

1 **Supplement**

2 Table S1: Distribution of *spa* types among isolates from colonization in 2004/05 and 2010/11

spa-CC	<i>spa</i> types of MRSA isolates 2004/05 (n = 1604) <sup>a</sup>				<i>spa</i> types of MRSA isolates 2010/11 (n = 1603) <sup>a</sup>				OR (95% CI) <sup>b</sup>	p-value <sup>b</sup>
	No. of isolates (%)	Infection	Carriage	Unknown	No. of isolates (%)	Infection	Carriage	Unknown		
spa-CC 003	946 (59.0)	t001, t002, <u>t003</u> , t014, t023, t035, t041, t045, t067,	t001, t002, <u>t003</u> , t010, t014, t023, t035, t041, t045, t045,	t001, t002, <u>t003</u> , t014, t023, t035, t041, t045, t067,	846 (52.8)	t001, t002, <u>t003</u> , t014, t035, t041, t045, t067, t151,	t001, t002, <u>t003</u> , t014, t041, t045, t151, t481, t264,	t001, t002, <u>t003</u> , t014, t045, t105, t264, t481, t504,	0.78 (0.67– 0.9)	0

	t109, t143, t151, t242, t264, t481, t503, t504, t1125	t067, t105, t151, t179, t481, t504, t820, t892, t1009, t1018	t105, t264, t837		t264, t456, t481, t504, t1107, t1227, t1282, t4417, t6860, t7449, t7634, t8358, t8366, t9549	t634, t1107, t1227, t1282, , t1623, t4881, t5856, t7240, t8361, t8366, t8379, t8382, t8988, t9443, t9447, t9450,	t548, t634, t838, t1227, t1623, t1708, t2164, t2516, t3618, t3948, t4417, t4881, t6846, t6860, t7635, t8039,		
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							t9553	t8381, t8384		
spa-CC 004	95 (5.9)	<u>t004</u> , t040, t061, t065, t344, t533, t553, t750, t1017	<u>t004</u> , t029, t040, t065, t553, t911, t1005, t1016	t004, t065	18 (1.1)	t004, t040, t141	t004, t7391	<u>t004</u> , t040, t266, t330	0.18 (0.1– 0.3)	0
spa-CC 008	147 (9.2)	<u>t008</u> , t009, t024, t197, t305,	<u>t008</u> , t009, t024, t051, t063,	<u>t008</u> , t024, t068, t305, t656	97 (6.1)	<u>t008</u> , t024, t063, t068, t967,	<u>t008</u> , t024, t063, t121, t304,	<u>t008</u> , t024, t063, t068, t190,	0.64 (0.48– 0.84)	0.001

		t530	t064, t068, t139, t197, t211, t305			t1617, t1779	t5160	t197, t1627, t4133, t8555		
spa-CC 011	4 (0.3)	-	<u>t011</u> , t108	t011	86 (5.4)	t011, t034, t8377	<u>t011</u> , t034, t108, t1451, t4395	t011, <u>t034</u> , t108, t1451, t2576	22.68 (8.51– 85.49)	0
spa-CC 012	28 (1.8)	t018, t030, <u>t037</u> , t253, t425,	t018, <u>t030</u> , t037	t012, t018, t019, t030, t037,	22 (1.4)	t012, t018, t019, t030, <u>t037</u> ,	t012, t021, t030	t019, t030, t037, t122, t318	0.78 (0.43– 1.43)	0.39

		t532		t459		<u>t318</u>				
spa-CC	304	t020,	t020,	<u>t032</u> ,	431	t020,	t005,	t020,	1.57 (1.33– 1.87)	0
032	(19.0)	t022,	t022,	t294,	(26.9)	t022,	t016,	t022,		
		<u>t032</u> ,	<u>t032</u> ,	t431,		<u>t032</u> ,	t020,	t025,		
		t294,	t290,	t476,		t223,	t022,	<u>t032</u> ,		
		t417,	t431,	t613,		t379,	t032,	t379,		
		t431,	t531,	t749,		t431,	t223,	t531,		
		t432,	t554,	t794,		t432,	t307,	t578,		
		t513,	t578,	t907,		t578,	t541,	t608,		
		t515,	t613,	t1015		t651,	t578,	t670,		
		t613,	t765,			t785,	t646,	t849,		
		t885,	t904,			t790,	t785,	t852,		
		t906,	t907,			t849,	t1015,	t904,		
		t910	t910			t1015,	t1036,	t910,		
						t1302,	t1139,	t1275,		
						t1328,	t1214,	t1499,		

						t1499, t1733, t2251, t2369, t2373, t2518, t3139, t3561, t3721, t4217, t4762, t6014, t6736, t8221, t8363, t8364,	t1275, t2373, t2834, t4184, t4217, t4450, t4582, t5628, t6736, t8359, t8365, t8371, t8374, t8376, t8383, t8557,	t1616, t2231, t2369, t2373, t2477, t2533, t2818, t4217, t4424, t6736, t8367, t8368, t8372, t8380, t8558, t8559,		
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						t8368, t8370, t8373, t8374, t8380, t9169, t9174, t9176, t9177, t9178, t9445, t9550	t9167, t9171, t9175, t9179, t9444, t9548, t9552	t8563, t8832, t9446, t9448, t9551		
spa-CC 127	4 (0.3)	t127	t127, t321	t127	<u>10 (0.6)</u>	t127	t114, t127, t177	-	2.51 (0.72– 10.99)	0.12
spa-CC	1 (0.1)	t148	-	-	<b>4 (0.3)</b>	t791	t148,	t4897	4.01 (0.40–	0.22

148							t4100		197.42)	
spa-CC 186	2 (0.1)	t186, t786	-	-	3 (0.2)	-	t7656	t690, t692	1.5 (0.17– 18.00)	0.69
spa-CC 355/4741	1 (0.1)	t015, t038, t069, t161, t230	t355	-	3 (0.2)	t4741	t355	-	3.01 (0.24– 157.76)	0.38
spa-CC 5397/8556		-	-	-	<u>2 (0.1)</u>	t015, t031, t038, t740	-	t5397, t8556	Inf (0.19– Inf)	0.25
spa-CC 934/044	9 (0.6)	t044, t882	t044	-	8 (0.5)	t044, t203, t934	t044	t044	0.89 (0.30– 2.60)	0.81
spa-CC	32 (2.0)	-	t015,	t015,	20 (1.3)	-	t739,	t015,	0.62 (0.33– 1.12)	0.09



6704			t038, t050, t630, t740	t038, t1008, t556			t950, t5599, t8357	t038, t655, t2469, t6704		
Singletons	8 (0.5)	t358, t471, t843	t007, t160, t512	t007, t091	24 (1.5)	t091, t160, t437, t6257, t657, t7239, t7470	t091, t283, t437, t843, t6548, t8038, t8362, t8375, t8378	t189, t1430, t8554, t8829, t9170, t9172	NA	NA
Excluded	21 (1.3)	t026, t322, t457,	t132, t282, t288,	t132, t362, t535,	<u>20 (1.3)</u>	t026, t457, t458,	t463, t2642, t3050	t027, t463, t535	NA	NA

		t502, t693	t362, <u>t457</u> , t463	t808, t1007, t1011		t463, t535, t586, t1372, t2860				
Others	2 (0.1)	not typeable	-	not typeable	9 (0.6)	not typeable	not typeable	not typeable	NA	NA

3 <sup>a</sup> predominant *spa* types are underlined

4 <sup>b</sup> Comparison of all isolates (infection, carriage, unknown) of the respective *spa*-CC from 2004/05 and 2010/11