

Table S1: Parameter estimates for viral lifecycle kinetics using the mathematical model describing intracellular viral replication and viral export (see *Section 2* for a detailed explanation of the individual parameters). Shown are the best fits with numbers in brackets indicating the 95%-confidence intervals obtained by profile likelihood analysis.

Parameter	Description	Unit	Estimate [95%-CI]
R_0	Initial intracellular HCV RNA	RNA cell ⁻¹	80.1 [42.2, 192]
V_0	Initial residual extracellular HCV RNA	$\times 10^3$ RNA cell ⁻¹	5.91 [3.66, 10.5]
λ	Intracellular RNA production rate	h ⁻¹	0.24 [0.19, 0.28]
ρ	Viral export rate	$\times 10^{-3}$ h ⁻¹	2.10 [1.24, 3.47]
R_C	Carrying capacity of intracellular RNA	$\times 10^4$ RNA cell ⁻¹	7.73 [6.30, 9.76]
c	Viral loss rate	$\times 10^{-2}$ h ⁻¹	7.58 [4.88, 11.0]