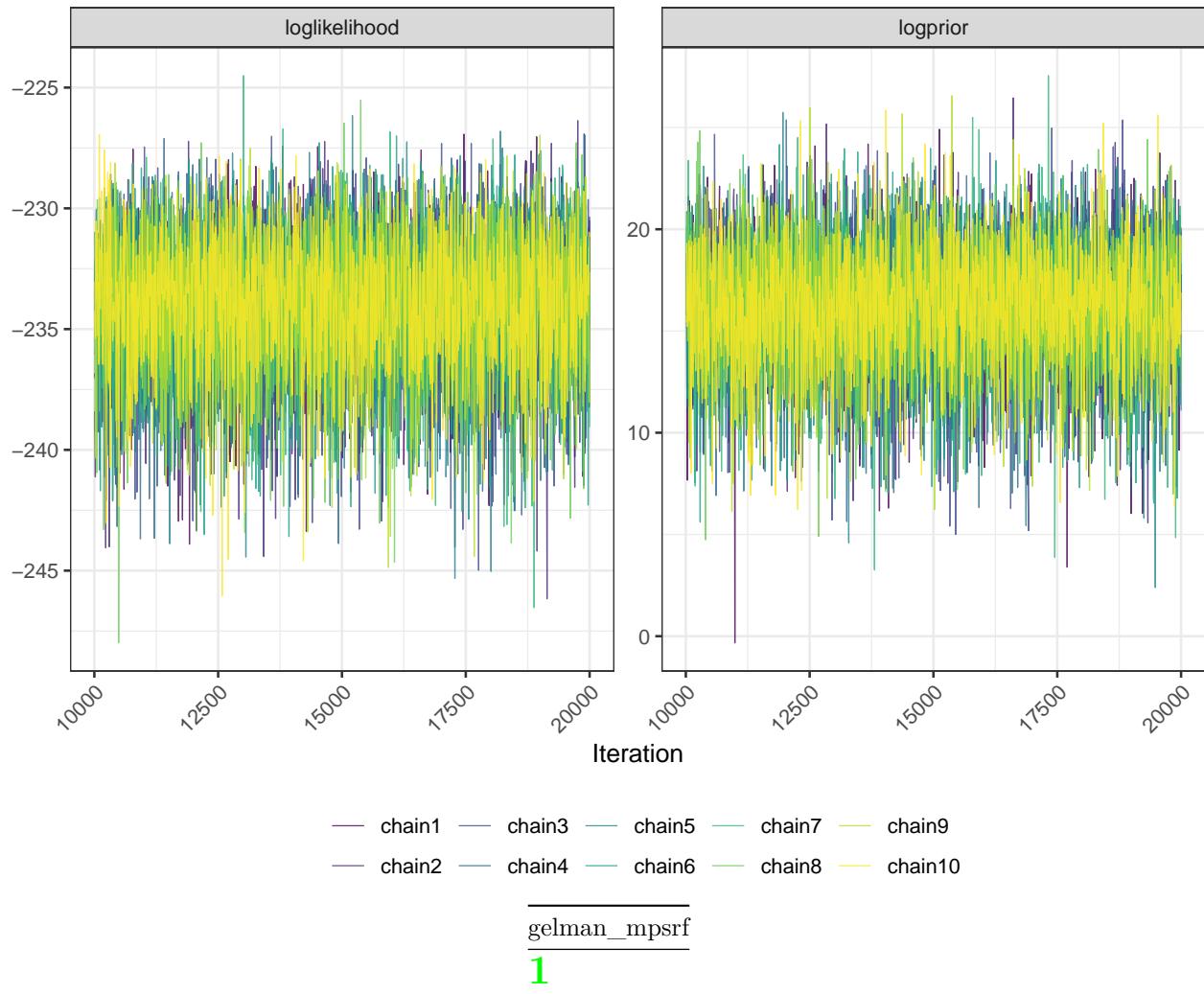


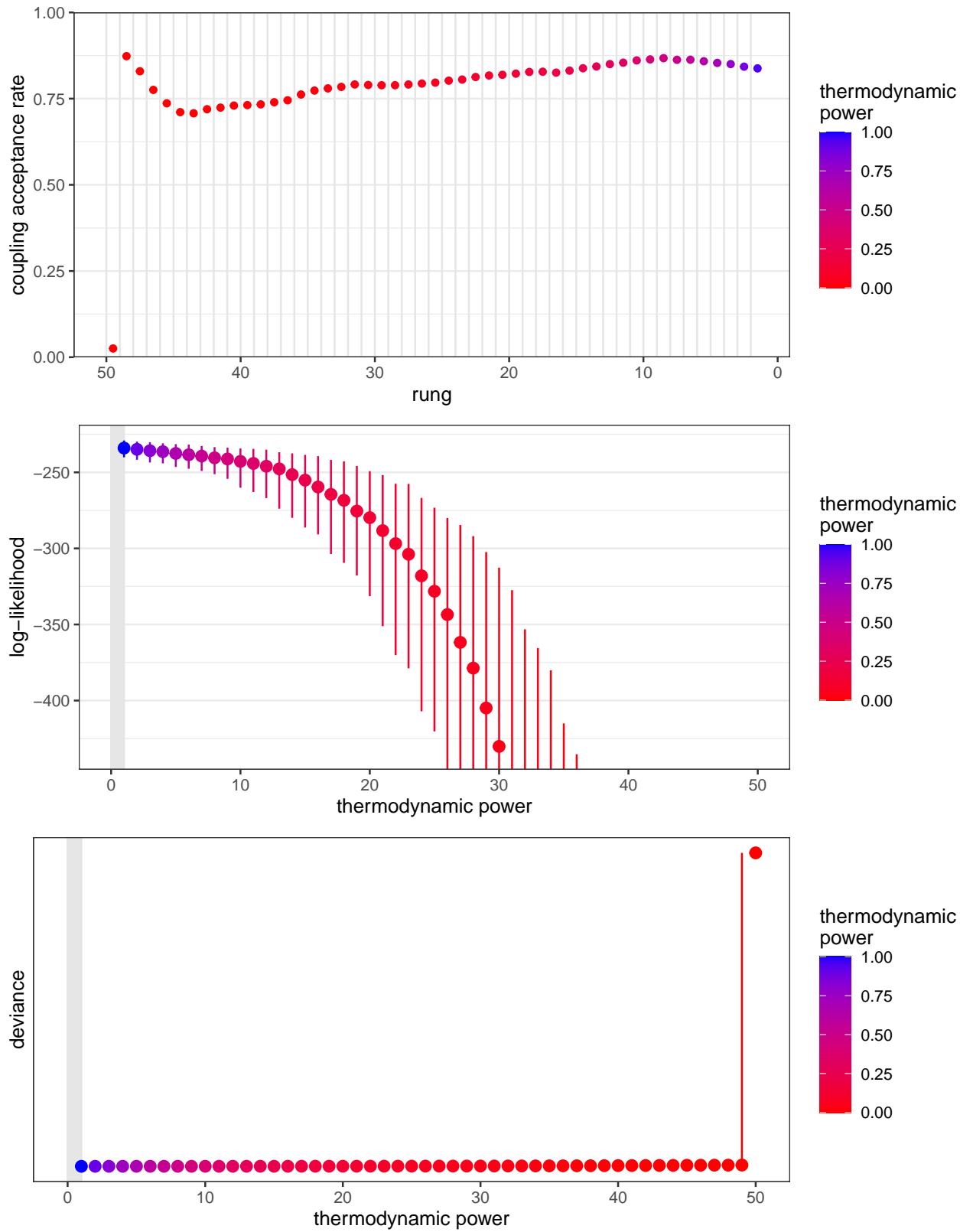
# CHE1 with Care Homes Excluded

## Fit Diagnostics

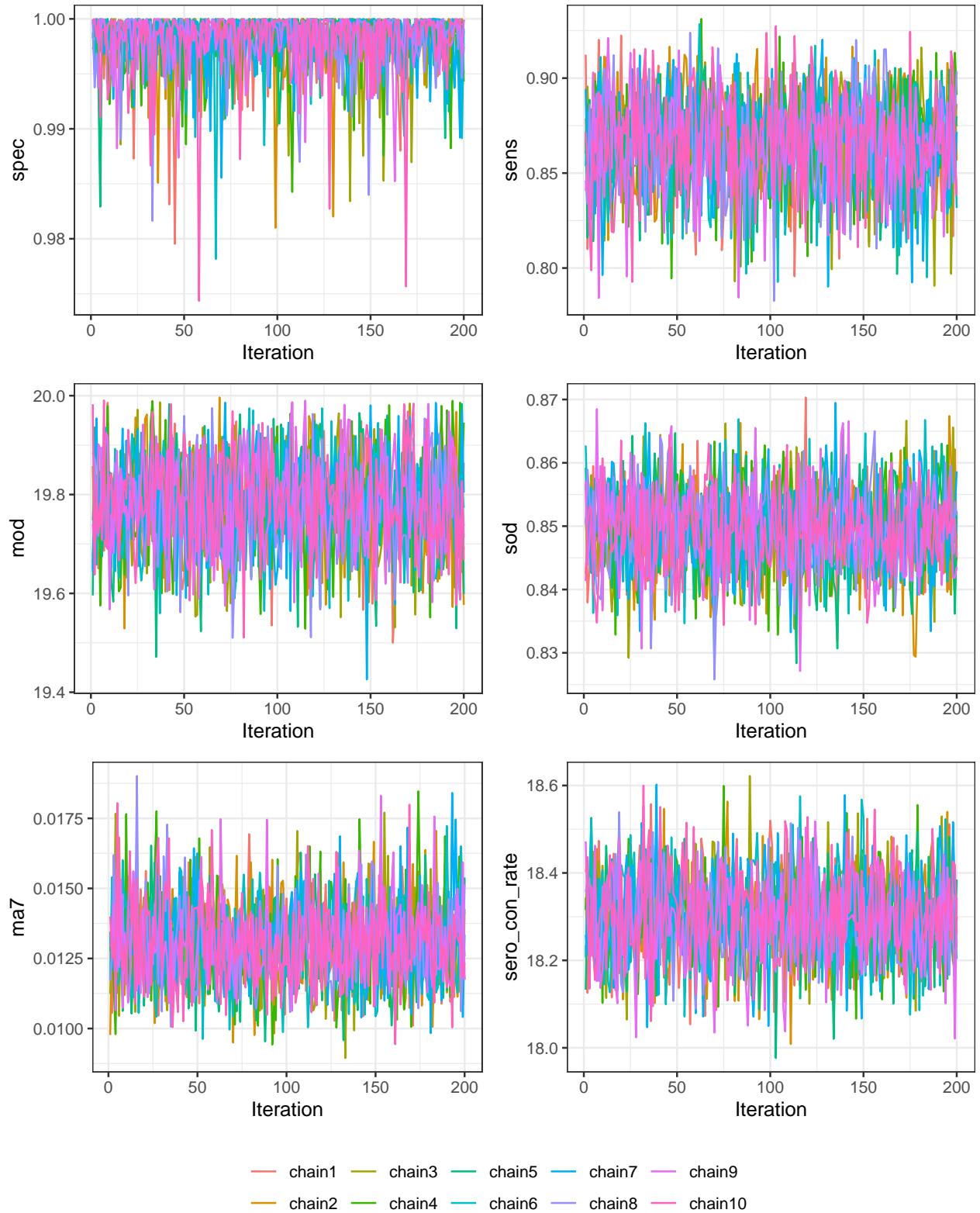
### Log Likelihood & Prior Plot



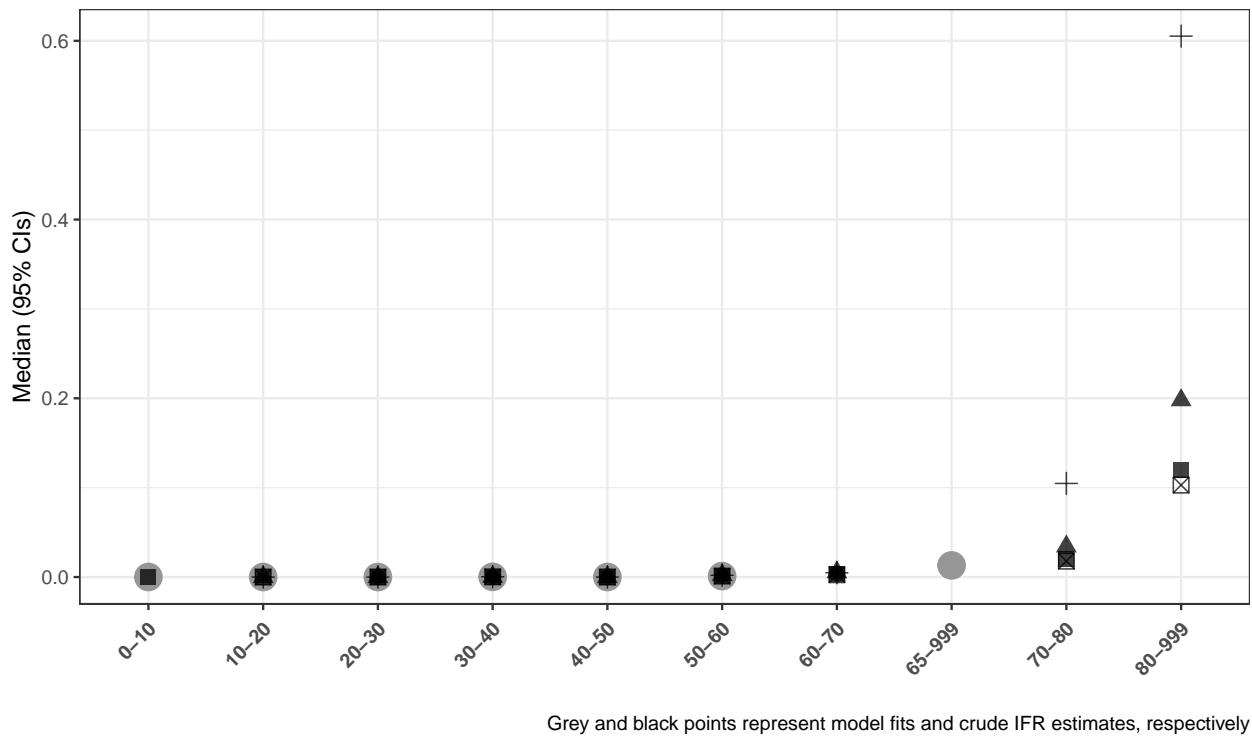
### Metropolis Coupling Acceptance Plot



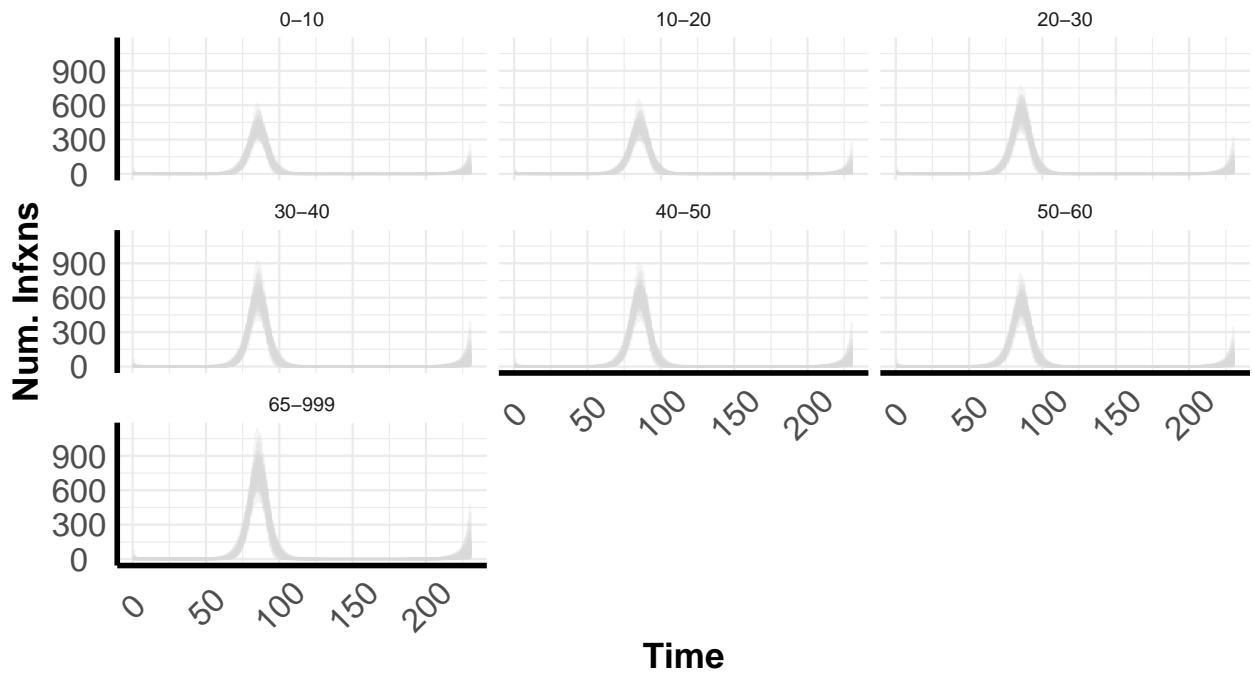
## Serological Diagnostics



## IFRs & Incidence Curve



## Posterior Draws of the Infection Curve



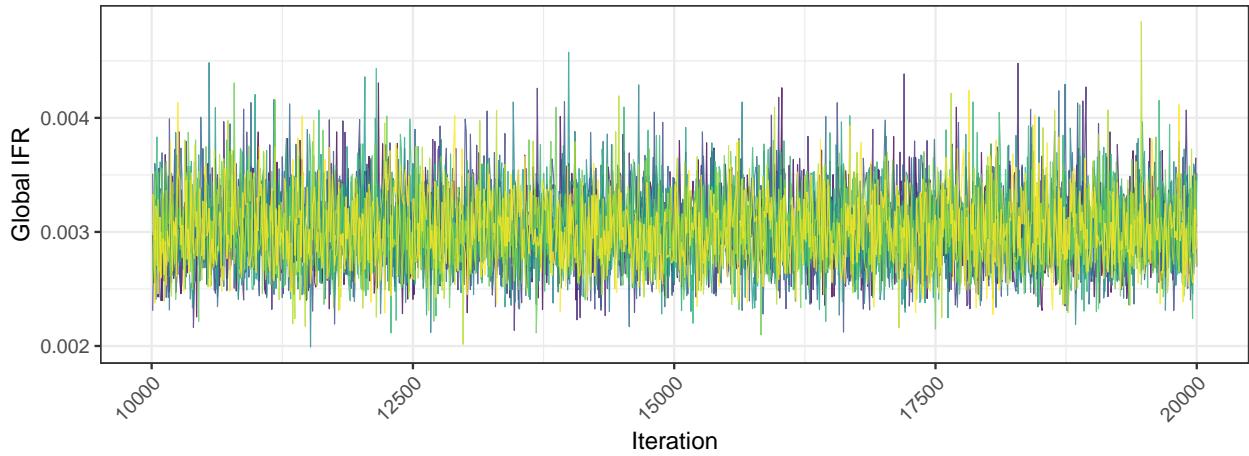
## Strata IFR

strata	param	min	LCI	median	mean	UCI	max	ESS	GewekeZ	GewekeP
0-10	ma1	0.0000	0.0000	0.0000	0.0000	0.0001	0.0001	9017.596	0.0841	0.3975
10-20	ma2	0.0000	0.0000	0.0000	0.0000	0.0001	0.0001	9499.475	0.8646	0.2745
20-30	ma3	0.0000	0.0000	0.0000	0.0000	0.0001	0.0001	9653.578	0.8599	0.2756
30-40	ma4	0.0000	0.0000	0.0002	0.0002	0.0006	0.0011	9714.021	-0.4275	0.3641
40-50	ma5	0.0000	0.0000	0.0000	0.0000	0.0001	0.0001	9641.520	0.5622	0.3406
50-60	ma6	0.0001	0.0004	0.0011	0.0011	0.0019	0.0028	10000.000	-0.0387	0.3986
65-999	ma7	0.0087	0.0105	0.0130	0.0131	0.0162	0.0215	8270.681	-0.0781	0.3977

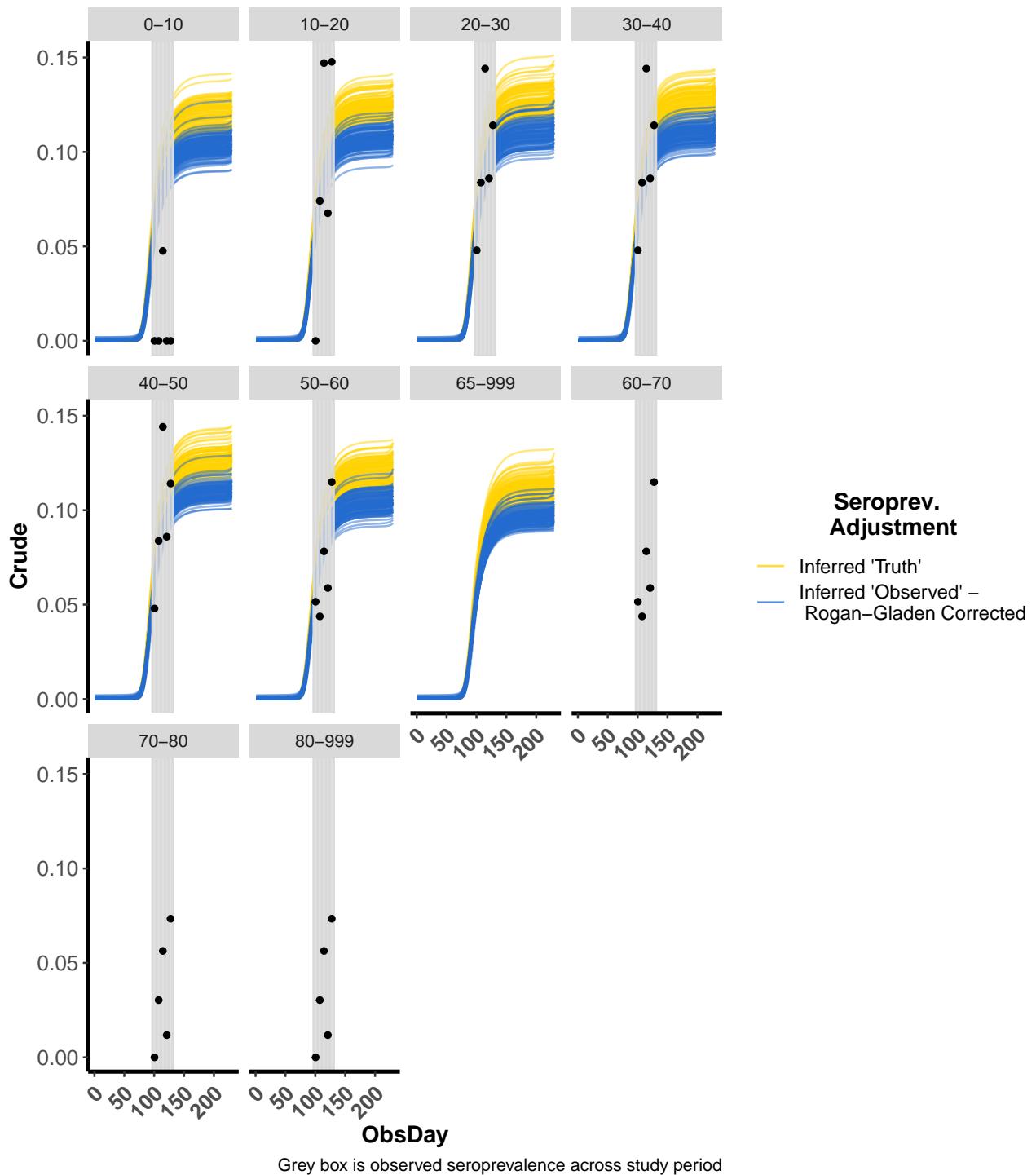
## Overall IFR

min	LCI	median	mean	UCI	max	ESS	GewekeZ	GewekeP
0.002	0.0025	0.003	0.003	0.0037	0.0048	10654.38	0.7891	0.2922

