MAP and ESS for all models

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Table 1: MAP for Models 2 and Model 5 (prevalence)

	Model 2	Model 5
gpsp0	0.48	0.51
gpsp1	0.06	0.05
gpsp2	0.14	0.13
gpsploc	1994.43	1993.38
msmsp0	0.07	0.08
msmsp1	0.45	0.36
msmsp2	0.08	0.24
msmsploc	1982.94	1980.17
maleX	1.94	1.98
import	0.03	0.03
srcNe	1715.85	1791.01
pmsm2msm	0.75	0.80
pgpf2gpm	0.99	0.99
initmsm	2.34	1.03
initgp	33.54	30.72
Lposterior	-2575.98	-2579.06

Table 2: Effective sample size (ESS) for Models 2 and Model 5 (prevalence)

	Model 2	Model 5
gpsp0	2769	3908
gpsp1	2267	2984
gpsp2	2406	3677
gpsploc	2563	3205
msmsp0	2007	3103
msmsp1	2597	3212
msmsp2	2559	3480
msmsploc	2455	3243
maleX	1944	3254
import	3107	3457
srcNe	3077	3710
pmsm2msm	2409	3160
pgpf2gpm	2730	3035
initmsm	1758	2426
initgp	2856	3250

Table 3: MAP for Models 3 and Model 6 (prevalence)

	Model 3	Model 6
gpsp0	0.53	0.50
gpsp1	0.05	0.05
gpsp2	0.10	0.06
gpsploc	1995.13	1993.97
msmsp0	0.07	0.09
msmsp1	0.36	0.36
msmsp2	0.10	0.14
msmsploc	1983.32	1981.85
maleX	1.94	1.94
import	0.03	0.03
srcNe	1459.85	1455.61
pmsm2msm	0.87	0.90
pgpf2gpm	1.00	0.99
initmsm	2.62	1.48
initgp	25.99	27.88
Lposterior	-1748.77	-1749.79

Table 4: ESS for Models 3 and Model 6 (prevalence)

	Model 3	Model 6
gpsp0	2904	2350
gpsp1	2667	1889
gpsp2	2656	2403
gpsploc	3020	2325
msmsp0	3320	2014
msmsp1	2866	2374
msmsp2	2952	2343
msmsploc	3073	1984
maleX	2754	1948
import	3568	2438
srcNe	3839	2653
pmsm2msm	3019	2349
pgpf2gpm	2919	2076
initmsm	2565	2177
initgp	3161	2457

Table 5: MAP for Models 4 and Model 7 (prevalence)

	Model 4	Model 7
gpsp0	0.53	0.52
gpsp1	0.05	0.05
gpsp2	0.09	0.06
gpsploc	1994.94	1993.86
msmsp0	0.41	0.08
msmsp1	0.09	0.32
msmsp2	0.13	0.11
msmsploc	2006.68	1983.73
maleX	1.81	1.91
import	0.03	0.03
srcNe	1706.53	1733.37
pmsm2msm	0.87	0.89
pgpf2gpm	0.99	0.99
initmsm	2.39	1.72
initgp	31.86	31.37
Lposterior	-2569.31	-2571.11

Table 6: ESS for Models 4 and Model 7 (prevalence)

	Model 4	Model 7
gpsp0	2216	2615
gpsp1	1472	2453
gpsp2	1415	2452
gpsploc	1442	2280
msmsp0	1482	2157
msmsp1	1500	2310
msmsp2	1648	2460
msmsploc	1425	2218
maleX	1428	2143
import	2064	2588
srcNe	2027	2757
pmsm2msm	1616	2343
pgpf2gpm	1459	2275
initmsm	1322	1973
initgp	2256	2452

Table 7: MAP for subtype C Models 1 and Model 3 (prevalence)

	Model 1	Model 3
gpsp0	0.28	0.27
gpsp1	0.07	0.07
gpsp2	0.15	0.17
gpsploc	2001.85	2002.81
msmsp0	0.11	0.37
msmsp1	0.37	0.10
msmsp2	0.10	0.08
msmsploc	1982.60	2011.91
maleX	1.91	1.97
import	0.02	0.02
srcNe	241.80	201.95
pmsm2msm	0.85	0.83
pgpf2gpm	0.91	0.93
initmsm	1.62	1.89
initgp	4.16	2.92
Lposterior	-657.10	-656.88

