

Model-1

	Pertussis	Measles
ω_{pre}	3.39E-01	0.1131
σ	1.7121	1.633
$D_{decrease}$	10	10
MLE	2.07E+12	1.25E+32
GOF	0.2677	0.4839
AICc	-49.0039	-139.6246

Model-2

	Pertussis	Measles
ω_{pre}	2.76E-01	0.1197
σ	1.8896	1.4918
D_{max}	9.5	4.5
MLE	2.80E+16	4.75E+33
GOF	0.5682	0.5951
AICc	-68.0254	-146.9046

Model-3

	Pertussis	Measles
ω_{pre}	2.20E-01	0.1
σ	2.4675	1.6674
D_{max}	6.09917	6.6058
$D_{decrease}$	8.2936	3.6602
MLE	1.27E+18	5.06E+35
GOF	0.6507	0.7034
AICc	-72.2956	-152.4245

Model-4

	Pertussis	Measles
ω_{pre}	0.3197	0.0999
σ	1.9864	1.7289
$D_{increase}$	2.2817	6.6458
D_{max}	4.1091	4.3542
MLE	4.59E+19	2.28E+36
GOF	0.7138	0.7318
AICc	-79.4683	-155.438

Model-5

	Pertussis	Measles
ω_{pre}	0.2269	0.0871
σ	2.8644	2.1803
$D_{increase}$	2.1825	5.6049
D_{max}	2.3175	1
$D_{decrease}$	9.0659	8.4948
MLE	7.46E+40	3.41E+45
GOF	0.981	0.9344
AICc	-177.1496	-197.6877