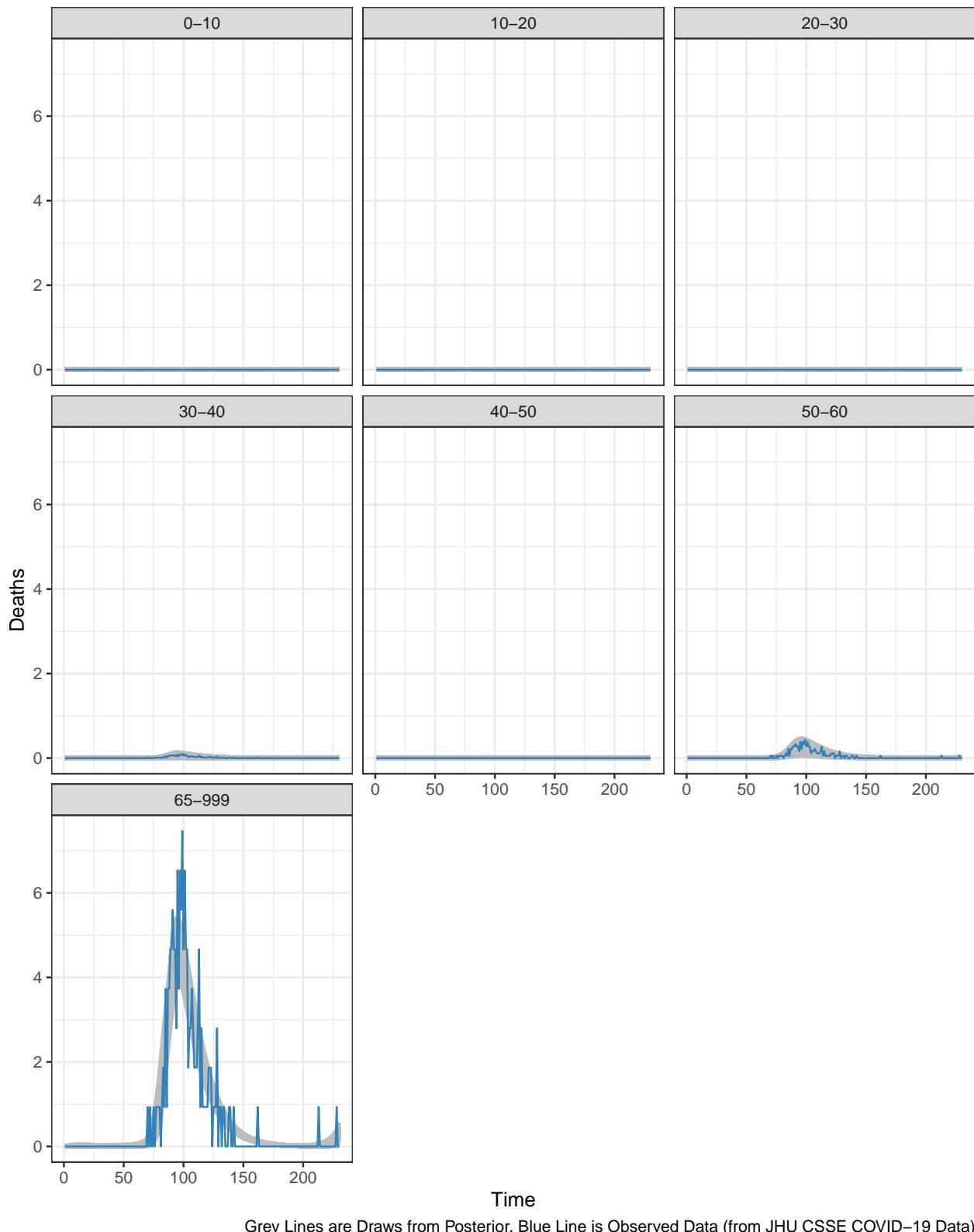
chain	min	LCI	median	mean	UCI	max	ESS	GewekeZ	GewekeP
chain1	0.0023	0.0025	0.003	0.003	0.0037	0.0043	1000.0000	-0.5424	0.3444
chain2	0.0021	0.0024	0.003	0.003	0.0038	0.0045	633.4095	-2.0839	0.0455
chain3	0.0021	0.0025	0.003	0.003	0.0037	0.0041	885.3411	-0.1635	0.3936
chain4	0.0022	0.0024	0.003	0.003	0.0037	0.0043	740.7384	1.3970	0.1504
chain5	0.0020	0.0024	0.003	0.003	0.0036	0.0045	867.0064	0.5125	0.3498
chain6	0.0022	0.0024	0.003	0.003	0.0037	0.0046	678.2966	0.6282	0.3275
chain7	0.0021	0.0025	0.003	0.003	0.0038	0.0044	1000.0000	-0.4436	0.3616
chain8	0.0021	0.0025	0.003	0.003	0.0037	0.0043	904.1218	2.4053	0.0221
chain9	0.0020	0.0024	0.003	0.003	0.0037	0.0048	891.2402	0.5470	0.3435
chain10	0.0023	0.0025	0.003	0.003	0.0037	0.0042	868.3736	0.2506	0.3866



### Seroprevalence Observed vs. Inferred True Prev



## Death Posterior Predictive Check



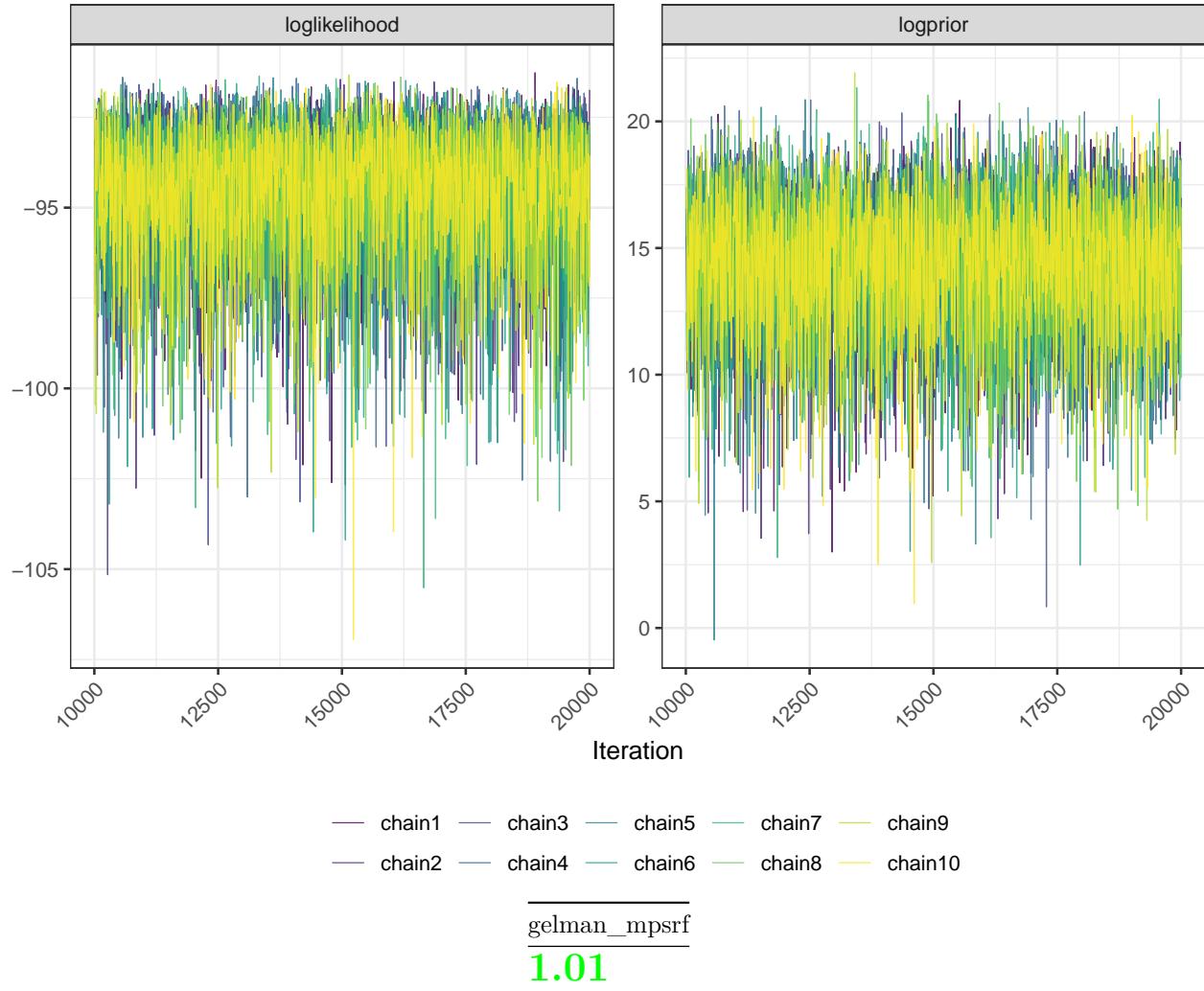
## Additional Parameters

param	min	LCI	median	mean	UCI	max	ESS	GewekeZ	GewekeP
x1	1.2621	3.6812	59.1065	56.6286	77.8891	87.2110	1797.458	-1.3364	0.1633
x2	60.1765	72.4724	87.5276	86.8260	98.6209	107.5531	2274.315	1.9232	0.0628
x3	87.2531	95.6698	108.2921	108.9652	124.9249	228.2898	2208.664	-2.0537	0.0484
x4	216.0033	216.3394	223.1349	223.1093	229.6383	229.9997	5616.112	-1.1122	0.2149
y1	0.0000	0.0813	1.8321	2.0079	4.9429	6.9864	8630.277	0.8651	0.2744
y2	0.0010	0.0917	2.4283	2.8023	7.1071	8.4918	2473.341	0.1331	0.3954
y3	3.4479	5.6803	7.9345	7.7064	8.4728	8.9942	1016.963	-6.0788	0.0000
y4	0.0008	0.1412	2.7397	2.8799	6.4604	8.1375	3221.443	0.9196	0.2614
y5	0.0055	1.2857	4.4125	4.3457	6.7816	8.0528	8208.912	-2.0719	0.0466
Ne1	0.7784	0.8785	0.9749	0.9750	1.0717	1.1613	9574.292	-0.1956	0.3914
Ne2	0.8345	0.9139	1.0092	1.0092	1.1039	1.2136	10000.000	-2.2653	0.0307
Ne3	0.8752	0.9478	1.0363	1.0365	1.1268	1.1957	10000.000	0.0740	0.3979
Ne4	0.8735	0.9490	1.0370	1.0372	1.1266	1.2114	10000.000	0.0296	0.3988
Ne5	0.8563	0.9452	1.0374	1.0366	1.1235	1.1976	9666.727	0.2079	0.3904
Ne6	0.8027	0.8891	0.9820	0.9817	1.0739	1.1605	9603.584	1.9673	0.0576
Ne7	0.7314	0.8276	0.9172	0.9172	1.0063	1.0827	8950.782	1.3500	0.1604

