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Within-host dynamics and random duration of pathogen infection:
implications for between-host transmission

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Highlights

- We let a host's stochastic mortality rate depend on within-host pathogen growth.
- Infected *Drosophila* mortality hazard depends on cumulative within-host density.
- The probability density of the time from infection to death is not exponential.
- Infection-duration and encounter models combine to link within and between-host scales.

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