Appendix Table F12. Health care-associated MRSA colonization or infection: studies that did not use statistical methods to attempt to control for confounding or secular trends

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Author,**  **Year,**  **Country** | **MRSA Strategy** | **Control** | **Intervention** | **p value** | **Diff (I-C)** | **Statistical Test** | **Multivariate Analysis** |
| de la Cal et al., 2004,22 Spain | Screening of ICU Risk Pts Vs No Screening | Intervention 1: 31/100 patients  14.82/1000 patient-days  Intervention 2: 31/100 patients  14.82/1000 patient-days | Intervention 1: 14/100 patients  7.92/1000 patient days  Intervention 2: 2/100 patients  1.30 per 1000 patient days | p<0.01, p<0.006  p<0.001,  p<0.001 |  | Chi square, Fisher exact test |  |
| Salaripour et al., 2006,36 Canada | Screening of High Risk Pts Vs No Screening | 0.61 per 1000 patient days | 0.43 per 1000 patient days | Rates each year from 2001-2005 were significantly lower than the target (p<0.01) and significantly lower than the internal benchmark rate of 0.61 in 2000 (p<0.001). |  |  |  |
| Eveillard et al., 2006,24 France | Expanded Vs Limited Screening | 1.13 per 1000 patient days | 0.14 per 1000 patient days |  | RR= 8.1 (95% CI 1.06-64.5) p<0.02 | Chi square or Fisher's exact test |  |
| Thompson et al., 2009,44 UK | Expanded Vs Limited Screening | 19.6 Per 1000 bed-days (95% CI 16.5-22.7) | 11.8 per 1000 bed-days (95% CI 7.3-16.3) |  | Rates of acquisition of MRSA from the fifth day in ICU in those initially negative comparing intervention to control chi-square p=.016 | Chi-square |  |
| Trautmann et al., 2007,45 Germany | Expanded Vs Limited Screening | MICU (incidence density per 1000 patient days)  12.2  MICU (incidence density per 1000 patient days)  5.8 | SICU (incidence density Per 1000 patient days)  8.3 (2005)  7.5 (2006)  MICU (incidence density Per 1000 patient days)  3.3 (2005)  1.7 (2006) |  | P<0.05  P<0.05 | Chi-square |  |
| Girou et al., 2000,25 France | Expanded Vs Limited Screening | 2.9% | 2.4% |  | P=0.68 | Chi-square, Fisher’s exact test or ANOVA |  |
| Schelenz et al., 2005,38 UK | Expanded Vs Limited Screening | 4.0% | 1.5% |  | RR=2.41 (95% CI: 1.32-4.42) p=0.003 | Relative risk, chi square |  |

C: Control; CI: Confidence interval; Diff: Difference; I: Intervention; ICU: Intensive care unit; MICU: Medical care intensive unit; MRSA: Methicillin-resistant *Staphylococcus aureus;* N: No; RR: Relative risk; SICU: Surgical care intensive unit