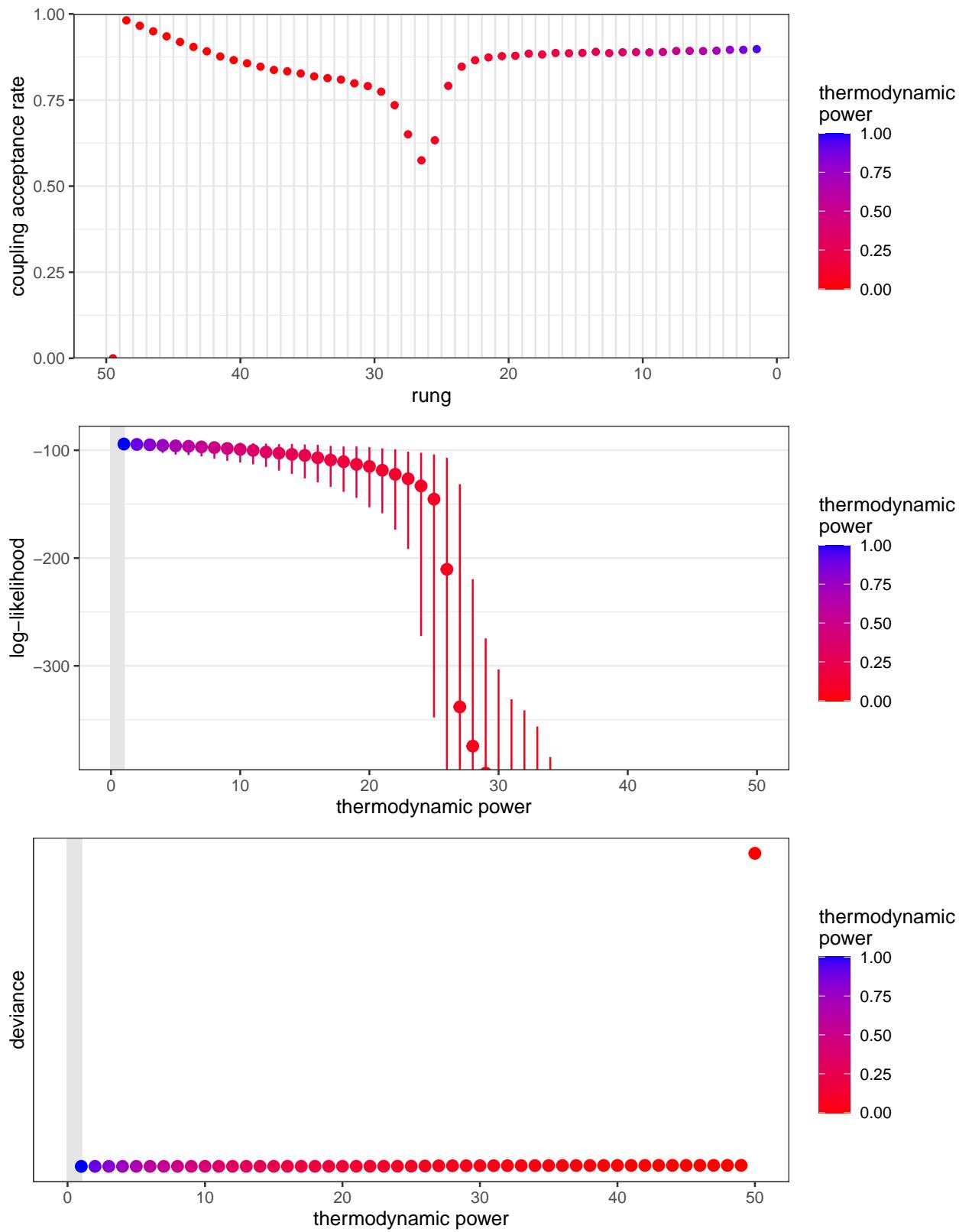
## CHE2 with Care Homes Excluded

### Fit Diagnostics

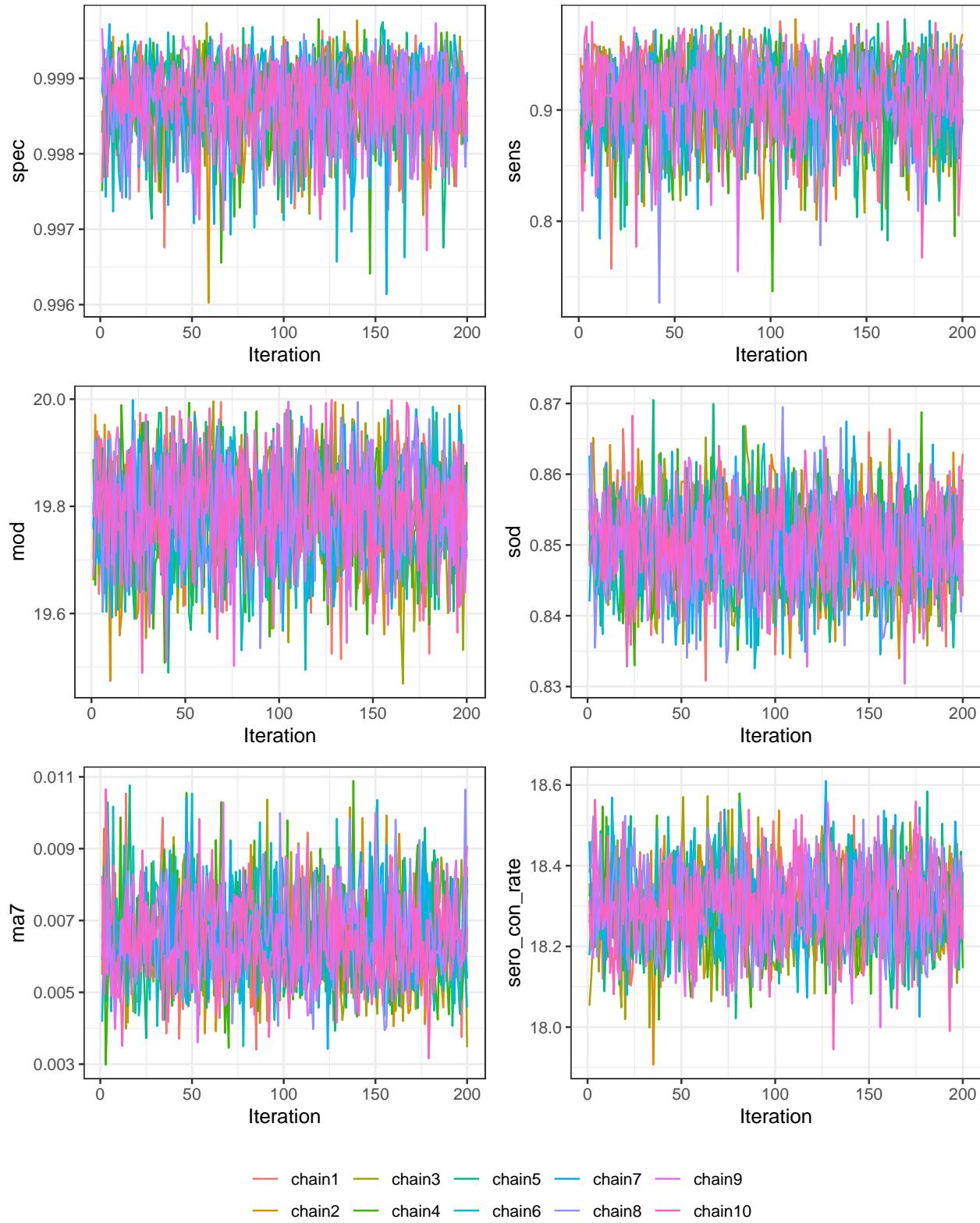
#### Log Likelihood & Prior Plot



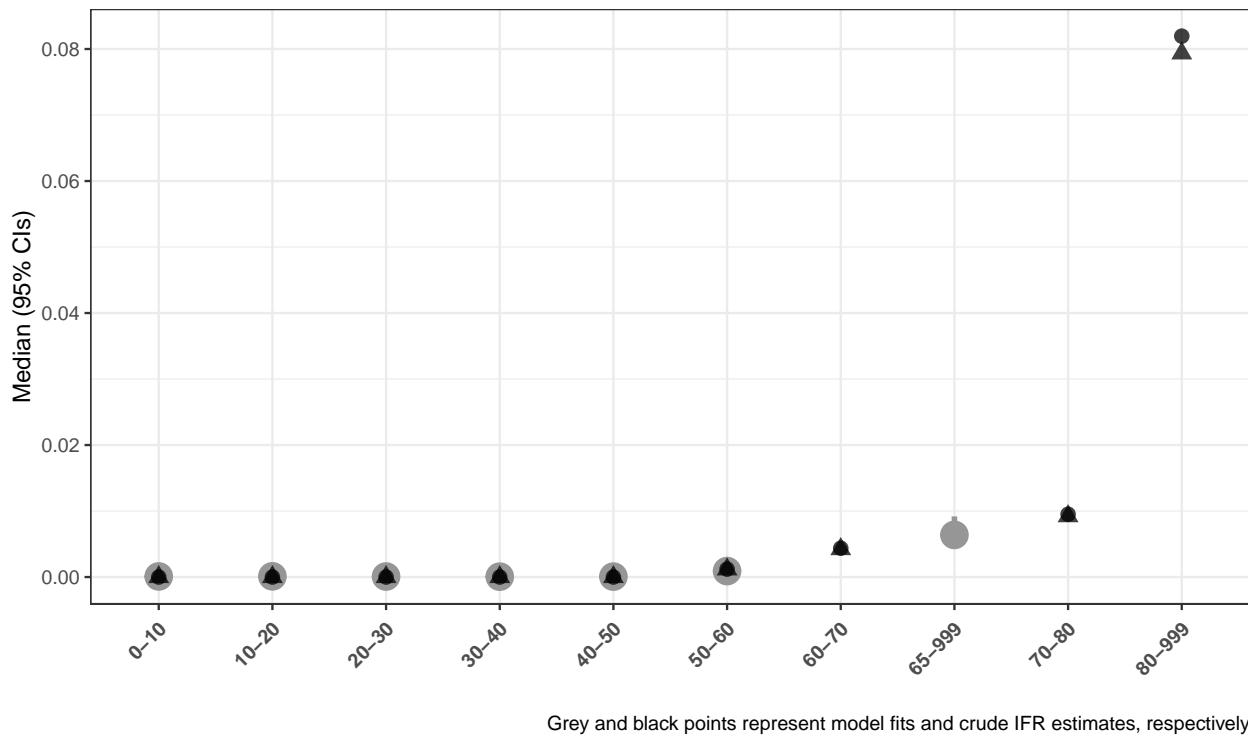
### Metropolis Coupling Acceptance Plot



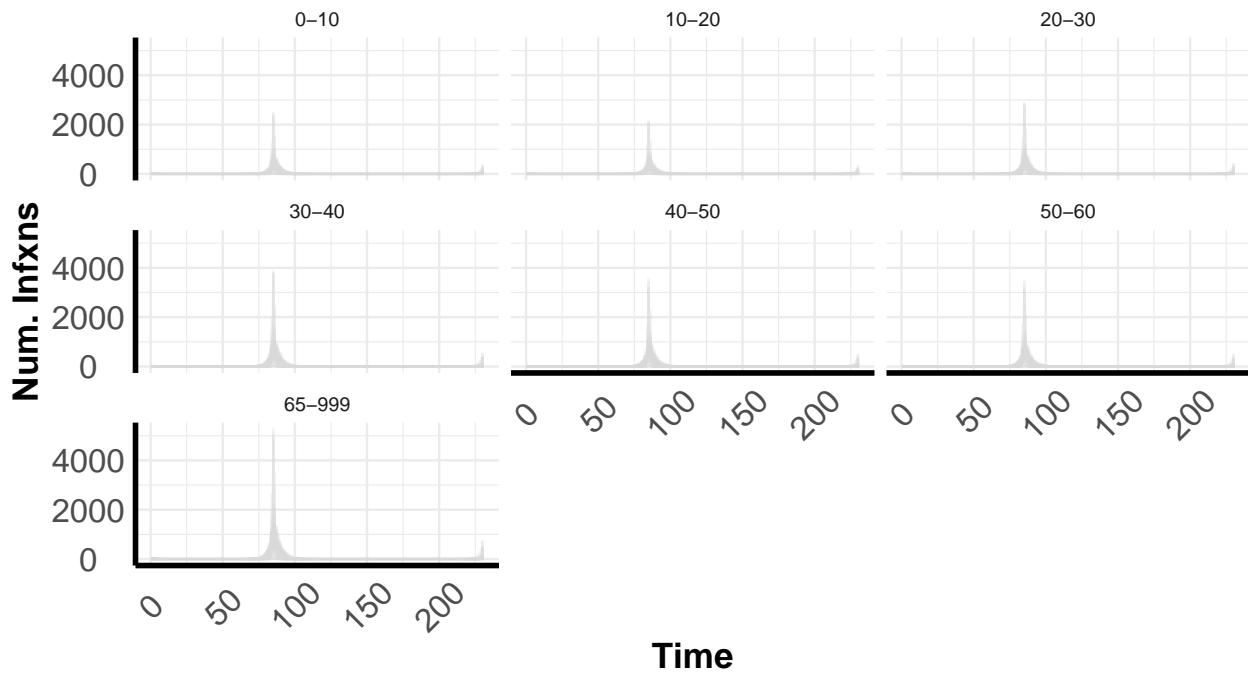
## Serological Diagnostics



## IFRs & Incidence Curve



## Posterior Draws of the Infection Curve



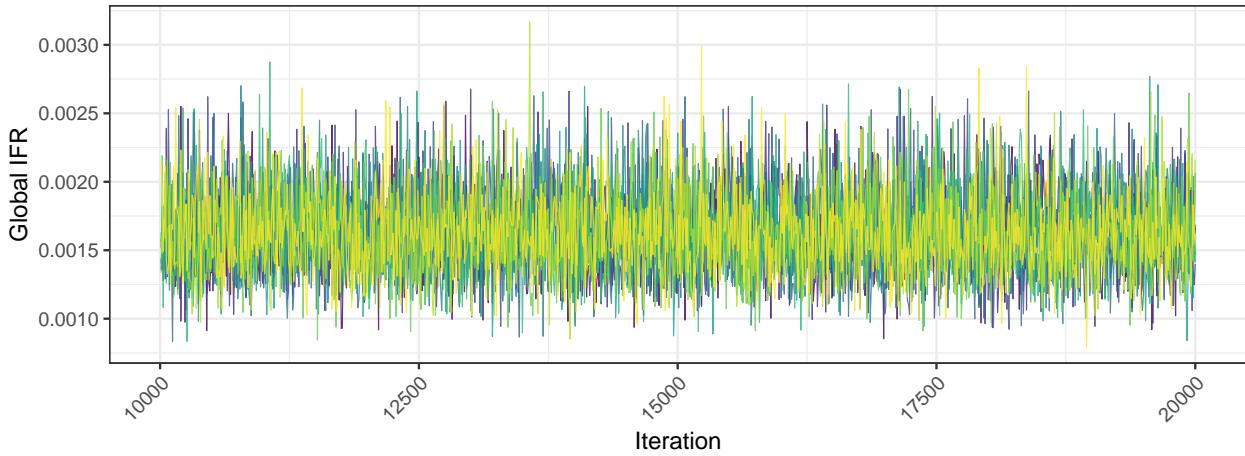
## Strata IFR

strata	param	min	LCI	median	mean	UCI	max	ESS	GewekeZ	GewekeP
0-10	ma1	0.000	0.0000	0.0001	0.0001	0.0002	0.0002	9391.548	-0.1311	0.3955
10-20	ma2	0.000	0.0000	0.0001	0.0001	0.0002	0.0003	9193.167	-0.2423	0.3874
20-30	ma3	0.000	0.0000	0.0001	0.0001	0.0002	0.0002	9427.470	0.6003	0.3332
30-40	ma4	0.000	0.0000	0.0001	0.0001	0.0001	0.0002	8838.349	-1.3072	0.1698
40-50	ma5	0.000	0.0000	0.0001	0.0001	0.0001	0.0002	9534.972	-0.0769	0.3978
50-60	ma6	0.000	0.0002	0.0009	0.0010	0.0021	0.0044	10000.000	0.3684	0.3728
65-999	ma7	0.003	0.0043	0.0064	0.0065	0.0092	0.0125	7781.697	-0.0045	0.3989

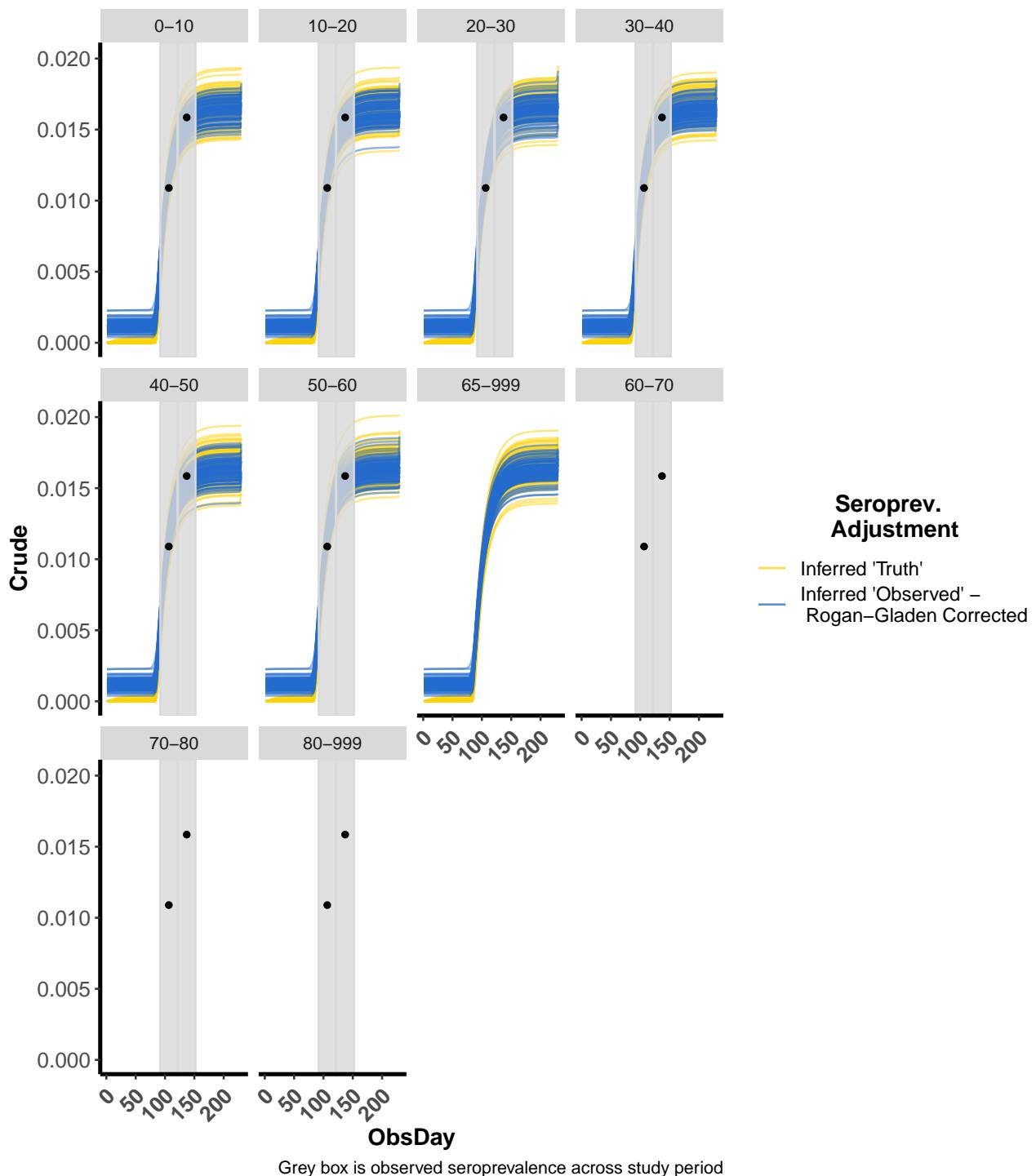
## Overall IFR

min	LCI	median	mean	UCI	max	ESS	GewekeZ	GewekeP
8e-04	0.0011	0.0016	0.0016	0.0023	0.0032	10000	0.1325	0.3955

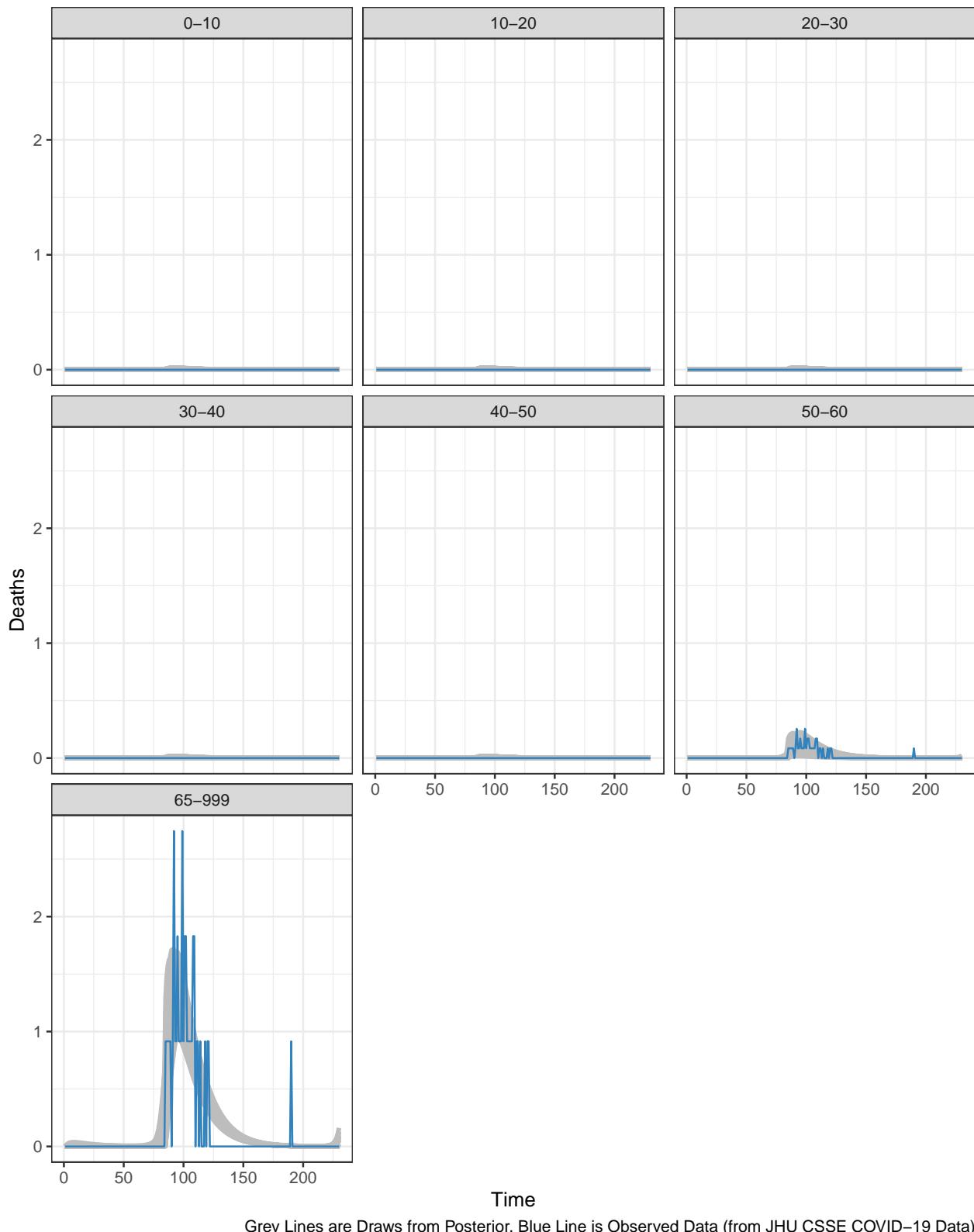
chain	min	LCI	median	mean	UCI	max	ESS	GewekeZ	GewekeP
chain1	9e-04	0.0011	0.0016	0.0016	0.0022	0.0026	904.1938	-2.1779	0.0372
chain2	9e-04	0.0011	0.0016	0.0016	0.0023	0.0027	1000.0000	0.9556	0.2527
chain3	9e-04	0.0012	0.0016	0.0016	0.0023	0.0027	898.4338	0.8315	0.2823
chain4	8e-04	0.0011	0.0016	0.0016	0.0022	0.0027	740.6424	-0.2821	0.3834
chain5	9e-04	0.0011	0.0016	0.0016	0.0023	0.0027	840.1684	0.3841	0.3706
chain6	8e-04	0.0011	0.0016	0.0016	0.0023	0.0028	1000.0000	1.1701	0.2012
chain7	8e-04	0.0011	0.0016	0.0016	0.0023	0.0029	866.7659	-0.3391	0.3767
chain8	8e-04	0.0011	0.0016	0.0016	0.0023	0.0027	1000.0000	-0.5116	0.3500
chain9	9e-04	0.0011	0.0016	0.0016	0.0022	0.0032	1000.0000	-1.0797	0.2227
chain10	8e-04	0.0011	0.0016	0.0016	0.0023	0.0030	1000.0000	1.8116	0.0773



### Seroprevalence Observed vs. Inferred True Prev



## Death Posterior Predictive Check



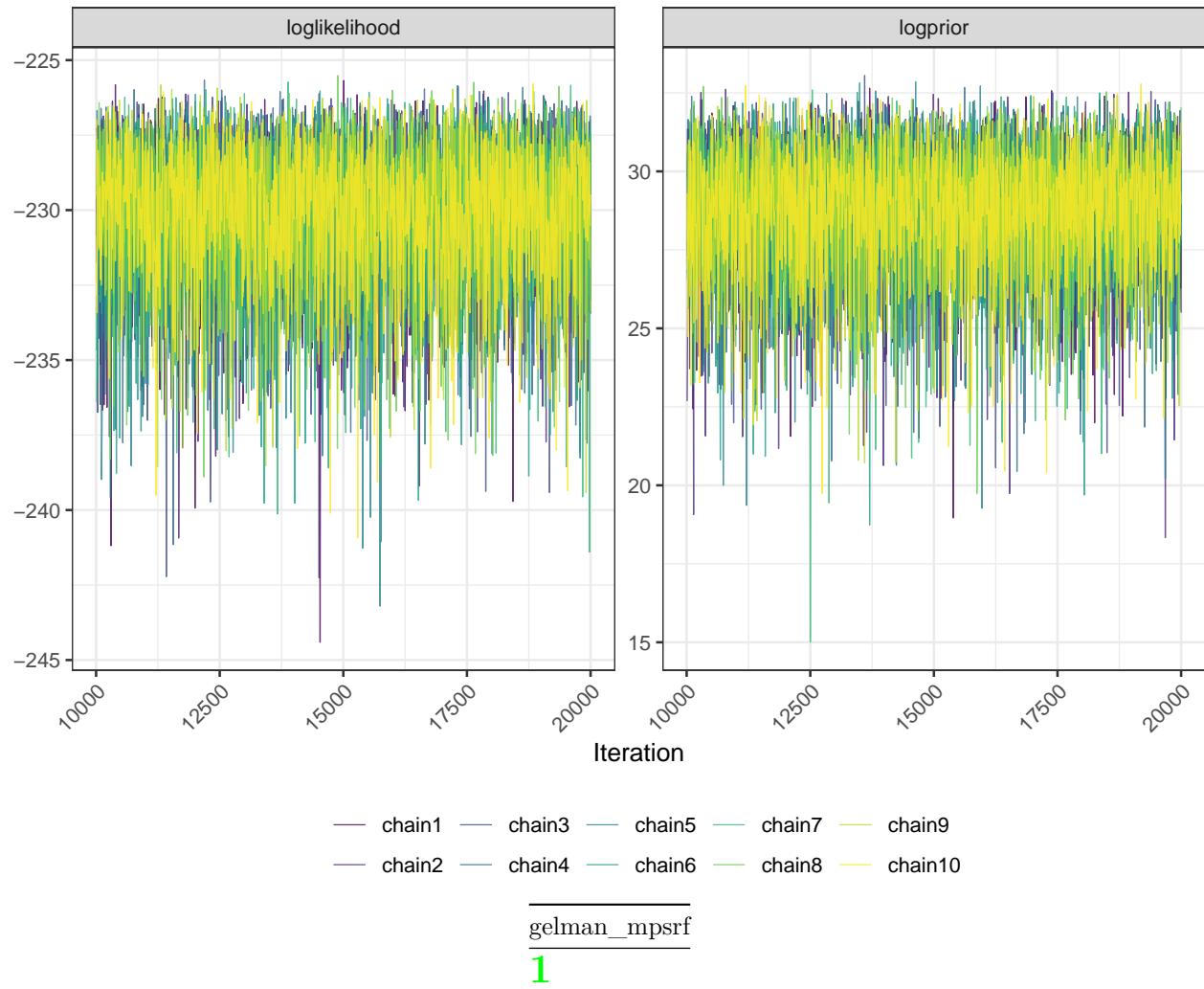
## Additional Parameters

param	min	LCI	median	mean	UCI	max	ESS	GewekeZ	GewekeP
x1	1.0325	2.2001	74.5149	70.2609	83.1807	88.7899	1303.241	-0.7132	0.3094
x2	63.3777	76.3283	85.4557	85.7230	96.7729	109.3156	1987.050	-2.9393	0.0053
x3	83.1605	87.1623	97.5721	98.6693	115.3331	229.4050	3803.273	-0.2802	0.3836
x4	216.0040	216.7200	224.9723	224.3945	229.7988	229.9994	6999.898	-0.3761	0.3717
y1	0.0007	0.1254	2.4749	2.5932	5.8303	7.9558	7352.166	-0.5282	0.3470
y2	0.0005	0.0990	2.2629	2.6006	6.7517	8.9712	2613.360	-4.8352	0.0000
y3	3.1631	4.4861	7.5531	7.3558	9.0345	10.5663	1061.366	-2.7760	0.0085
y4	0.0004	0.1305	2.8567	3.1005	7.3025	8.8027	5362.634	-1.1758	0.1998
y5	0.0007	0.1105	2.2437	2.4966	6.2584	9.3977	9109.208	-1.2717	0.1777
Ne1	0.8088	0.9054	0.9997	0.9997	1.0936	1.1880	9681.667	1.0373	0.2330
Ne2	0.8212	0.9051	1.0001	1.0000	1.0951	1.1910	10000.000	-0.4369	0.3626
Ne3	0.8136	0.9071	1.0004	1.0003	1.0958	1.1880	10000.000	2.2351	0.0328
Ne4	0.8035	0.9071	1.0000	1.0003	1.0966	1.1895	10511.507	-0.0405	0.3986
Ne5	0.7946	0.9050	0.9998	0.9999	1.0929	1.2089	9713.605	-0.6537	0.3222
Ne6	0.8076	0.9055	0.9993	0.9993	1.0949	1.1832	10850.802	0.1536	0.3943
Ne7	0.8336	0.9139	1.0035	1.0031	1.0955	1.1836	10000.000	1.4845	0.1325

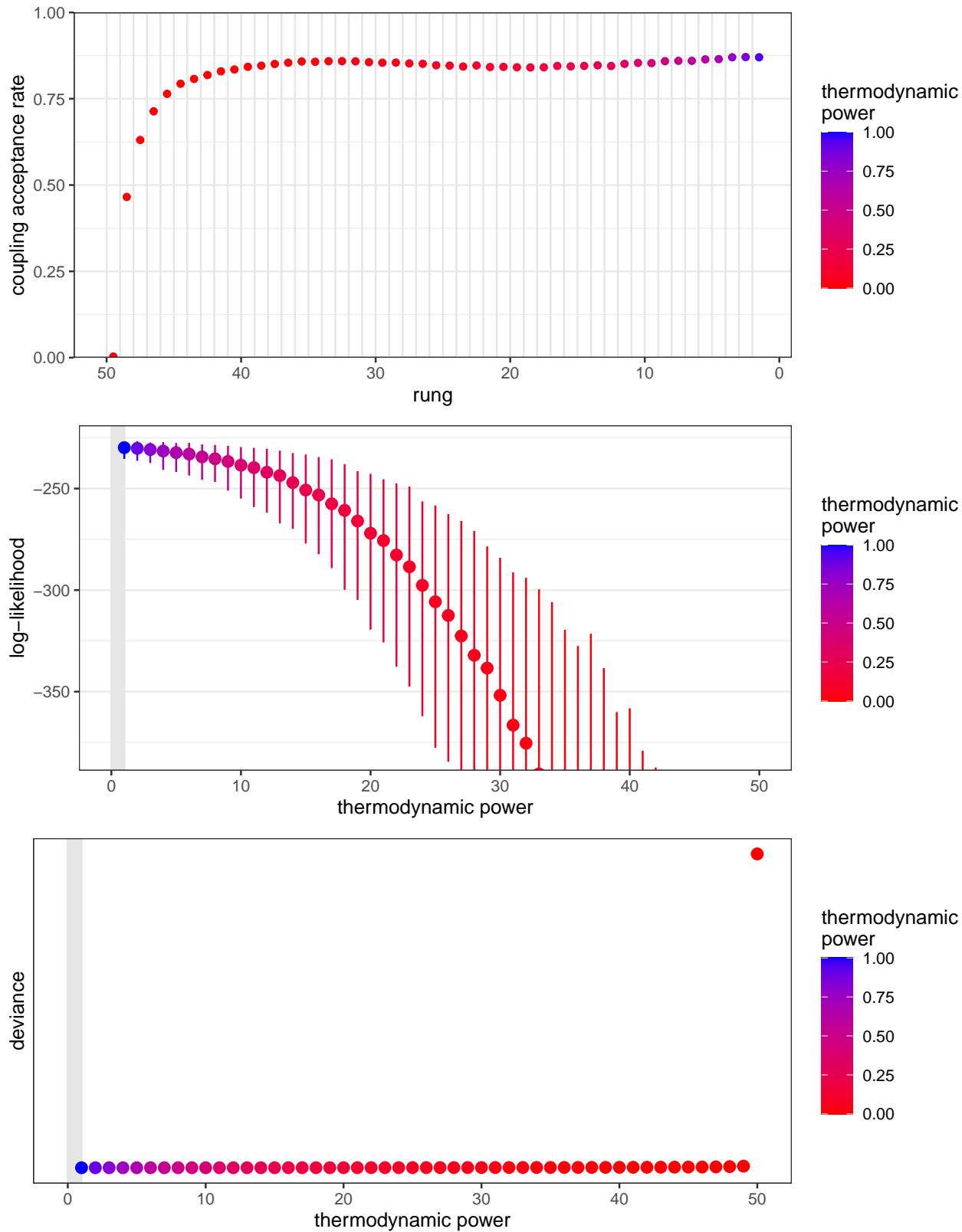
# DNK1 with Care Homes Excluded

## Fit Diagnostics

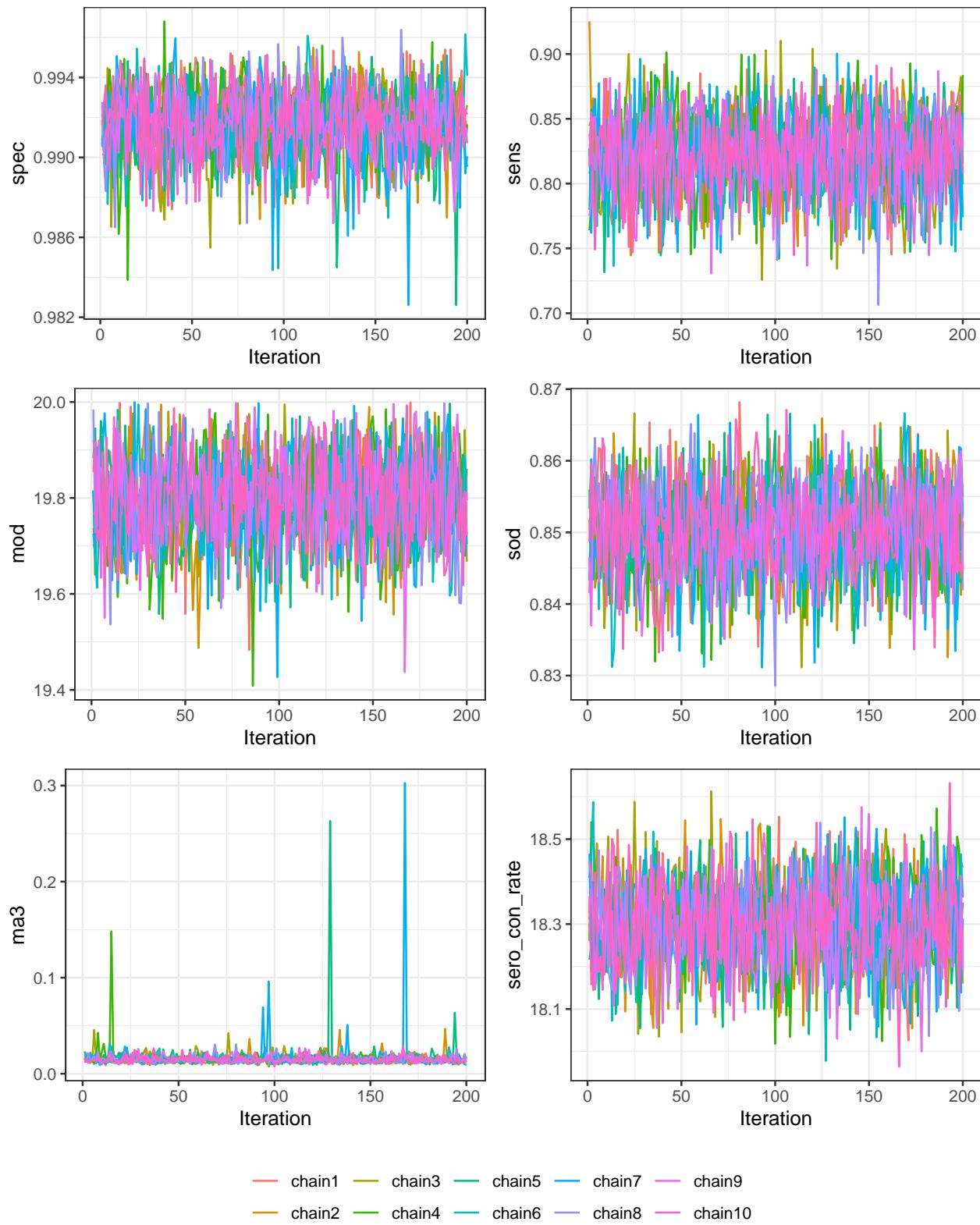
### Log Likelihood & Prior Plot



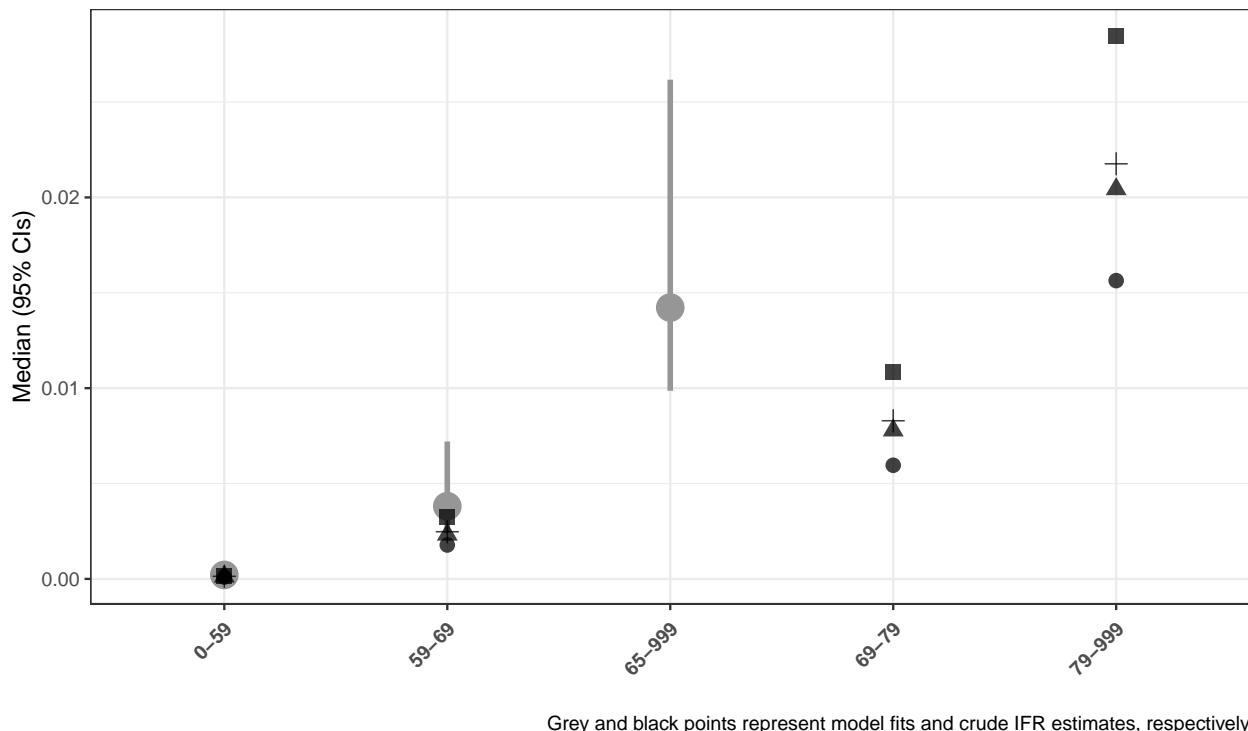
### Metropolis Coupling Acceptance Plot



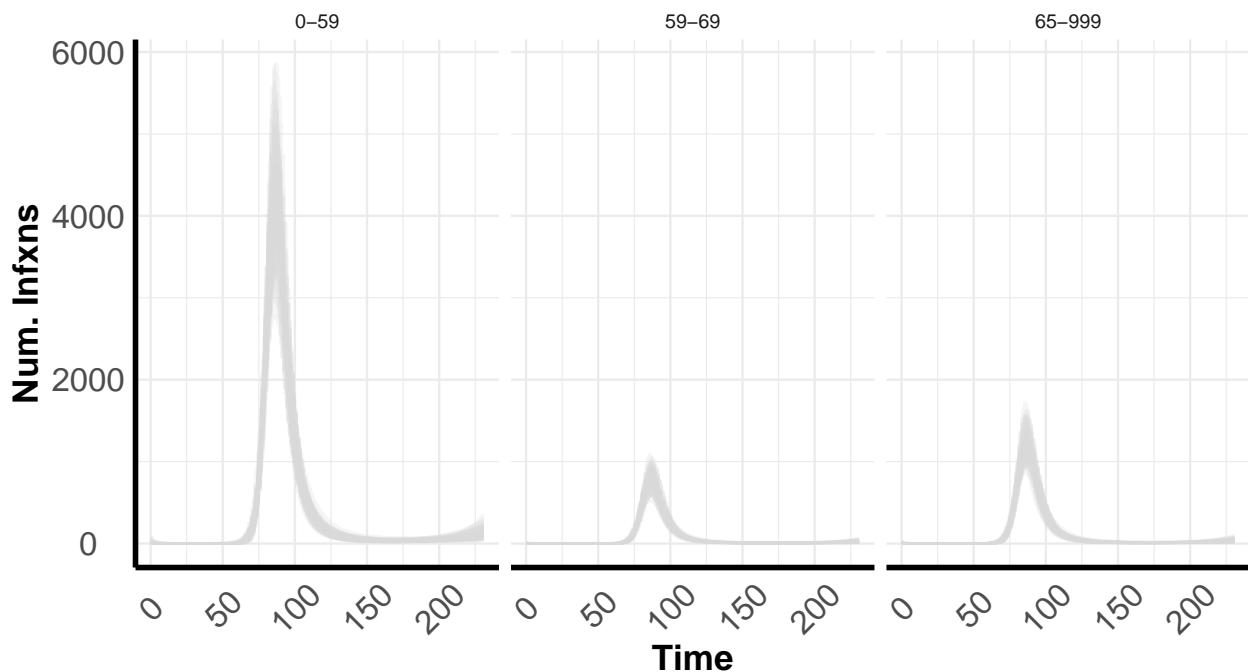
## Serological Diagnostics



## IFRs & Incidence Curve



## Posterior Draws of the Infection Curve



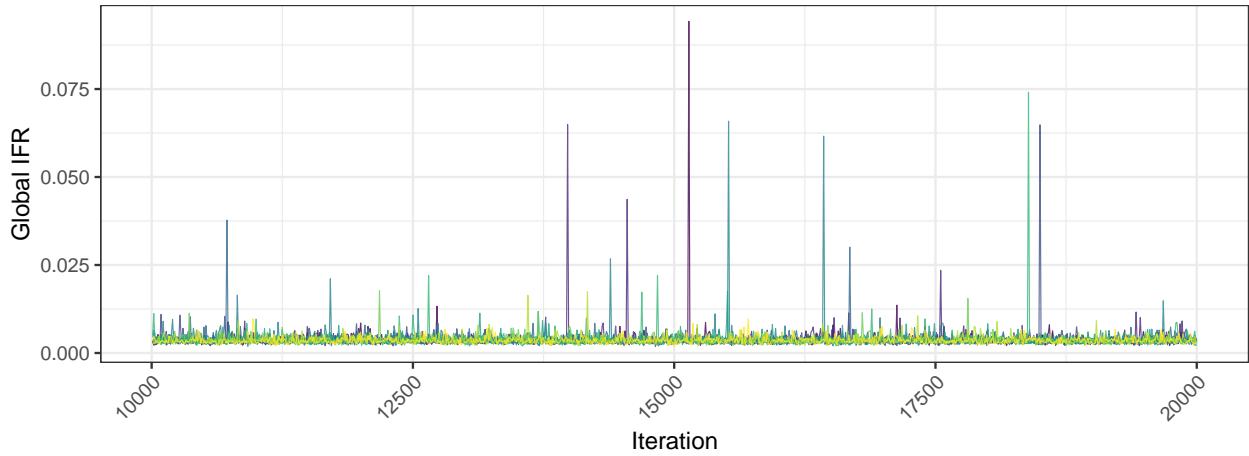
## Strata IFR

strata	param	min	LCI	median	mean	UCI	max	ESS	GewekeZ	GewekeP
0-59	ma1	0.0000	0.0001	0.0002	0.0002	0.0004	0.0051	9629.939	0.0418	0.3986
59-69	ma2	0.0017	0.0024	0.0038	0.0041	0.0072	0.1216	9685.296	0.8275	0.2833
65-999	ma3	0.0073	0.0099	0.0142	0.0154	0.0262	0.3803	9686.254	0.5816	0.3369

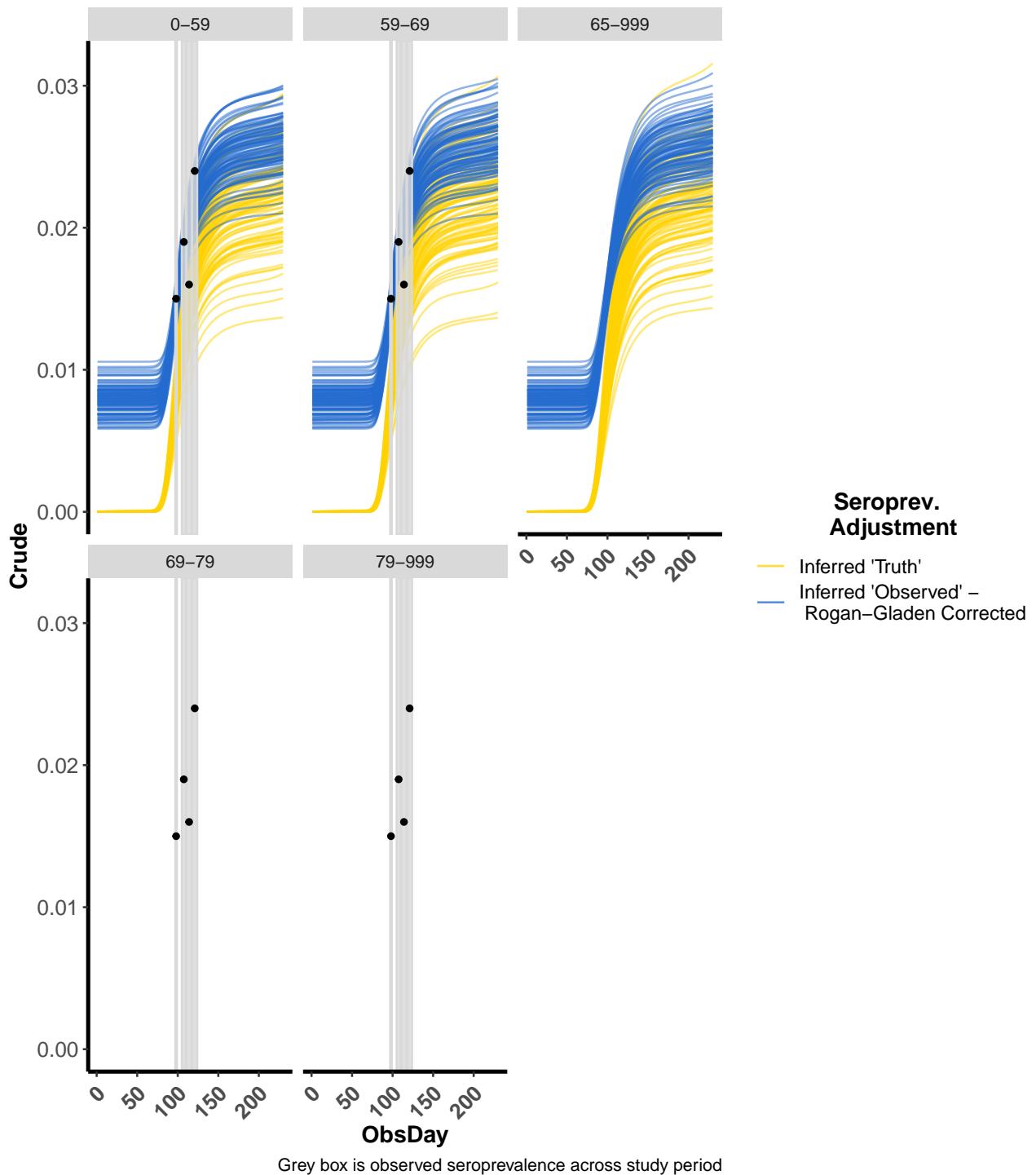
## Overall IFR

min	LCI	median	mean	UCI	max	ESS	GewekeZ	GewekeP
0.0018	0.0024	0.0034	0.0037	0.0063	0.0942	10000	1.1137	0.2146

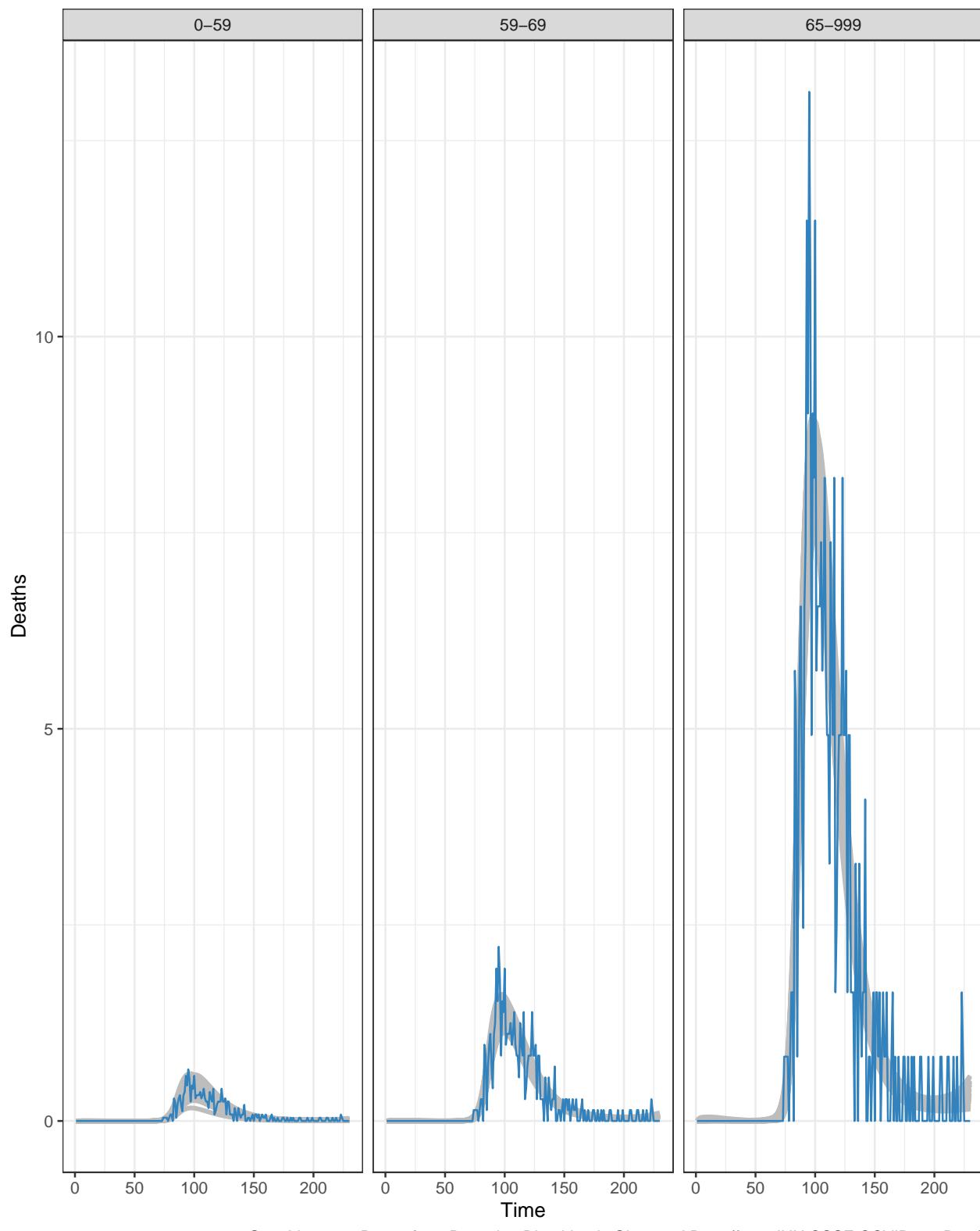
chain	min	LCI	median	mean	UCI	max	ESS	GewekeZ	GewekeP
chain1	0.0021	0.0024	0.0035	0.0037	0.0059	0.0942	1000.0000	-0.5635	0.3404
chain2	0.0021	0.0024	0.0035	0.0038	0.0065	0.0649	1000.0000	-1.2553	0.1814
chain3	0.0019	0.0025	0.0035	0.0037	0.0061	0.0648	1000.0000	1.1141	0.2145
chain4	0.0021	0.0024	0.0034	0.0037	0.0062	0.0378	909.3310	1.1342	0.2097
chain5	0.0019	0.0024	0.0035	0.0039	0.0069	0.0659	1000.0000	1.3777	0.1544
chain6	0.0020	0.0024	0.0034	0.0037	0.0067	0.0176	631.8505	0.8003	0.2896
chain7	0.0020	0.0024	0.0034	0.0038	0.0063	0.0741	1000.0000	-0.3823	0.3708
chain8	0.0020	0.0023	0.0034	0.0036	0.0061	0.0177	830.1188	1.2156	0.1906
chain9	0.0021	0.0024	0.0034	0.0037	0.0063	0.0174	1000.0000	-0.0220	0.3988
chain10	0.0018	0.0024	0.0034	0.0036	0.0061	0.0097	553.9664	-1.3919	0.1514



### Seroprevalence Observed vs. Inferred True Prev



## Death Posterior Predictive Check



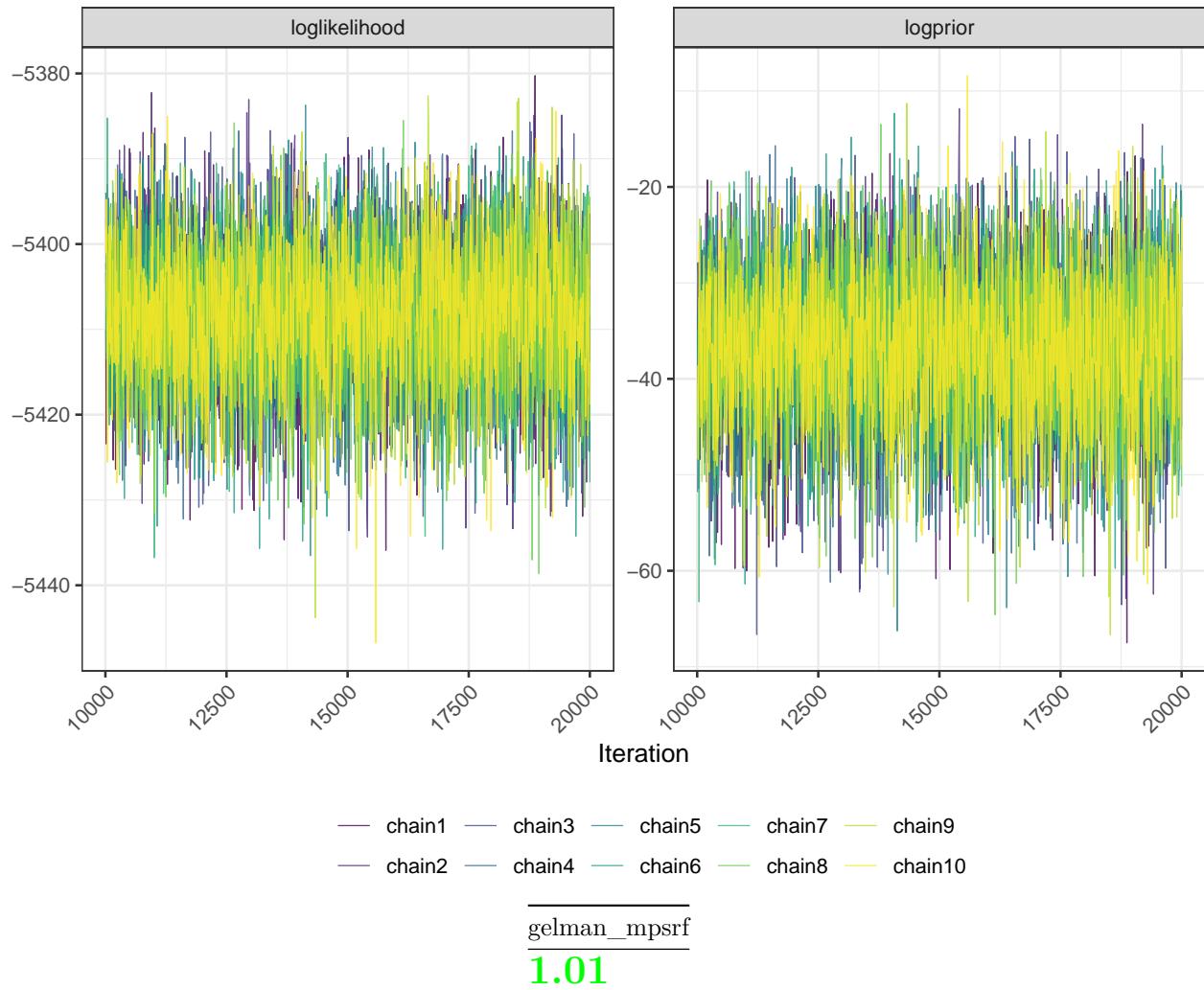
## Additional Parameters

param	min	LCI	median	mean	UCI	max	ESS	GewekeZ	GewekeP
x1	1.1156	2.6885	58.3218	53.3864	71.4516	82.1192	1713.425	-0.0510	0.3984
x2	66.9827	72.7411	81.2955	81.5443	90.7968	96.6657	2311.561	-0.1673	0.3934
x3	85.1558	90.2692	100.4430	101.1296	116.6616	137.9775	2119.476	0.8482	0.2784
x4	216.0005	216.3950	223.1921	223.1055	229.6123	230.0000	6321.835	-0.0607	0.3982
y1	0.0000	0.0947	1.9208	2.0968	5.0263	7.2554	8010.992	0.7757	0.2953
y2	0.0006	0.0665	1.7417	2.0767	5.7927	8.3123	2994.390	-0.5116	0.3500
y3	4.4512	6.6719	8.2984	8.1599	8.9811	9.3834	1898.528	-0.4017	0.3680
y4	1.5290	5.5497	7.4302	7.3332	8.4936	9.0352	2209.872	-0.8655	0.2743
y5	1.3843	3.4865	4.8859	4.8674	6.0930	7.3511	9277.860	2.1861	0.0366
Ne1	0.8234	0.9043	1.0003	1.0005	1.0958	1.1941	9535.713	-0.4768	0.3561
Ne2	0.8127	0.9023	0.9995	0.9998	1.0957	1.1766	9205.576	-1.1866	0.1973
Ne3	0.8226	0.9030	1.0002	1.0002	1.0974	1.1792	9617.600	-1.8586	0.0709

