**Supplemental Material:**

**Tables:**

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| Table 1: Poisson regression for the effect of season on deep surgical site infection rates over time. |
|  | All procedures (n=116 months) |
| Year | 0.91 (0.87, 0.95)\*\* |
| Season |  |
| Summer (ref) | --- |
| