

Table S5. Estimation of temporal reproduction number distribution using a Birth-Death Skyline (contemporary) model for homochronous HCV sequences for A) Gt1a and B) Gt3a. For these analyses, a GTR gamma site model (4 categories) was selected with a strict molecular clock with sequence date constraints where possible.

A) Gt1a - Birth and Death Skyline Contemporary (homochronous sequences)										
Summary Statistic	Rep.Num. cont1	Rep.Num. cont2	Rep.Num. cont3	Rep.Num. cont4	Rep.Num. cont5	Rep.Num. cont6	Rep.Num. cont7	Rep.Num. cont8	Rep.Num. cont9	Rep.Num. Cont10
mean	1.1699	1.1043	1.0711	1.0577	0.982	0.98	0.9266	0.9377	2.7836	25.0669
stderr of mean	0.0172	0.017	0.0159	0.0163	0.0148	0.0139	0.0141	0.0235	0.1566	0.8245
stdev	1.1087	1.0654	1.0026	1.0494	0.9284	0.9181	0.8606	0.9191	2.9815	20.8542
variance	1.2292	1.135	1.0052	1.1013	0.862	0.8429	0.7407	0.8447	8.8891	434.8959
median	0.8297	0.7992	0.7747	0.7532	0.7074	0.7119	0.6712	0.6674	1.7792	19.002
value range	[0.0283 - 21.1446]	[0.0268 - 22.7161]	[0.0227 - 13.3908]	[0.0179 - 15.5968]	[0.023 - 12.9868]	[0.0195 - 9.6884]	[0.0186 - 10.5462]	[0.0304 - 11.8969]	[0.012 - 37.6422]	[2.85 - 308.726]
geometric mean	0.8057	0.7741	0.7426	0.7372	0.689	0.6871	0.655	0.6534	1.594	19.5349
95% HPD interval	[0.0412 - 3.3206]	[0.0268 - 2.9997]	[0.0227 - 2.9494]	[0.0532 - 2.9422]	[0.0255 - 2.7164]	[0.0316 - 2.7282]	[0.0286 - 2.5637]	[0.0348 - 2.615]	[0.0347 - 8.6137]	[2.85 - 64.1684]
auto-correlation time (ACT)	2155.9679	2285.2482	2273.5997	2171.0787	2299.0922	2058.4751	2419.0874	5896.7084	24831.4393	14070.2402
effective sample size (ESS)	4174.9	3938.7	3958.9	4145.9	3915	4372.7	3720.8	1526.4	362.5	639.7
B) Gt3a - Birth and Death Skyline Contemporary (homochronous sequences)										
Summary Statistic	Rep.Num. cont1	Rep.Num. cont2	Rep.Num. cont3	Rep.Num. cont4	Rep.Num. cont5	Rep.Num. cont6	Rep.Num. cont7	Rep.Num. cont8	Rep.Num. cont9	Rep.Num. Cont10
mean	1.179	1.1372	1.0932	1.0833	1.2176	1.0682	1.1117	1.8284	7.3014	18.7462
stderr of mean	0.0116	0.0113	0.0129	0.0438	0.21	0.0861	0.1301	0.4421	2.4613	3.0003
stdev	1.0982	1.0752	1.0428	1.1513	2.5369	1.453	1.8853	4.5969	13.2584	20.1342
variance	1.2061	1.156	1.0874	1.3256	6.4358	2.1113	3.5545	21.1315	175.7852	405.3873
median	0.8393	0.8094	0.7807	0.7526	0.74	0.7187	0.7087	0.7336	1.2101	12.6376
value range	[0.0203 - 14.0936]	[0.016 - 17.6834]	[0.0275 - 13.244]	[0.0171 - 22.5855]	[0.0291 - 142.0836]	[0.0141 - 34.379]	[0.0124 - 52.6456]	[0.0351 - 91.78]	[0.0231 - 202.5518]	[0.0575 - 241.8379]
geometric mean	0.811	0.7902	0.7617	0.7347	0.7327	0.7085	0.6989	0.7945	1.8925	10.3829

95% HPD interval	[0.0496 - 3.3426]	[0.0334 - 3.1941]	[0.0275 - 3.0305]	[0.0363 - 3.0696]	[0.0311 - 3.1558]	[0.0348 - 2.9211]	[0.0348 - 3.0609]	[0.0351 - 6.6435]	[0.0231 - 33.1138]	[0.0575 - 56.6407]
auto-correlation time (ACT)	10000	10000	13768.8667	1.30E+05	6.17E+05	3.16E+05	4.29E+05	8.32E+05	3.10E+06	2.00E+06
effective sample size (ESS)	9001	9001	6537.2	692	145.9	285	209.8	108.1	29	45