

Table S4: Estimates of the daily transmission probability (q) from one exposed to one susceptible patient under SA1 and SA2 assumptions

	Phases					All phases	P-value ¹
	1	2	3	4			
SA1 Assumptions							
ICU1	TW MRSA	0.0009(0.0001,0.0068)	0.0042(0.0018,0.0101)	0.0000(0.0000,0.2500)	0.0026(0.0011,0.0063)	0.0022(0.0012,0.0039)	0.01
	Non-TW MRSA	0.0032(0.0025,0.0041)	0.0012(0.0004,0.0038)	0.0029(0.0019,0.0045)	0.0009(0.0005,0.0014)	0.0021(0.0017,0.0026)	
ICU2	TW MRSA	0.0038(0.0021,0.0071)	0.0041(0.0022,0.0076)	0.0041(0.0018,0.0091)	0.0021(0.0011,0.0037)	0.0031(0.0023,0.0043)	0.70
	Non-TW MRSA	0.0035(0.0028,0.0044)	0.0026(0.0011,0.0063)	0.0032(0.0021,0.0050)	0.0014(0.0009,0.0020)	0.0026(0.0022,0.0031)	
Both	TW MRSA	0.0030(0.0017,0.0054)	0.0041(0.0025,0.0068)	0.0025(0.0011,0.0056)	0.0022(0.0013,0.0036)	0.0028(0.0021,0.0038)	< 0.0001
	Non-TW MRSA	0.0033(0.0028,0.0039)	0.0019(0.0009,0.0037)	0.0031(0.0023,0.0042)	0.0011(0.0008,0.0015)	0.0023(0.0021,0.0027)	
P-value ²		0.75	0.06	0.64	0.03	0.24	
SA2 Assumptions							
ICU1	TW MRSA	0.0014(0.0003,0.0069)	0.0047(0.0022,0.0103)	0.0017(0.0004,0.0078)	0.0027(0.0012,0.0062)	0.0022(0.0012,0.0039)	0.15
	Non-TW MRSA	0.0032(0.0025,0.0041)	0.0022(0.0010,0.0051)	0.0032(0.0022,0.0048)	0.0010(0.0006,0.0015)	0.0022(0.0018,0.0026)	
ICU2	TW MRSA	0.0041(0.0023,0.0074)	0.0032(0.0016,0.0064)	0.0045(0.0021,0.0093)	0.0020(0.0011,0.0036)	0.0030(0.0022,0.0042)	0.42
	Non-TW MRSA	0.0033(0.0026,0.0041)	0.0016(0.0005,0.0049)	0.0031(0.0020,0.0049)	0.0012(0.0008,0.0018)	0.0024(0.0020,0.0029)	
Both	TW MRSA	0.0032(0.0018,0.0056)	0.0034(0.0019,0.0058)	0.0032(0.0016,0.0063)	0.0021(0.0013,0.0034)	0.0028(0.0021,0.0037)	< 0.0001
	Non-TW MRSA	0.0032(0.0027,0.0038)	0.0016(0.0008,0.0034)	0.0031(0.0023,0.0041)	0.0011(0.0008,0.0015)	0.0023(0.0020,0.0026)	
P-value ²		1	0.10	1	0.03	0.22	

Estimates of the daily transmission probability (q) from one exposed to one susceptible patient under assumptions SA1 and SA2. See protocol in supporting material for details of the SA1 and SA2 assumptions used in these sensitivity analyses.

1. P-values test the null hypothesis that transmission varies between study phases but not MRSA types against the alternative that it varies between study phases and MRSA types (likelihood ratio test, df=4).

2 P-values test the null hypothesis that transmission in the study phase does not differ between TW and Non-TW MRSA using combined data from both wards (likelihood ratio test, df=1).