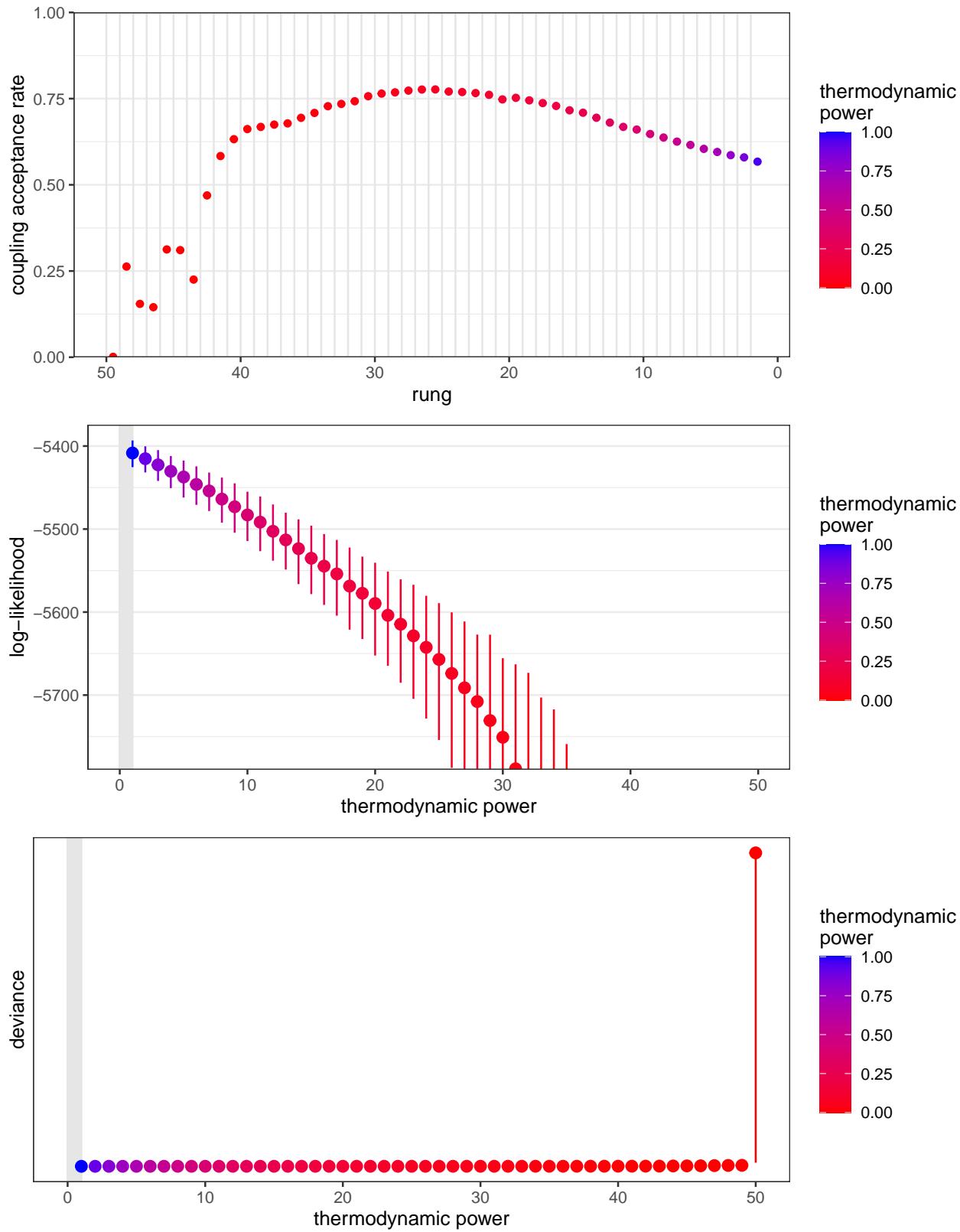
## ESP1-2 with Care Homes Excluded

### Fit Diagnostics

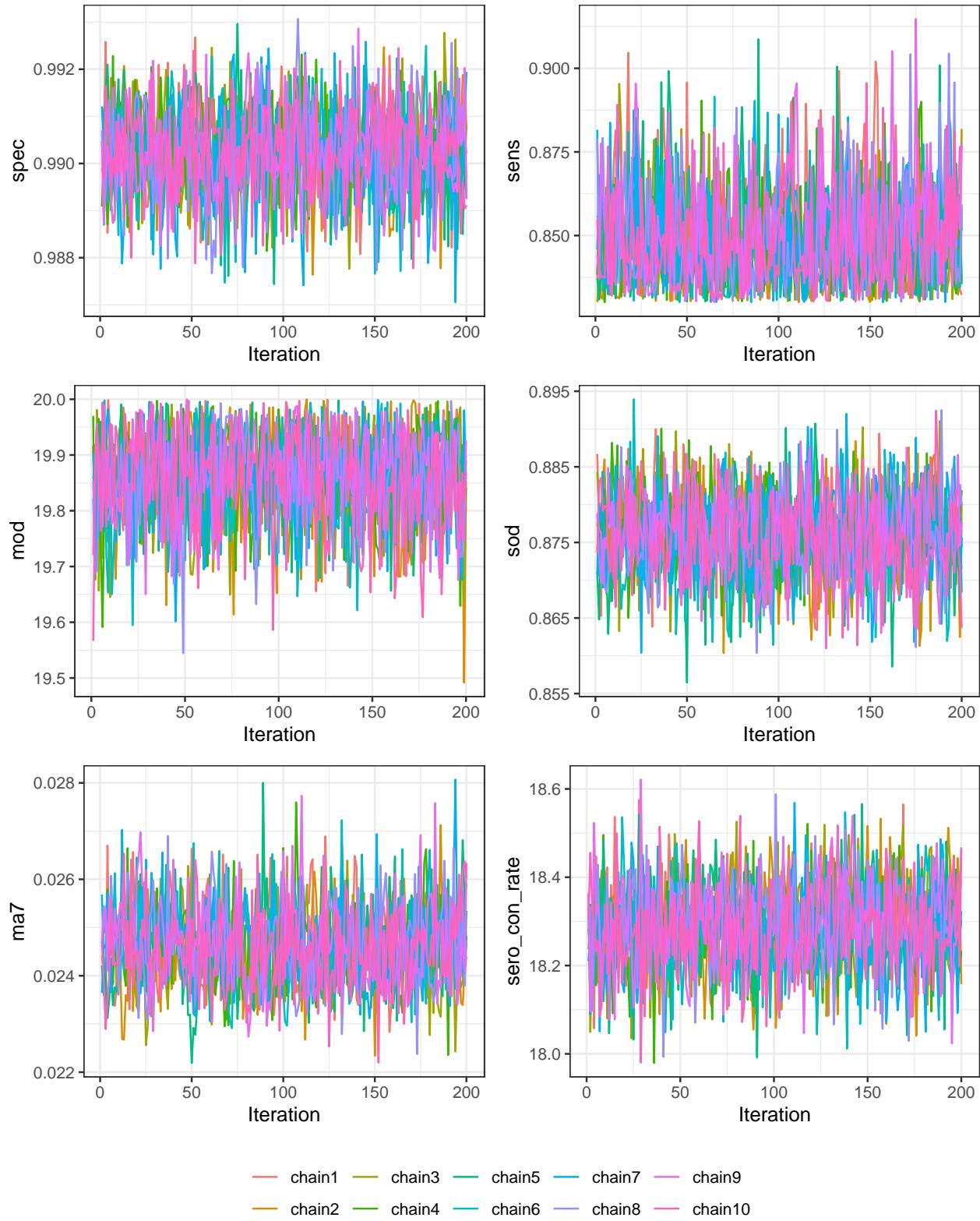
#### Log Likelihood & Prior Plot



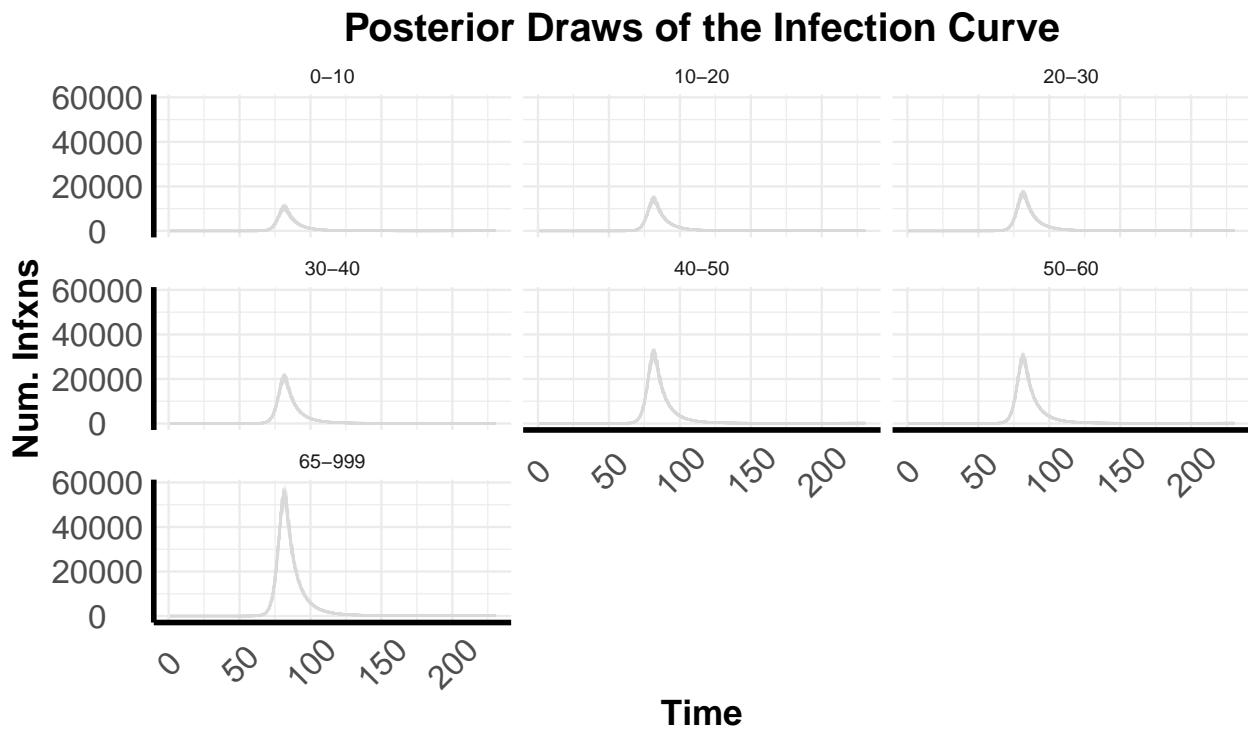
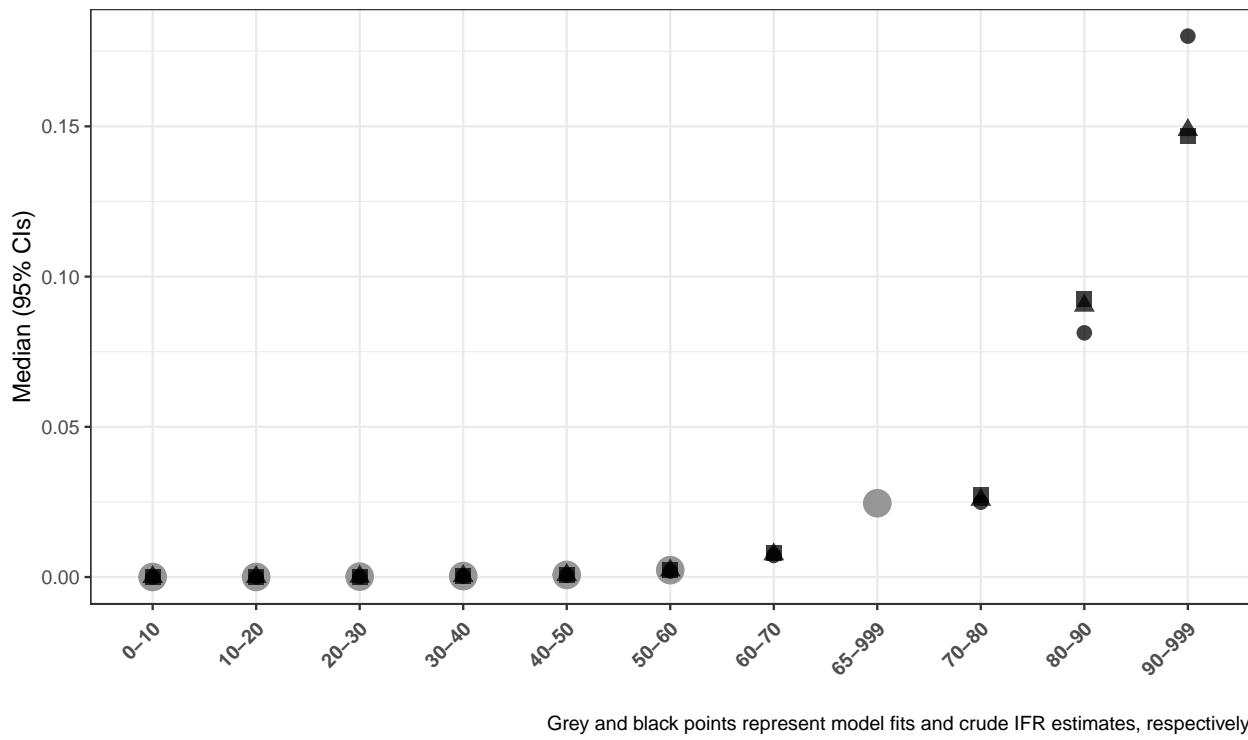
### Metropolis Coupling Acceptance Plot



## Serological Diagnostics



## IFRs & Incidence Curve



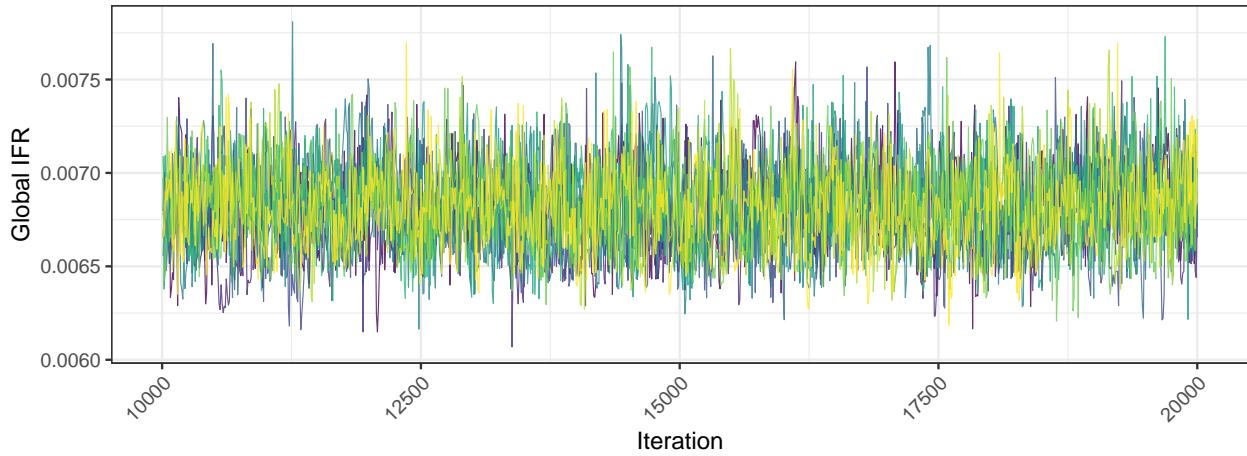
### Strata IFR

strata	param	min	LCI	median	mean	UCI	max	ESS	GewekeZ	GewekeP
0-10	ma1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001	9623.787	-0.0025	0.3989
10-20	ma2	0.0000	0.0000	0.0000	0.0000	0.0001	0.0001	8344.658	-2.8209	0.0075
20-30	ma3	0.0001	0.0001	0.0001	0.0001	0.0002	0.0003	9279.349	-0.6040	0.3324
30-40	ma4	0.0002	0.0003	0.0003	0.0003	0.0004	0.0005	9053.930	-0.1081	0.3966
40-50	ma5	0.0005	0.0006	0.0007	0.0007	0.0008	0.0009	4887.146	0.2916	0.3823
50-60	ma6	0.0020	0.0021	0.0023	0.0023	0.0025	0.0028	5280.465	1.1393	0.2085
65-999	ma7	0.0219	0.0231	0.0246	0.0246	0.0263	0.0283	2185.484	-0.1587	0.3939

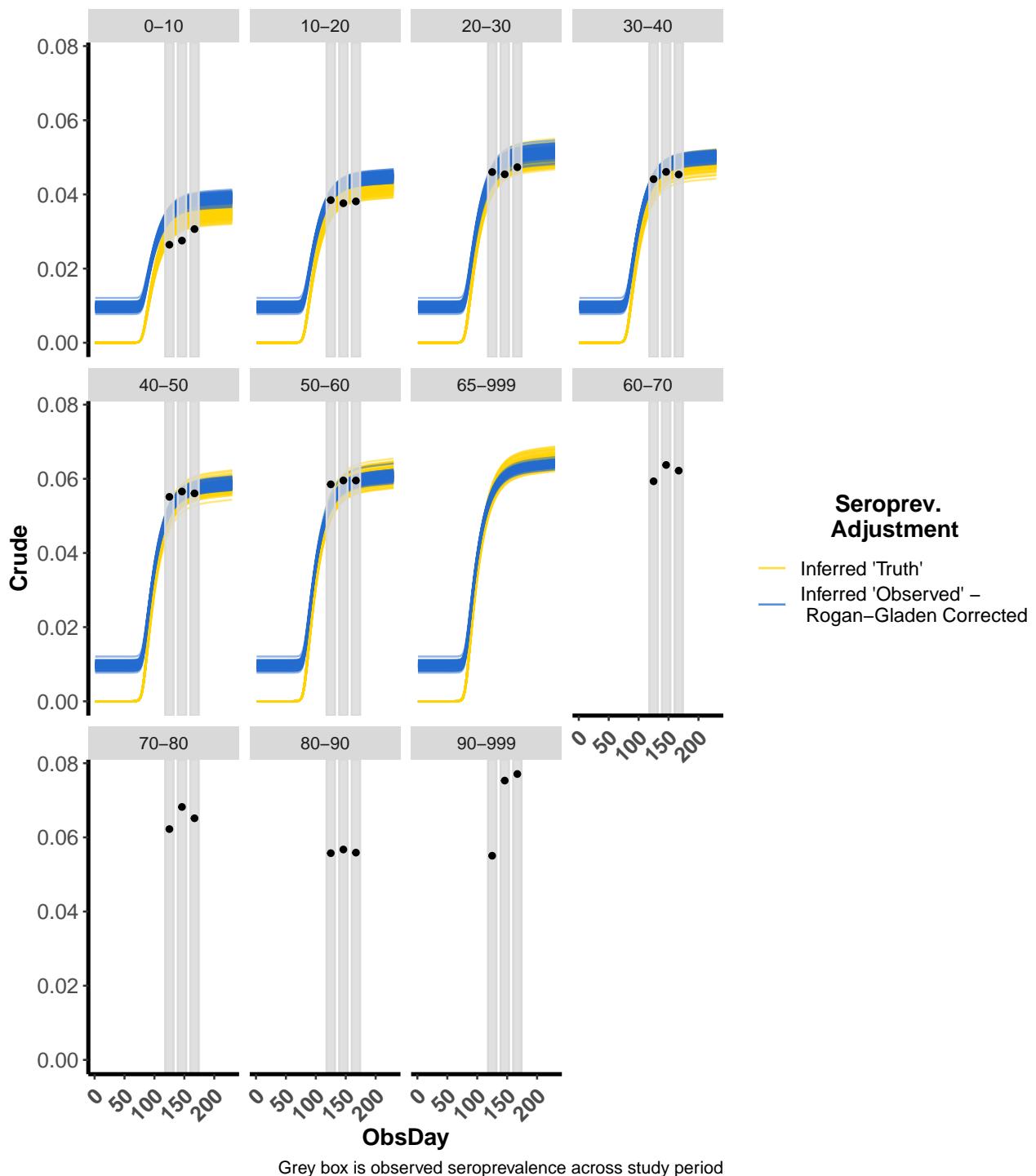
### Overall IFR

min	LCI	median	mean	UCI	max	ESS	GewekeZ	GewekeP
0.0061	0.0064	0.0068	0.0068	0.0073	0.0078	2611.242	-0.05	0.3984

