S2 Table. Summary statistics of the marginal posterior distributions for parameters of the full model based on the analysis the Besançon data.

Parameter	Symbol	Median (95% credibility interval)*		
		ICU A	ICU B	ICUs combined
Background coefficient	α	0.011 $(0.008, 0.014)$	0.008 $(0.006, 0.011)$	0.009 $(0.007, 0.011)$
Cross-transmission coefficient	β	0.013 $(0, 0.033)$	0.022 $(0, 0.011)$	0.018 $(0, 0.034)$
Environmental coefficient	ϵ	201.1 $(0.018, 832.829)$	176.7 $(0.009, 811.6)$	209.0 $(0.02, 784.5)$
Decay rate	μ	1415.8 $(65.6, 4273.8)$	1396.9 $(26.4, 3992.2)$	1419.2 $(43.7, 4524.0)$
Sensitivity	$\phi\,(\%)$	50.6 $(48.0, 53.1)$	60.5 $(58.9, 62.1)$	57.6 $(56.2, 58.9)$
Importation probability	$f\,(\%)$	5.5 $(4.5, 6.6)$	7.5 $(6.6, 8.4)$	6.4 $(5.7, 7.2)$
Fraction colonized	$p_{\text{col}}\,(\%)$	22.2 $(21.3, 23.1)$	23.2 $(22.7, 23.6)$	22.4 $(21.9, 22.8)$
Contributions				
Background	$R_{\text{background}}\,(\%)$	62.2 $(44.8, 79.7)$	50.4 $(35.6, 65.2)$	57.6 $(45.5, 67.9)$
Cross-transmission	$R_{\text{crossT}}\,(\%)$	37.2 $(20.4, 54.9)$	49.0 $(34.0, 63.1)$	42.7 $(31.9, 54.0)$
Env. cont. after discharge	$R_{\text{env}}\,(\%)$	0.006 $(0, 0.013)$	0.005 $(0, 0.013)$	0.006 $(0, 0.012)$

*Highest posterior density interval