

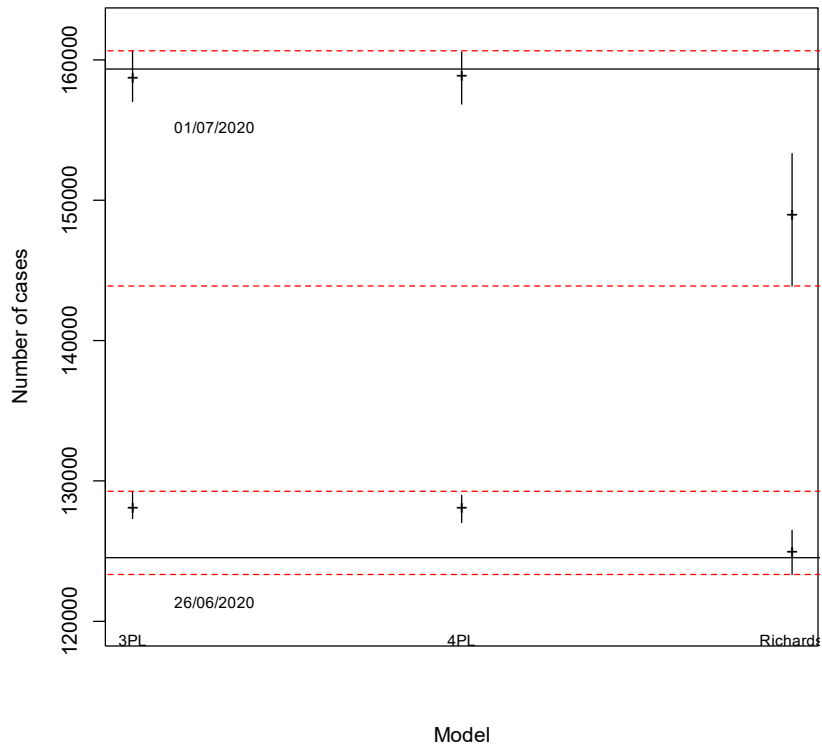
Supplementary information

Table A1: Parameter estimates and Fit criteria for the three models fitted to cumulative COVID-19 cases in South Africa

Parameter	3PL		4PL		Richards	
	Estimate	Standard error	Estimate	Standard error	Estimate	Standard error
alpha	543214	31796	547056	40321	221501	38424
gamma	0.0581	0.0004	0.0581	0.0005	0.1145	0.0206
eta	134.2000	1.3581	134.4000	1.7442	114.7000	3.2539
beta			-10.9285	68.1619		
k					2.0401	0.3804
Fit Criteria						
AIC	557.16		559.15		555.04	

Table A2: Parameter estimates and Fit criteria for the three models fitted to cumulative COVID-19 deaths in South Africa

Parameter	3PL		Gompertz		Richards	
	Estimate	Standard error	Estimate	Standard error	Estimate	Standard error
alpha	4279	168	34567	10480	2298	62
gamma	0.07034	0.000961	0.01499	0.001318	0.208	0.018067
eta	89.39	0.9937	157.38	13.1187	80.04	0.2543
beta			21.4600	5.2200		
k					3.3970	0.3180
Fit Criteria						
AIC	749.4		801.9		675.3	



Supplementary figure 1: Predicted cumulative COVID-19 cases from all models for 26/06/2020 and 01/07/2020. The solid horizontal lines are the observed number of cases (124590 and 159333 for 26/06 and 01/07, respectively). The red dashed lines are the upper and lower uncertainty intervals obtained from all fitted models.