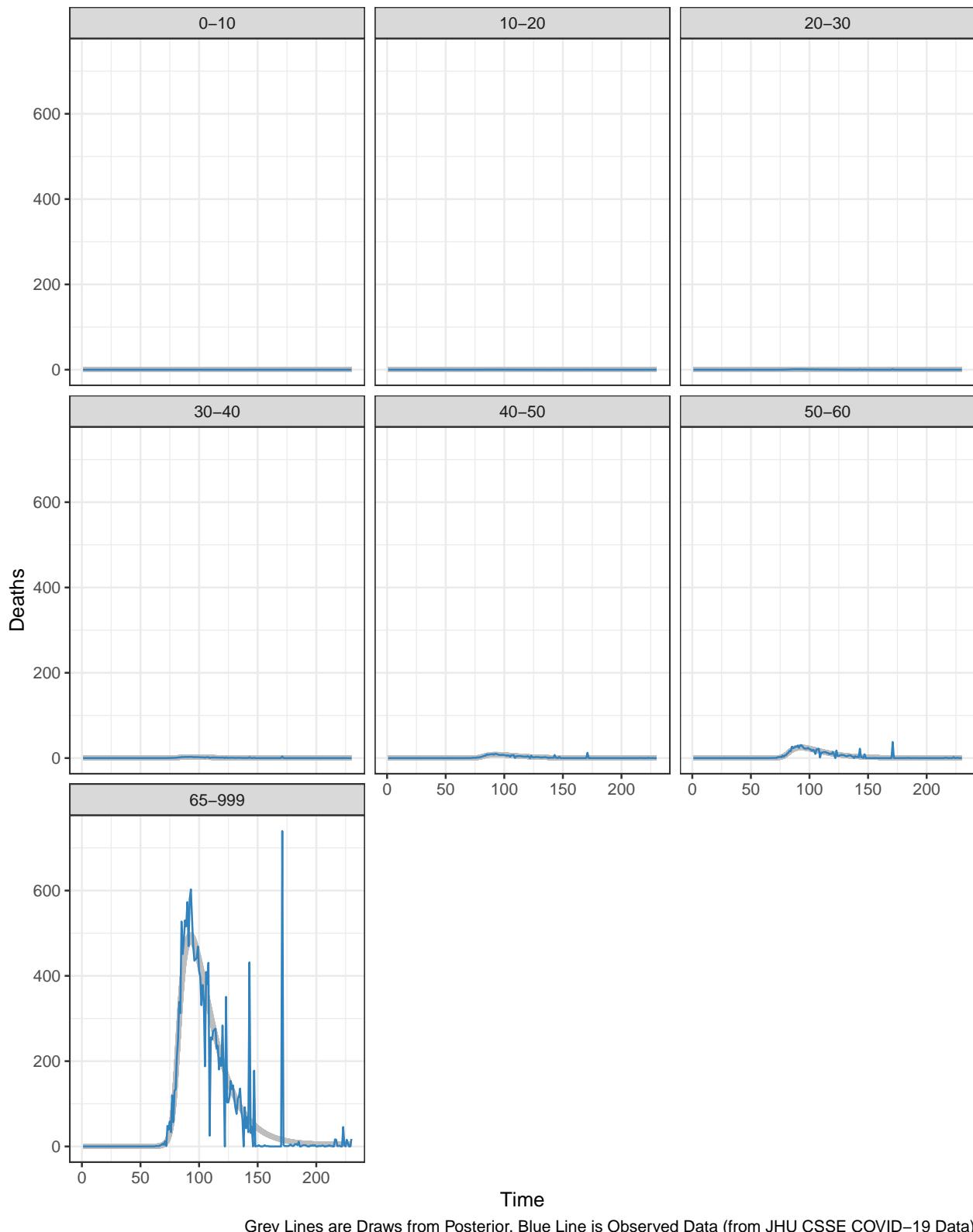
chain	min	LCI	median	mean	UCI	max	ESS	GewekeZ	GewekeP
chain1	0.0061	0.0064	0.0068	0.0068	0.0073	0.0076	212.0735	-2.0639	0.0474
chain2	0.0061	0.0064	0.0068	0.0068	0.0072	0.0075	242.0140	-2.4355	0.0206
chain3	0.0062	0.0064	0.0068	0.0068	0.0072	0.0076	213.2279	1.7101	0.0925
chain4	0.0062	0.0064	0.0068	0.0068	0.0073	0.0077	352.7635	0.7288	0.3059
chain5	0.0062	0.0064	0.0068	0.0068	0.0073	0.0078	235.8141	-1.1602	0.2035
chain6	0.0062	0.0064	0.0068	0.0068	0.0073	0.0076	419.4847	1.6244	0.1066
chain7	0.0063	0.0064	0.0068	0.0068	0.0073	0.0077	338.1385	0.2979	0.3816
chain8	0.0062	0.0064	0.0068	0.0068	0.0073	0.0076	292.6013	1.0438	0.2314
chain9	0.0063	0.0064	0.0068	0.0068	0.0073	0.0077	252.8548	2.8234	0.0074
chain10	0.0062	0.0064	0.0068	0.0068	0.0073	0.0077	397.8541	0.0662	0.3981



### Seroprevalence Observed vs. Inferred True Prev



## Death Posterior Predictive Check



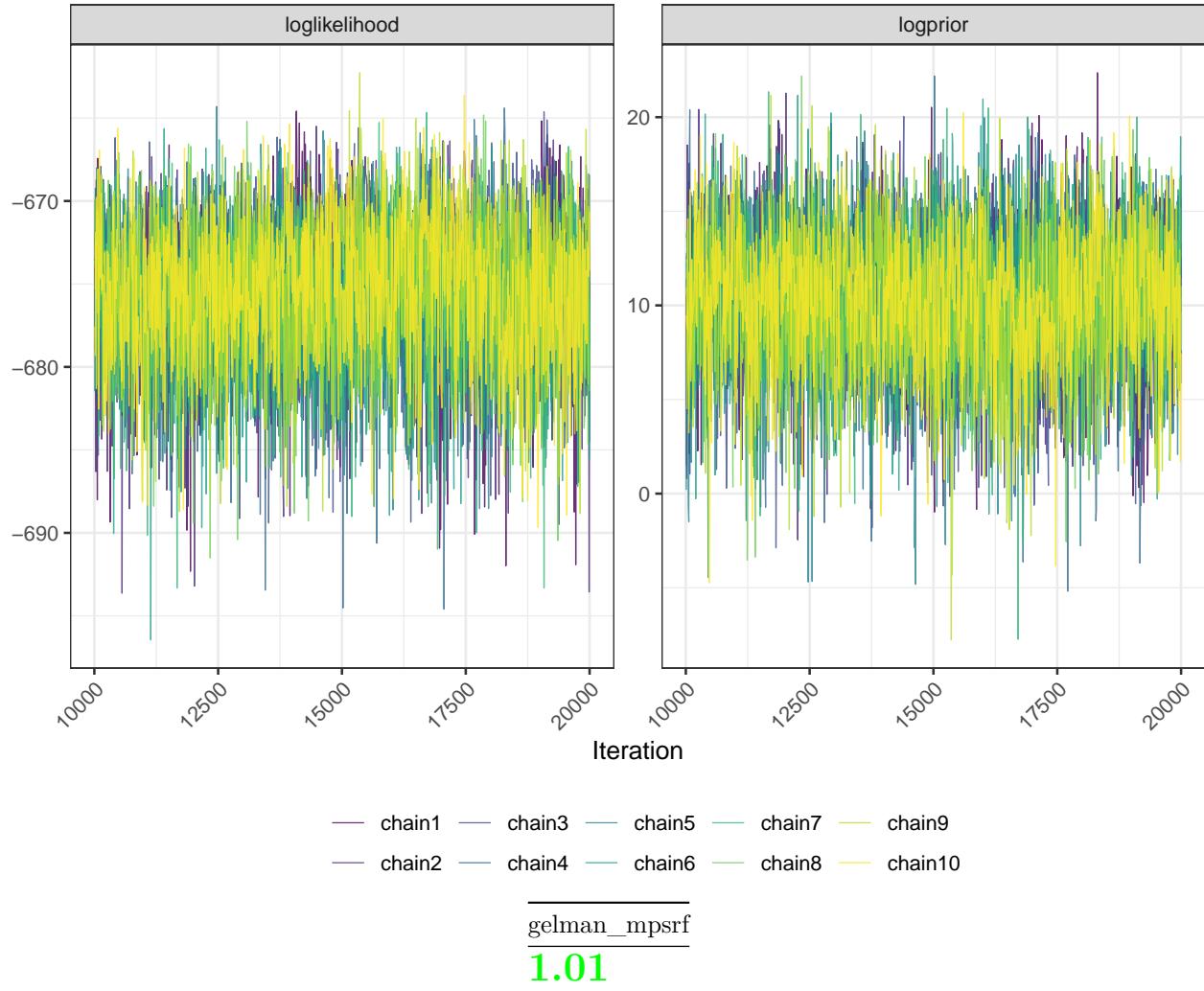
## Additional Parameters

param	min	LCI	median	mean	UCI	max	ESS	GewekeZ	GewekeP
x1	1.1424	53.2400	64.8366	64.2331	72.4994	77.2712	983.8367	-3.4351	0.0011
x2	77.7567	80.5134	82.4750	82.4072	83.9165	85.1478	573.8914	0.5593	0.3412
x3	82.0376	83.6812	85.2186	85.2467	86.8500	88.6640	606.3330	2.5988	0.0136
x4	216.0015	216.1562	221.2435	221.7730	229.3923	229.9872	544.2512	1.5003	0.1295
y1	0.0004	0.0478	1.0757	1.2628	3.4809	5.2370	4826.7464	2.4557	0.0196
y2	0.0159	1.2249	6.9567	6.6416	9.8695	11.3239	800.4902	-3.9353	0.0002
y3	11.6354	11.9054	12.0177	12.0161	12.1221	12.2494	706.1423	-1.9009	0.0655
y4	11.3028	11.5148	11.7170	11.7127	11.8909	12.0918	537.9105	-2.3761	0.0237
y5	6.2683	6.4685	6.7501	6.7576	7.0913	7.3752	1882.8284	1.0538	0.2290
Ne1	0.5330	0.5880	0.6558	0.6557	0.7260	0.7932	8844.8869	-0.7488	0.3014
Ne2	0.6681	0.7270	0.7895	0.7897	0.8552	0.9101	8809.1855	-0.2752	0.3841
Ne3	0.8153	0.8663	0.9329	0.9336	1.0019	1.0670	8146.3080	-0.4878	0.3542
Ne4	0.7910	0.8467	0.9096	0.9099	0.9740	1.0334	8269.1266	0.9523	0.2535
Ne5	0.9666	1.0313	1.0916	1.0918	1.1532	1.2242	6801.7015	-0.9124	0.2631
Ne6	1.0232	1.0863	1.1477	1.1480	1.2133	1.2881	6775.7568	-2.2895	0.0290
Ne7	1.1040	1.1609	1.2221	1.2223	1.2846	1.3448	4262.3987	0.1787	0.3926

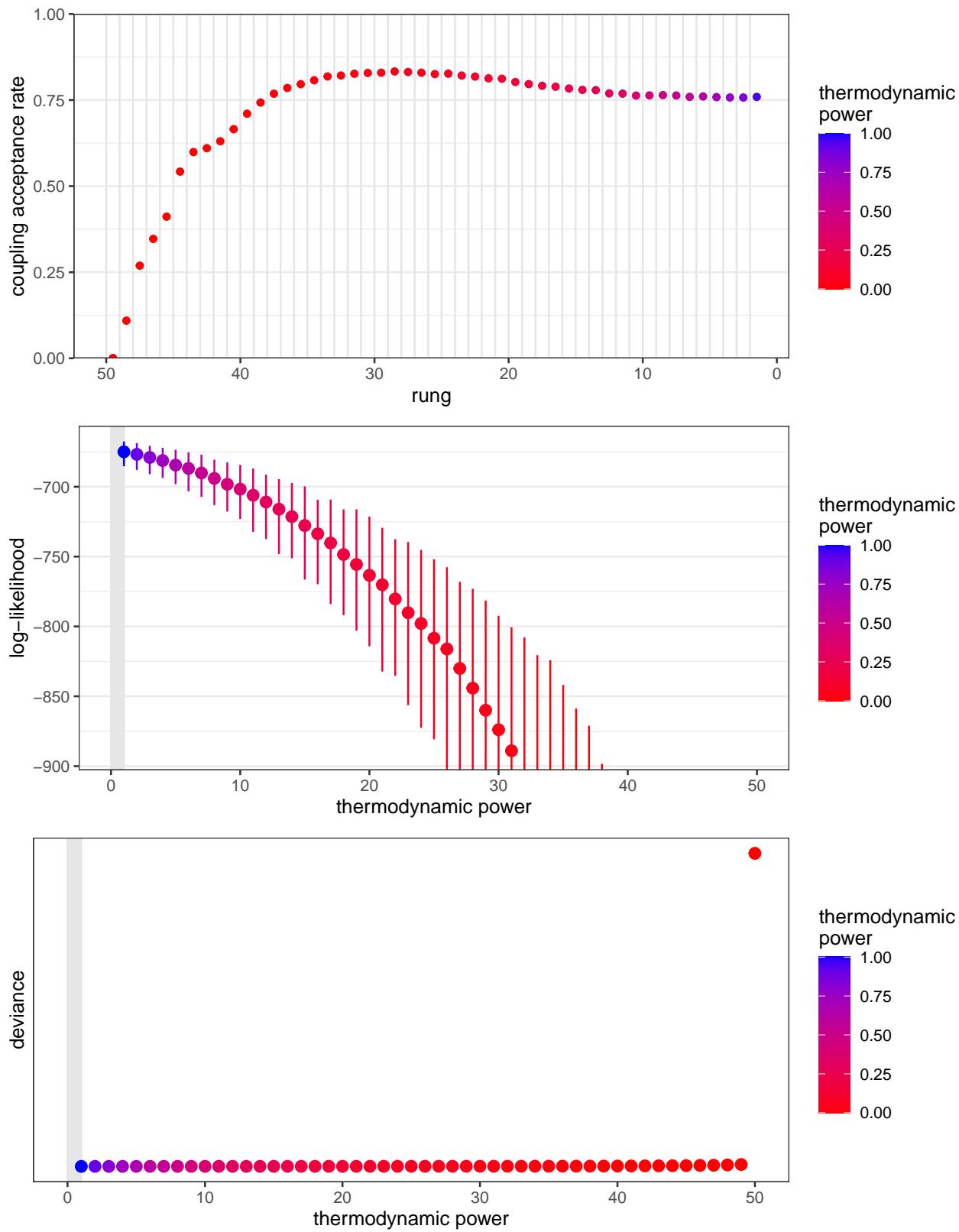
# GBR3 with Care Homes Excluded

## Fit Diagnostics

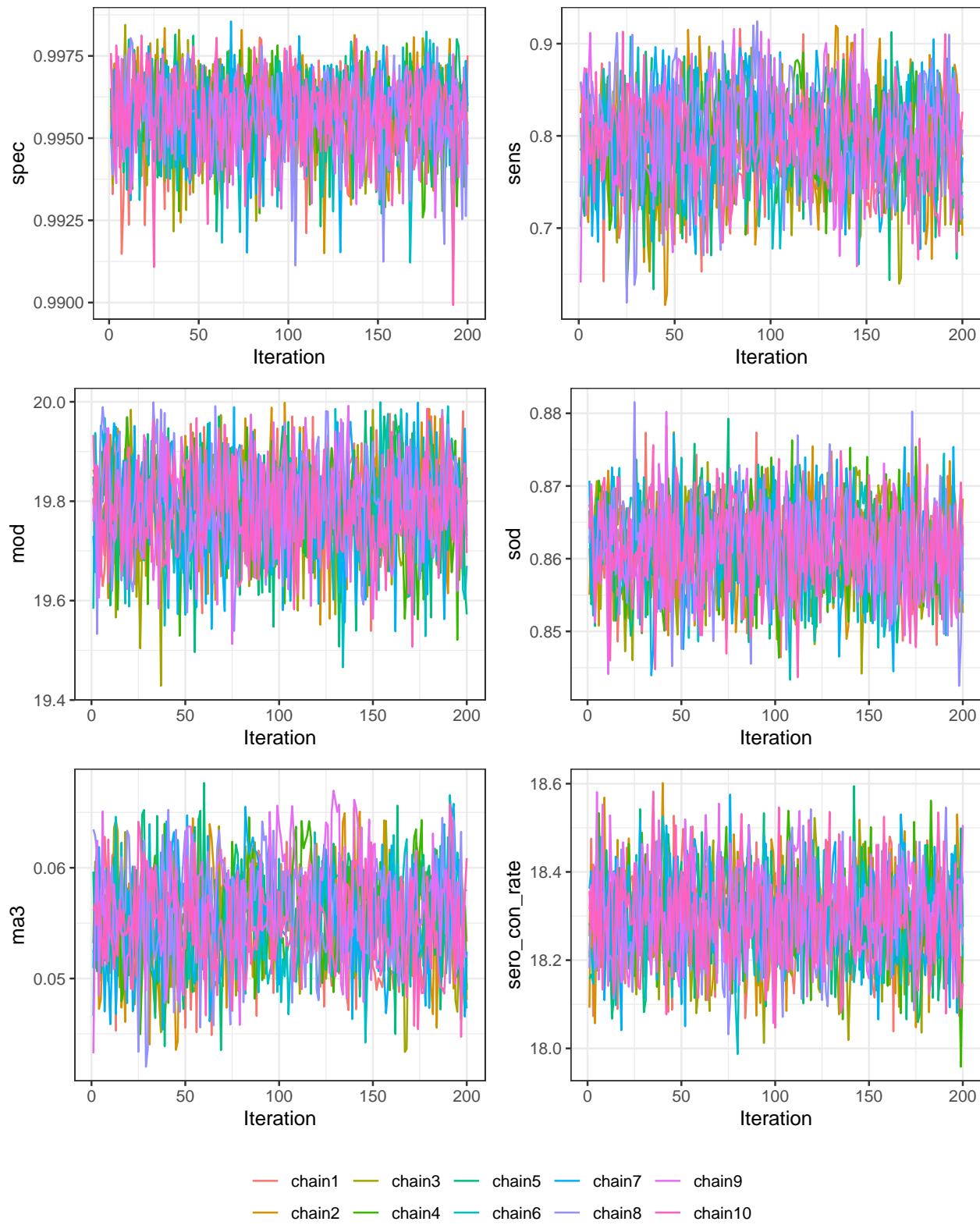
### Log Likelihood & Prior Plot



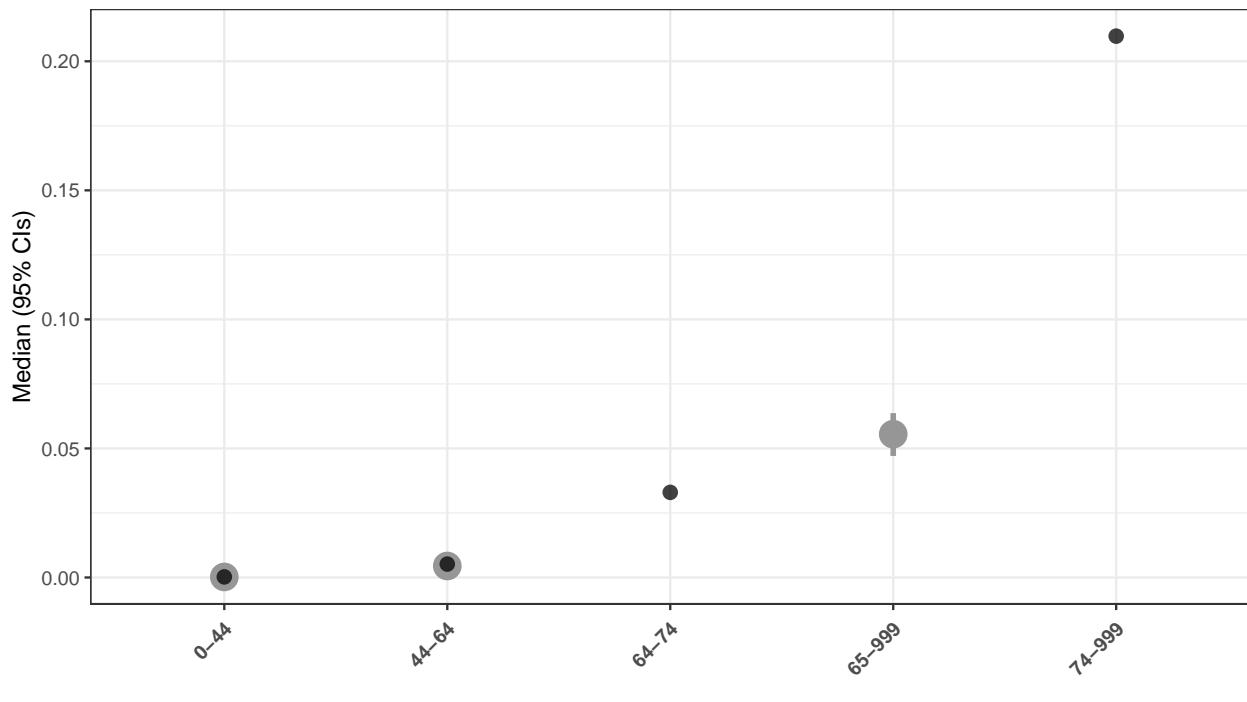
### Metropolis Coupling Acceptance Plot



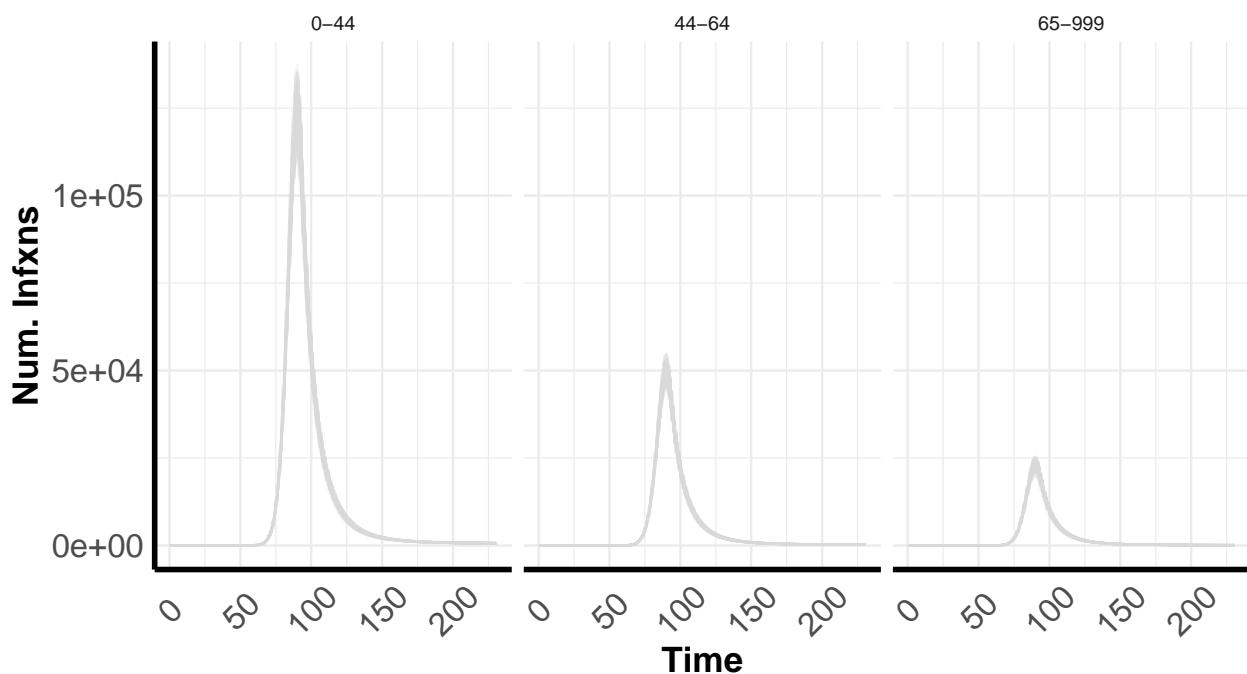
## Serological Diagnostics



## IFRs & Incidence Curve



## Posterior Draws of the Infection Curve



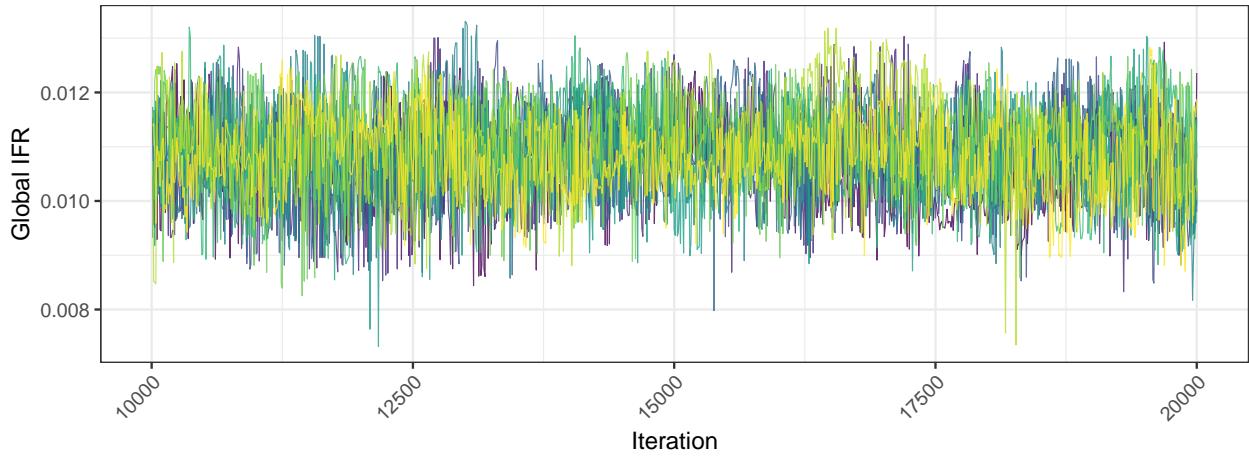
### Strata IFR

strata	param	min	LCI	median	mean	UCI	max	ESS	GewekeZ	GewekeP
0-44	ma1	0.0001	0.0002	0.0002	0.0002	0.0002	0.0003	1481.377	-1.7380	0.0881
44-64	ma2	0.0030	0.0038	0.0045	0.0045	0.0051	0.0056	1267.390	-1.6601	0.1006
65-999	ma3	0.0369	0.0471	0.0555	0.0555	0.0637	0.0682	788.505	-1.8194	0.0762

