**Fig_S1_CC_temporal_prevalence_1193_Rplot.pdf**

**Figure S1.** Prevalence of isolates representing CC5, CC22 and CC30 between 2001 and 2010. Shown as % of *S. aureus* isolates in each year. Error bars show 95% confidence intervals.

**Fig_S2_CC22_CC30_tree.pdf**

**Figure S2 (A, B).** Unrooted maximum likelihood tree of *S. aureus* isolates belonging to CC22 (A) or CC30 (B). Both lineages were composed predominantly of EMRSA isolates; red branches show clades representing the EMRSA-15 (A) and EMRSA-16 (B) clones.

**Fig_S3_MGE_root_divergence_trim_aln_Rplot.pdf**

**Figure S3.** Relationship between the probability of MGE carriage and the root-to-tip distance in MRSACC22 isolates. Curve based on prediction from logistic regression model.

**Fig_S4_antiotibiotic_usage.pdf**

**Figure S4.** Annual macrolide prescription items in England between 2001 and 2010. A prescription item refers to a single item prescribed on a prescription form. Copyright NHSBSA 2013. This information is licenced under the terms of the Open Government Licence: http://www.nationalarchives.gov.uk/doc/opengovernment-licence/version/3

Fig_S5_ery_resistance_P40_carriage_Rplot.pdf

**Figure S5.** Prevalence of P1-*ermC* carriage and erythromycin resistance in MRSA CC22 isolates between 2001 and 2010. Shown as % of MRSA CC22 isolates in each year.

**Fig_S6_CC22_pariwise_snps_distance_per_year_trim_aln_Rplot.pdf**

**Figure S6.** Median of pairwise SNP distances between MRSA CC22 isolates each year between 2001 and 2010.