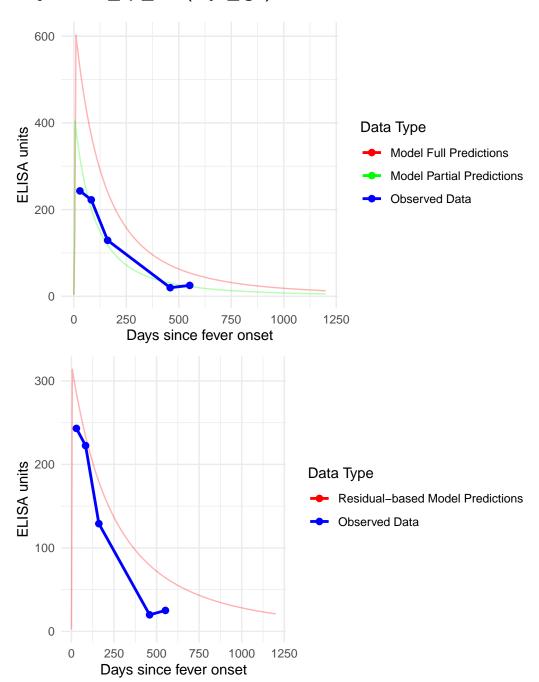
- sees_npl_128 (HlyE_IgA)
- sees_npl_131 (HlyE_IgA)
- $sees_npl_133$ (HlyE_IgG)

For each subject, we process the JAGS output to extract median parameter estimates and generate predicted antibody response curve plots.

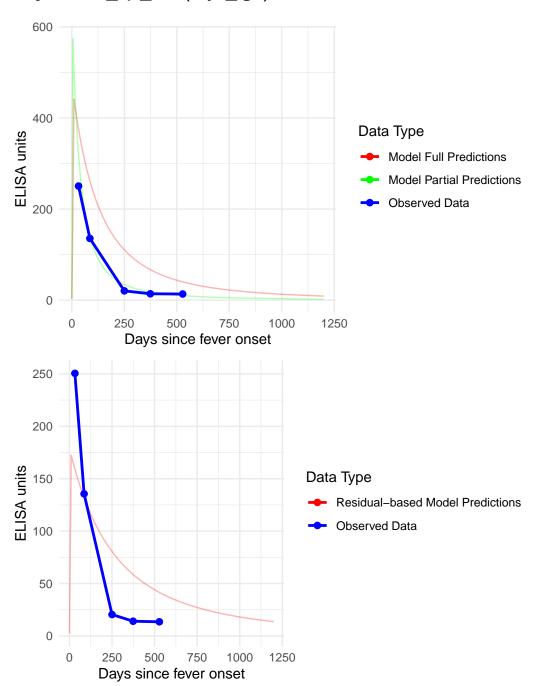
Load Required Libraries

Run Models for Each Subject

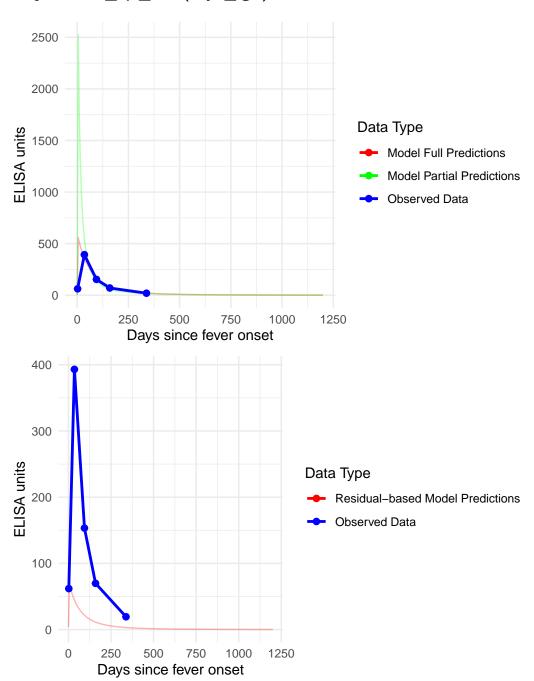
Subject: sees_npl_128 (HlyE_lgA)



Subject: sees_npl_131 (HlyE_lgA)



Subject: sees_npl_133 (HlyE_lgG)



Conclusion

This document generated JAGS models and corresponding predicted antibody response curves for three subjects:

- $sees_npl_128 (HlyE_IgA)$
- sees_npl_131 (HlyE_IgA)
- sees_npl_133 (HlyE_IgG)