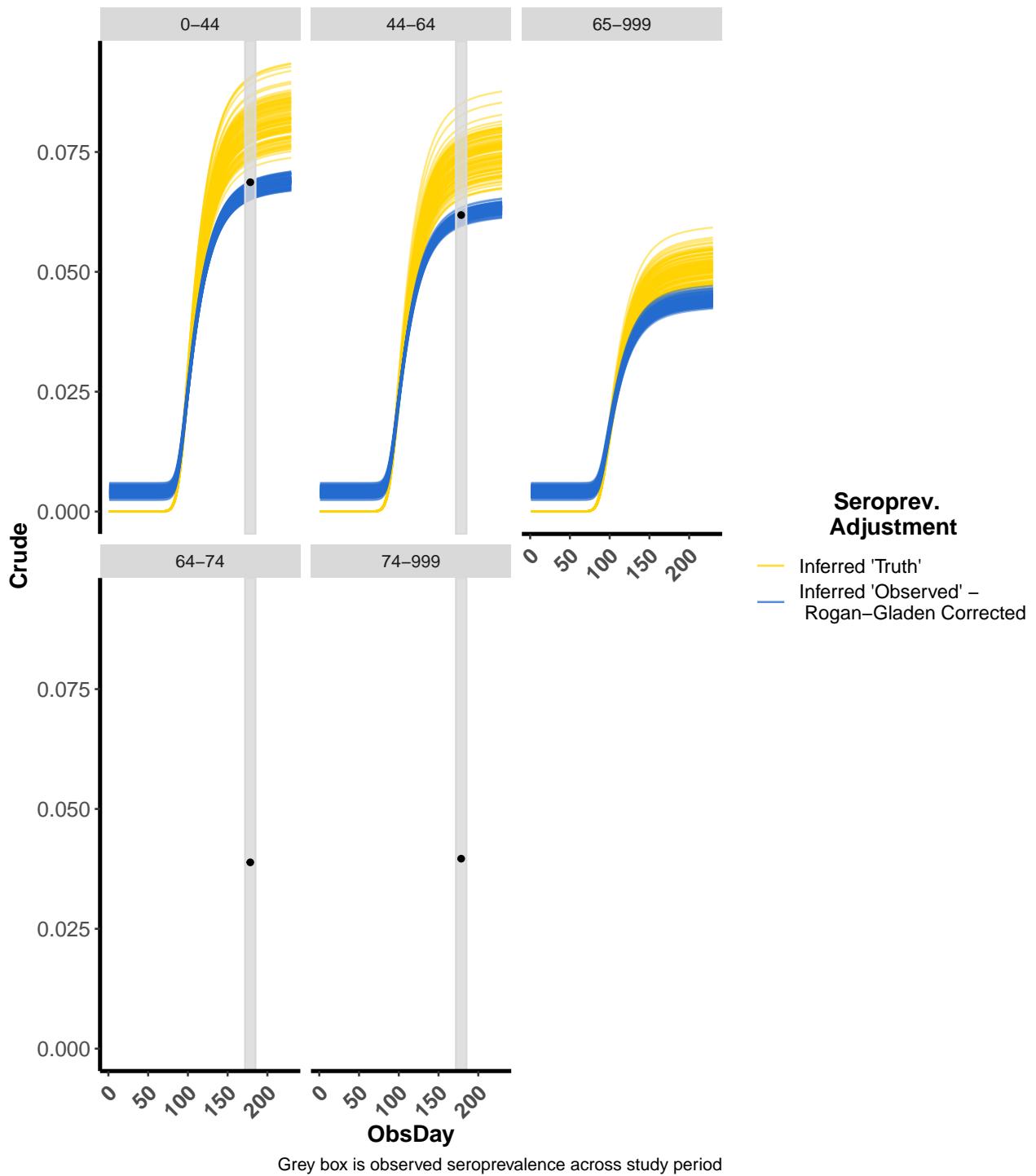
### Overall IFR

min	LCI	median	mean	UCI	max	ESS	GewekeZ	GewekeP
0.0073	0.0093	0.0109	0.0109	0.0124	0.0133	2369.732	-0.5	0.3521

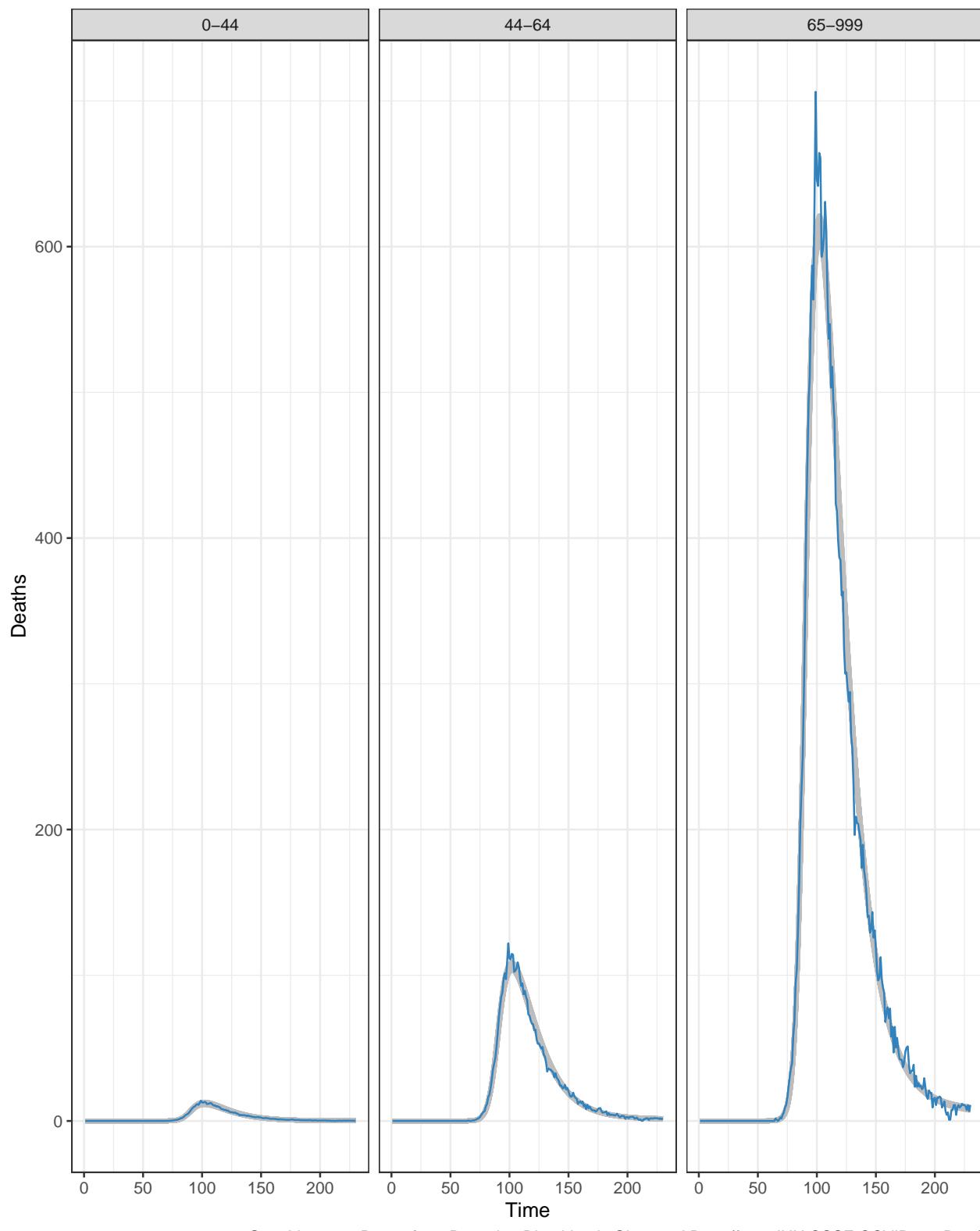
chain	min	LCI	median	mean	UCI	max	ESS	GewekeZ	GewekeP
chain1	0.0084	0.0092	0.0108	0.0108	0.0121	0.0129	92.3109	1.5202	0.1256
chain2	0.0083	0.0090	0.0108	0.0108	0.0125	0.0130	192.0688	-2.1240	0.0418
chain3	0.0085	0.0093	0.0109	0.0108	0.0123	0.0130	155.6251	0.1107	0.3965
chain4	0.0080	0.0095	0.0109	0.0109	0.0124	0.0126	122.4598	-2.8847	0.0062
chain5	0.0082	0.0093	0.0109	0.0109	0.0126	0.0133	102.6329	-0.2303	0.3885
chain6	0.0073	0.0093	0.0108	0.0108	0.0123	0.0130	167.0940	4.7655	0.0000
chain7	0.0088	0.0092	0.0110	0.0110	0.0125	0.0132	54.3053	-2.3749	0.0238
chain8	0.0083	0.0092	0.0111	0.0111	0.0124	0.0127	200.2840	1.8005	0.0789
chain9	0.0073	0.0094	0.0110	0.0110	0.0127	0.0132	152.6875	-1.8236	0.0756
chain10	0.0087	0.0094	0.0108	0.0108	0.0122	0.0128	91.3611	-0.0789	0.3977



### Seroprevalence Observed vs. Inferred True Prev



## Death Posterior Predictive Check



Grey Lines are Draws from Posterior, Blue Line is Observed Data (from JHU CSSE COVID-19 Data)

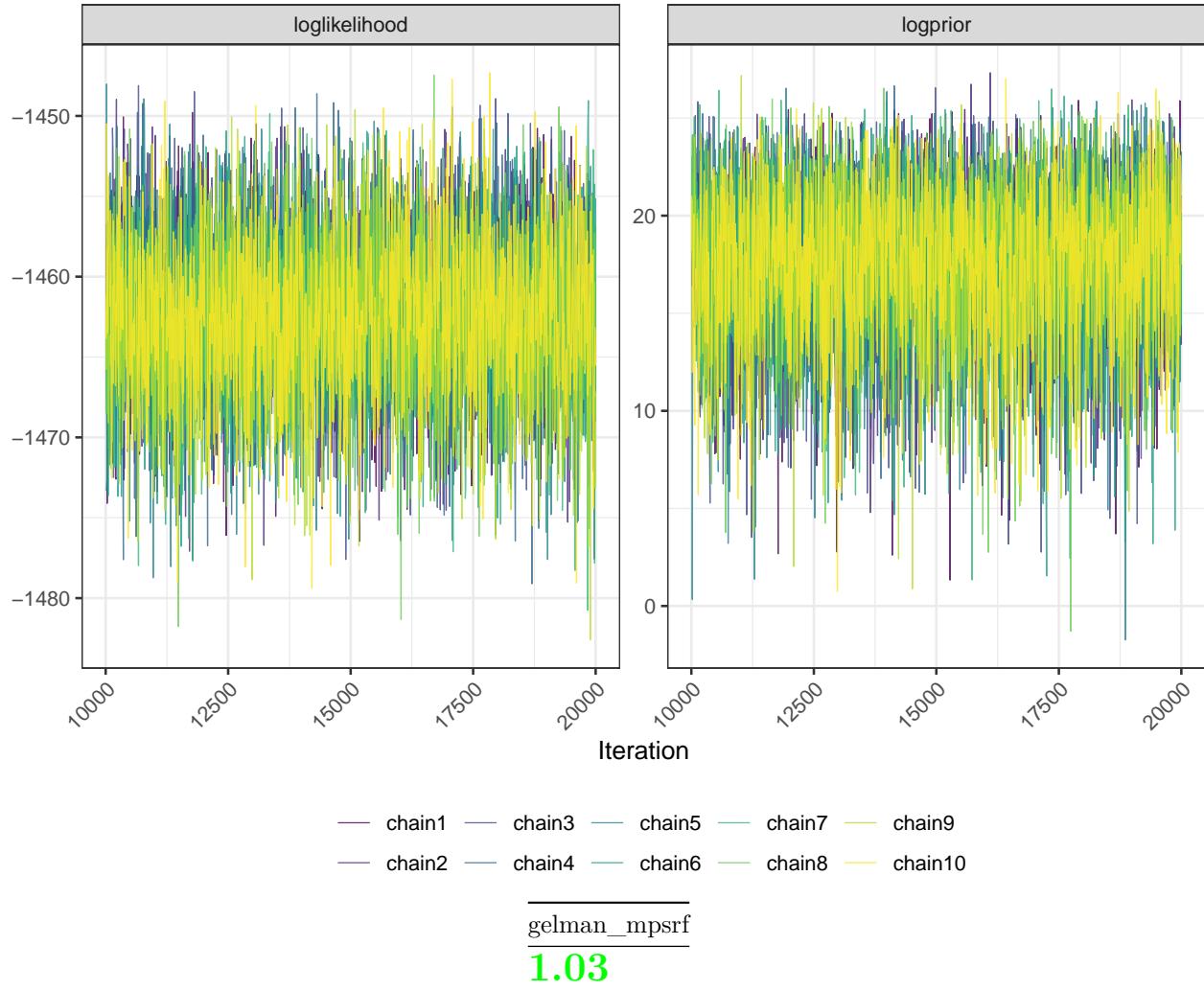
## Additional Parameters

param	min	LCI	median	mean	UCI	max	ESS	GewekeZ	GewekeP
x1	1.6321	3.6192	51.3147	49.5884	62.7711	69.2152	432.6344	-1.3491	0.1606
x2	85.9928	89.3405	91.7751	91.6644	93.4241	94.6273	413.1408	2.2450	0.0321
x3	92.4114	94.0470	95.7322	95.7784	97.8406	100.1505	461.0399	-0.7863	0.2929
x4	216.0001	216.1352	219.5681	220.5219	228.9859	229.9968	368.0825	-1.4035	0.1490
y1	0.0004	0.0580	1.3433	1.5209	4.1959	5.7751	2634.6627	1.8985	0.0658
y2	0.0000	0.1049	2.3755	2.5348	6.1061	7.9608	626.3692	-1.9030	0.0652
y3	11.8881	11.9784	12.1167	12.1209	12.2884	12.5317	581.6047	-0.1094	0.3966
y4	11.2637	11.5622	11.7876	11.7865	11.9951	12.2839	486.2036	1.6921	0.0953
y5	6.4810	6.7513	6.9880	6.9891	7.2278	7.4544	1919.2426	3.3678	0.0014
Ne1	0.9929	1.0726	1.1460	1.1460	1.2199	1.2845	2346.3693	-1.5177	0.1261
Ne2	0.9068	0.9779	1.0448	1.0455	1.1145	1.1666	3032.7302	-1.0755	0.2237
Ne3	0.5933	0.6503	0.7103	0.7104	0.7712	0.8269	1174.1890	0.1796	0.3926

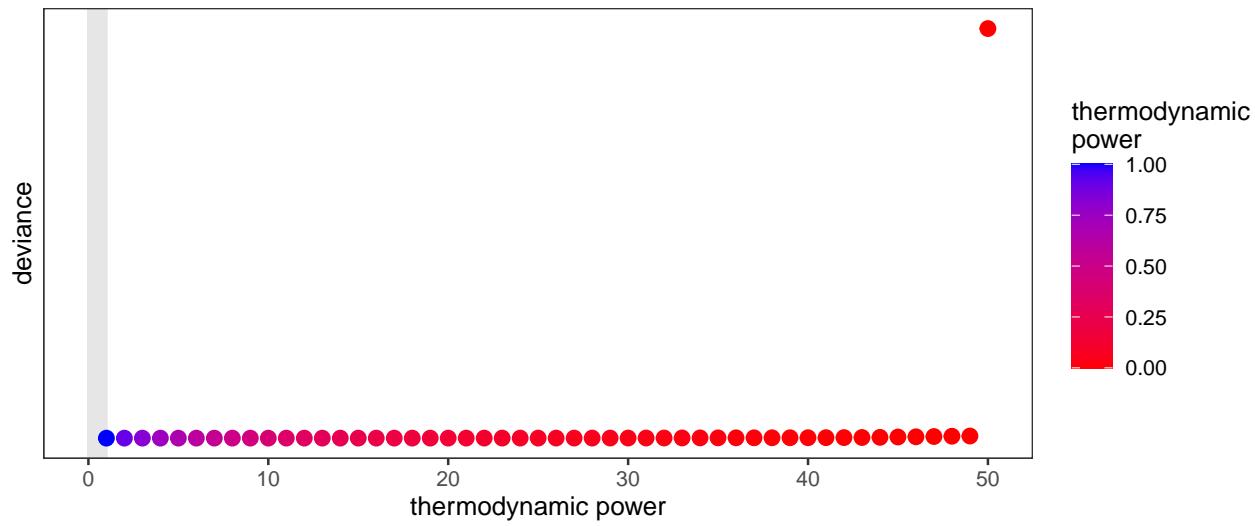
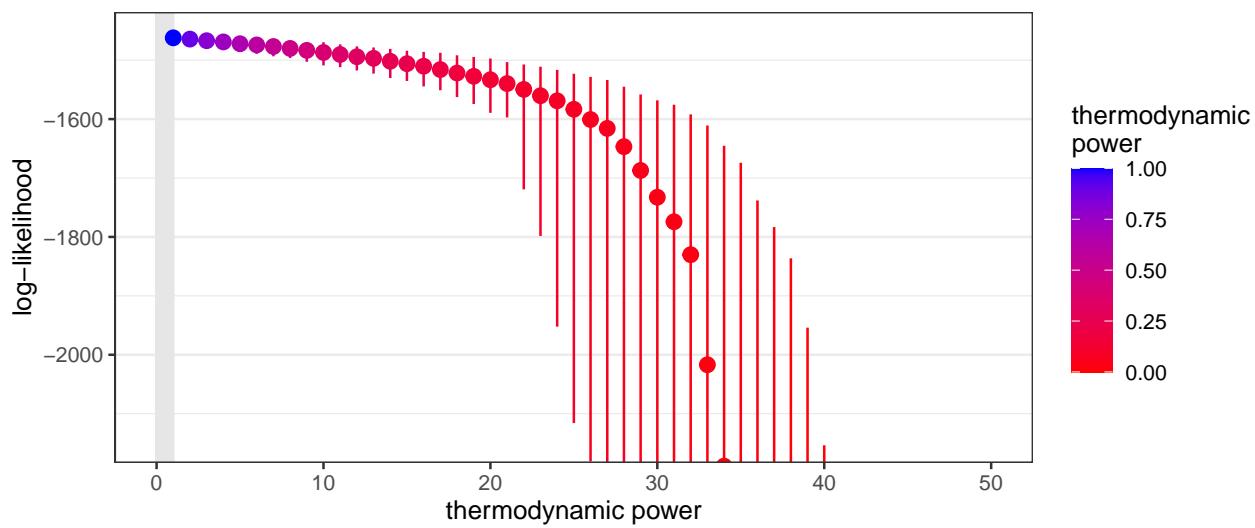
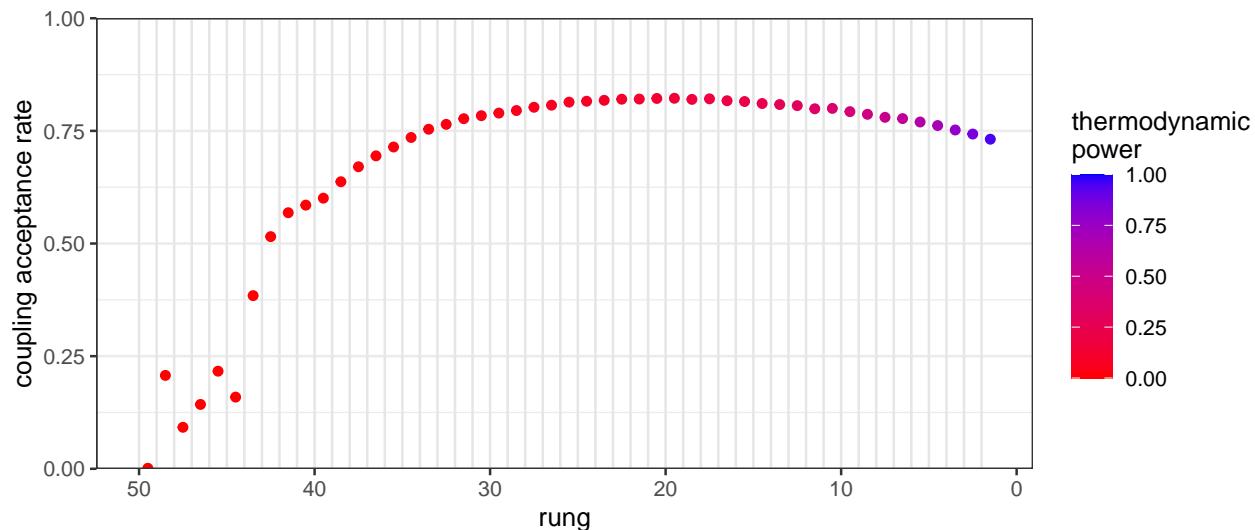
# NYS1 with Care Homes Excluded