Table 8: ESS for subtype C Models 1 and Model 3 (prevalence)

	Model 1	Model 3
gpsp0	2879	1962
gpsp1	3195	2042
gpsp2	3322	2027
gpsploc	3072	2208
msmsp0	3187	2031
msmsp1	3045	1940
msmsp2	3549	2504
msmsploc	3152	1803
maleX	3109	2043
import	3356	2429
srcNe	3740	2571
pmsm2msm	3256	2337
pgpf2gpm	2953	2420
initmsm	2235	1957
initgp	2494	1572

Table 9: MAP for subtype C Models 2 and Model 4 (prevalence)

	Model 2	Model 4
gpsp0	0.33	0.29
gpsp1	0.06	0.08
gpsp2	0.13	0.13
gpsploc	1998.41	2000.82
msmsp0	0.10	0.09
msmsp1	0.33	0.36
msmsp2	0.07	0.06
msmsploc	1982.10	1981.79
maleX	1.97	1.96
import	0.02	0.02
srcNe	207.81	221.36
pmsm2msm	0.93	0.89
pgpf2gpm	0.90	0.90
initmsm	1.38	1.41
initgp	3.73	3.69
Lposterior	-655.83	-655.02

Table 10: ESS for subtype C Models 2 and Model 4 (prevalence)

	Model 2	Model 4
gpsp0	1811	4586
gpsp1	1511	5157
gpsp2	1525	5651
gpsploc	1715	4890
msmsp0	1543	5223
msmsp1	1572	4996
msmsp2	1976	6163
msmsploc	1478	4624
maleX	1796	4877
import	1988	6229
srcNe	2171	6525
pmsm2msm	1769	5812
pgpf2gpm	1807	5319
initmsm	1410	4049
initgp	1155	3945

Table 11: MAP for subtype 02_AG Models 1 and Model 3 (prevalence)

	Model 1	Model 3
gpsp0	0.70	0.66
gpsp1	0.05	0.06
gpsp2	0.07	0.08
gpsploc	2000.65	2002.32
msmsp0	0.06	0.08
msmsp1	0.33	0.37
msmsp2	0.06	0.05
msmsploc	1998.11	1999.49
maleX	2.00	1.96
import	0.10	0.07
srcNe	647.94	851.47
pmsm2msm	0.91	0.92
pgpf2gpm	1.00	1.00
initmsm	1.21	1.14
initgp	27.91	25.29
Lposterior	-1887.31	-1895.62

Table 12: ESS for subtype 02_AG Models 1 and Model 3 (prevalence)

	Model 1	Model 3
gpsp0	2628	2663
gpsp1	2409	3160
gpsp2	2058	3203
gpsploc	2164	2785
msmsp0	2205	3166
msmsp1	2238	3008
msmsp2	2291	2840
msmsploc	2567	2930
maleX	2008	3085
import	2450	2847
srcNe	2270	3314
pmsm2msm	2353	3440
pgpf2gpm	1892	2840
initmsm	1777	2334
initgp	2404	3071

Table 13: MAP for subtype 02_AG Models 2 and Model 4 (prevalence)

	Model 2	Model 4
gpsp0	0.71	0.68
gpsp1	0.06	0.05
gpsp2	0.06	0.07
gpsploc	2000.81	2001.87
msmsp0	0.09	0.08
msmsp1	0.22	0.16
msmsp2	0.11	0.06
msmsploc	1998.72	1999.13
maleX	1.96	1.99
import	0.08	0.07
srcNe	767.92	752.21
pmsm2msm	0.80	0.91
pgpf2gpm	1.00	1.00
initmsm	2.25	1.96
initgp	26.91	27.45
Lposterior	-1883.07	-1891.20

Table 14: ESS for subtype 02_AG Models 2 and Model 4 (prevalence)

	Model 2	Model 4
gpsp0	1458	4090
gpsp1	1278	3947
gpsp2	1233	4227
gpsploc	1336	4171
msmsp0	1464	4382
msmsp1	1763	4246
msmsp2	1086	3763
msmsploc	1084	4208
maleX	1319	3708
import	1453	4501
srcNe	2078	4861
pmsm2msm	1648	4636
pgpf2gpm	1352	4151
initmsm	1270	3280
initgp	1716	4176