## Fit Diagnostics

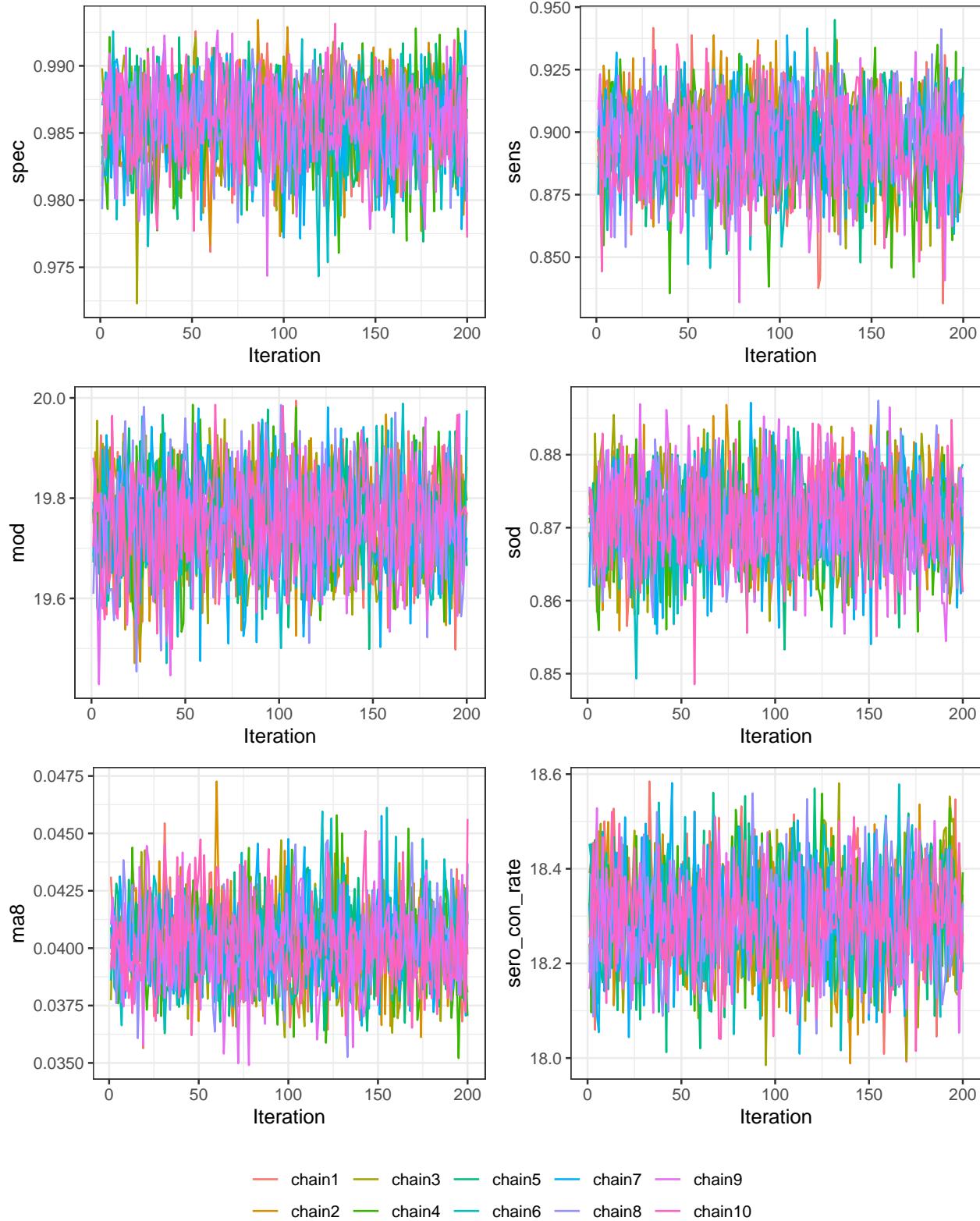
### Log Likelihood & Prior Plot



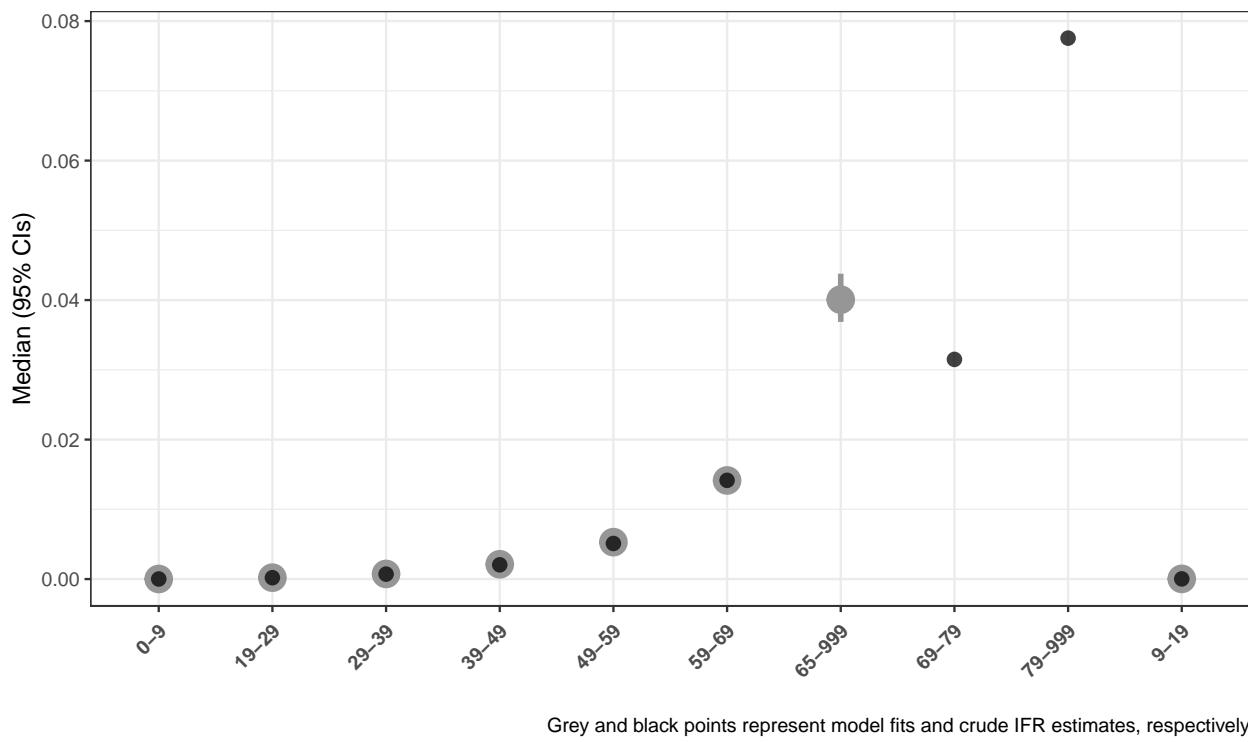
### Metropolis Coupling Acceptance Plot



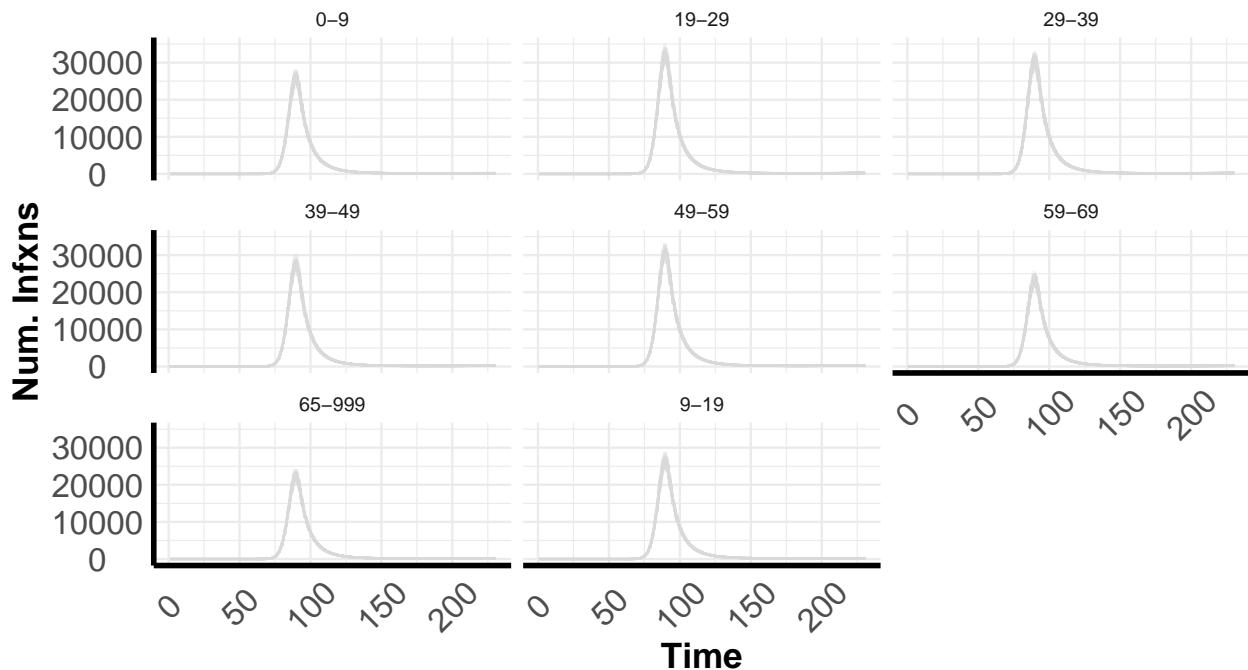
## Serological Diagnostics



## IFRs & Incidence Curve



## Posterior Draws of the Infection Curve



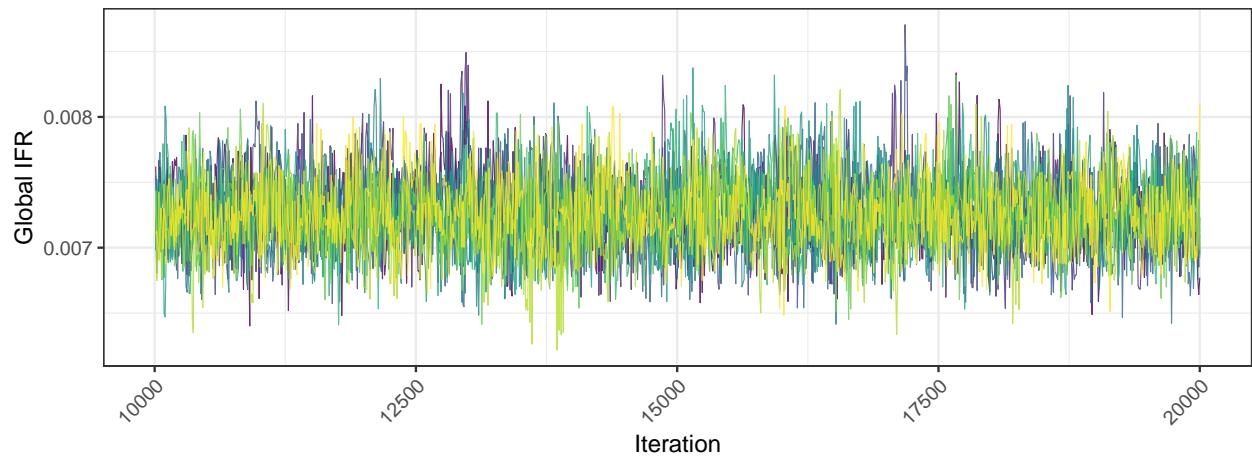
## Strata IFR

strata	param	min	LCI	median	mean	UCI	max	ESS	GewekeZ	GewekeP
0-9	ma1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	10000.000	-0.7566	0.2996
9-19	ma2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001	9576.261	0.7770	0.2950
19-29	ma3	0.0001	0.0002	0.0002	0.0002	0.0002	0.0003	7346.392	0.2075	0.3904
29-39	ma4	0.0006	0.0006	0.0007	0.0007	0.0008	0.0009	5781.830	1.4880	0.1319
39-49	ma5	0.0017	0.0019	0.0021	0.0021	0.0024	0.0026	4935.952	0.9447	0.2553
49-59	ma6	0.0044	0.0048	0.0053	0.0053	0.0058	0.0065	3481.458	1.7165	0.0914
59-69	ma7	0.0120	0.0129	0.0141	0.0142	0.0157	0.0172	2850.728	1.2923	0.1731
65-999	ma8	0.0339	0.0369	0.0401	0.0401	0.0438	0.0486	1966.398	0.4514	0.3603

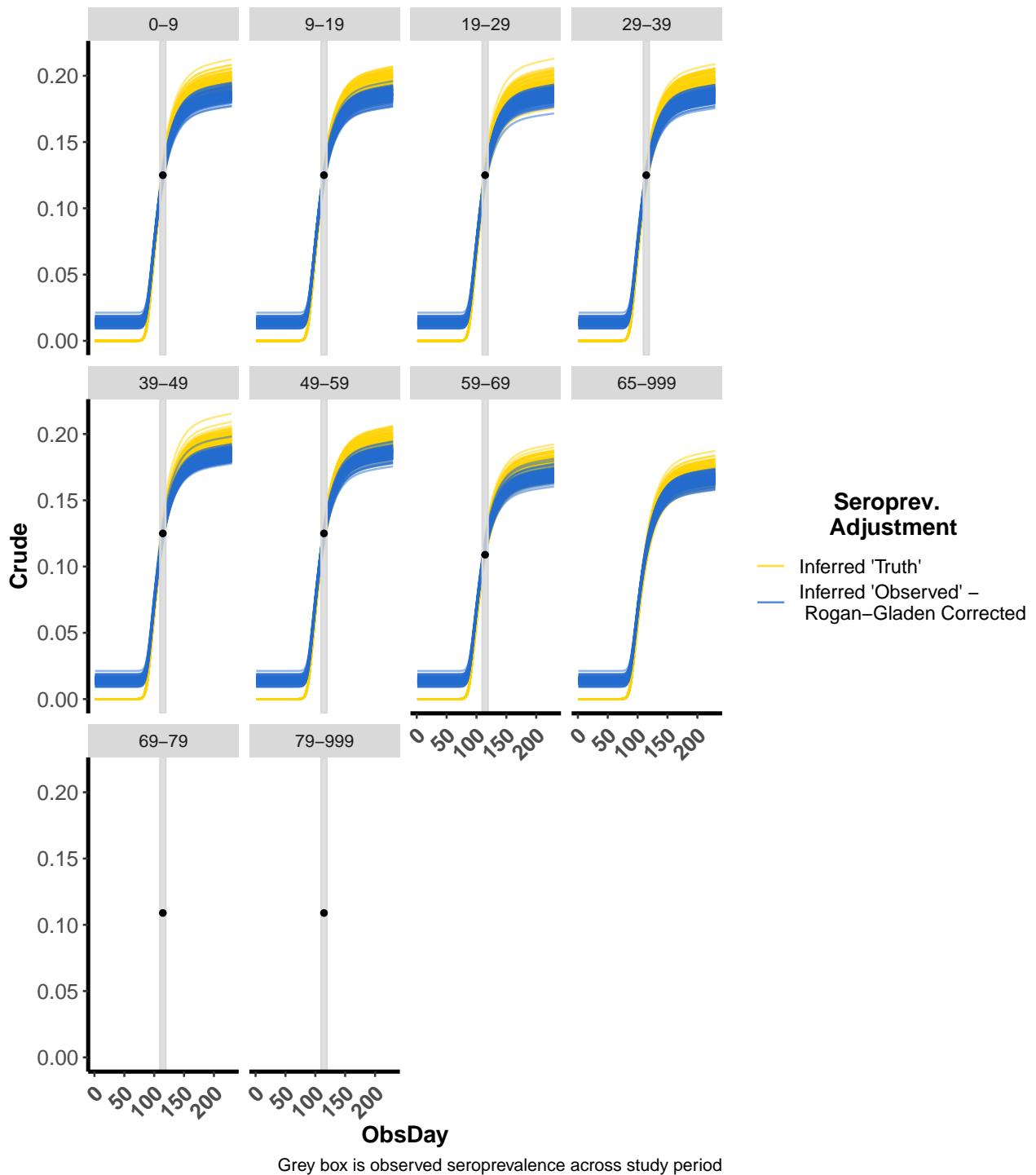
## Overall IFR

min	LCI	median	mean	UCI	max	ESS	GewekeZ	GewekeP
0.0062	0.0067	0.0072	0.0073	0.0079	0.0087	4802.22	-1.7189	0.0911

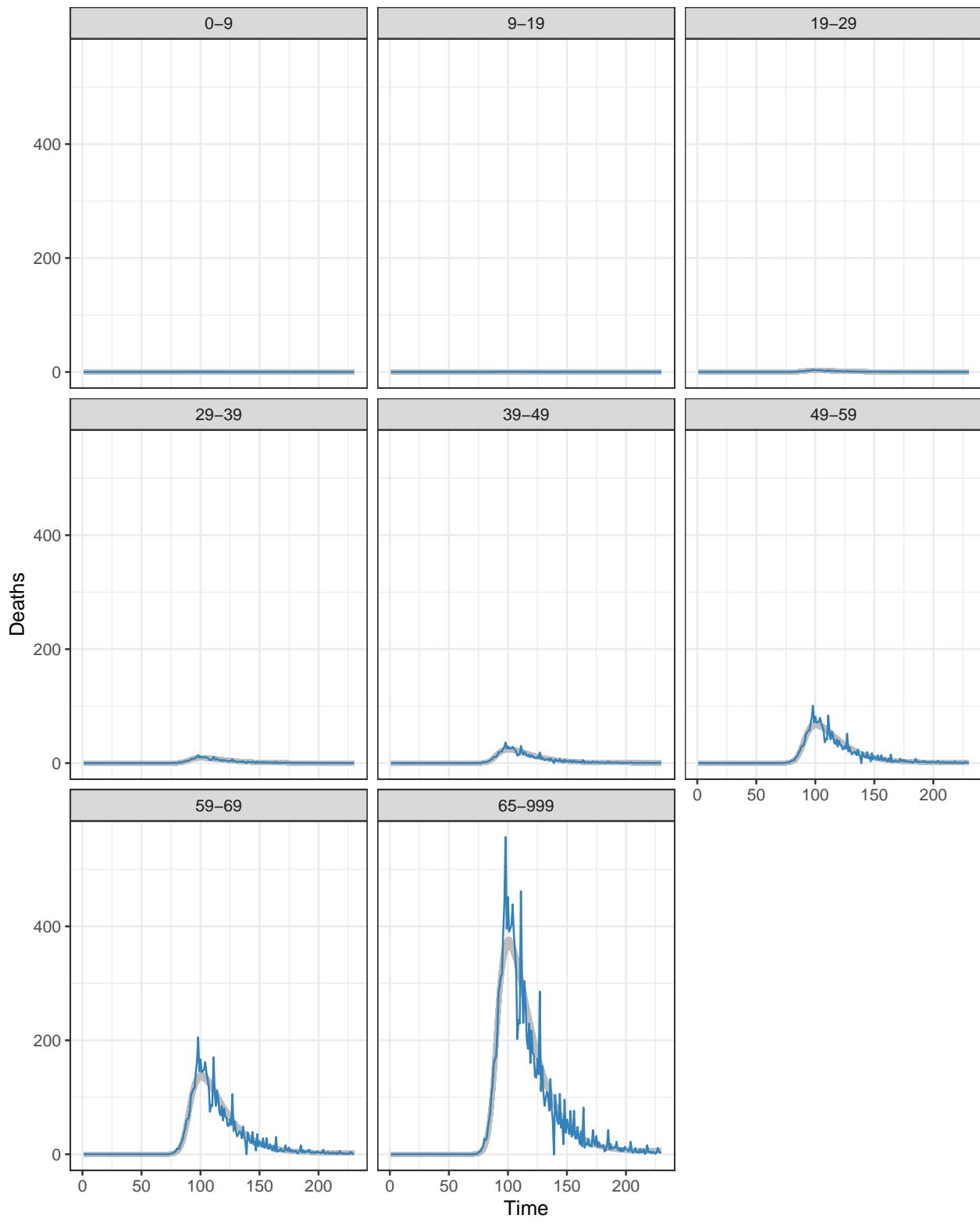
chain	min	LCI	median	mean	UCI	max	ESS	GewekeZ	GewekeP
chain1	0.0064	0.0068	0.0073	0.0073	0.0079	0.0083	286.8653	1.4605	0.1373
chain2	0.0065	0.0068	0.0073	0.0073	0.0079	0.0085	201.7215	-0.0701	0.3980
chain3	0.0065	0.0068	0.0072	0.0072	0.0078	0.0087	370.8726	-1.0089	0.2398
chain4	0.0064	0.0067	0.0072	0.0073	0.0078	0.0081	200.3767	0.6960	0.3131
chain5	0.0064	0.0067	0.0073	0.0073	0.0078	0.0083	301.6467	1.3431	0.1619
chain6	0.0065	0.0067	0.0073	0.0073	0.0079	0.0084	187.2053	-3.2800	0.0018
chain7	0.0064	0.0068	0.0072	0.0072	0.0078	0.0082	316.0741	-0.4377	0.3625
chain8	0.0064	0.0068	0.0072	0.0073	0.0079	0.0083	293.0027	0.2181	0.3896
chain9	0.0062	0.0066	0.0072	0.0072	0.0078	0.0082	256.1763	-2.0864	0.0453
chain10	0.0065	0.0068	0.0072	0.0073	0.0079	0.0081	360.0052	-0.8755	0.2719



### Seroprevalence Observed vs. Inferred True Prev



## Death Posterior Predictive Check



## Additional Parameters

param	min	LCI	median	mean	UCI	max	ESS	GewekeZ	GewekeP
x1	1.3252	1.8660	60.1615	55.2456	69.4739	76.7296	545.2930	0.2697	0.3847
x2	86.2846	89.0619	91.0458	90.9881	92.4531	93.1153	279.6313	0.8481	0.2784
x3	91.5692	92.9720	94.2283	94.2722	95.8549	97.6542	574.0757	0.1137	0.3964
x4	216.0006	216.0373	217.0244	217.5052	221.7369	229.6467	1233.0856	0.2101	0.3902
y1	0.0000	0.0819	1.6230	1.7876	4.4999	6.3373	3269.9268	-1.2378	0.1854
y2	0.0008	0.1010	2.3863	2.6902	6.6250	9.3277	864.1687	-1.5791	0.1147
y3	12.0120	12.1269	12.2422	12.2388	12.3369	12.4152	619.6210	-0.6125	0.3307
y4	11.4907	11.6930	11.8958	11.8895	12.0435	12.1733	599.3219	-0.2817	0.3834
y5	6.9605	7.1460	7.3400	7.3401	7.5323	7.7900	7432.8921	-0.0396	0.3986
Ne1	0.9033	0.9650	1.0250	1.0257	1.0878	1.1399	8815.7789	0.4026	0.3679
Ne2	0.9171	0.9658	1.0252	1.0255	1.0856	1.1352	8041.4897	-1.6784	0.0975
Ne3	0.9161	0.9653	1.0257	1.0259	1.0865	1.1660	8357.3256	-1.3686	0.1564
Ne4	0.9066	0.9670	1.0259	1.0261	1.0879	1.1374	8657.9642	-1.3248	0.1659
Ne5	0.9222	0.9658	1.0259	1.0260	1.0868	1.1428	7729.9451	-0.5283	0.3470
Ne6	0.8928	0.9667	1.0261	1.0260	1.0886	1.1467	7112.1958	-1.7910	0.0802
Ne7	0.8134	0.8634	0.9285	0.9287	0.9942	1.0649	5472.4022	-0.9818	0.2464
Ne8	0.8096	0.8567	0.9119	0.9120	0.9677	1.0578	3664.5445	0.2144	0.3899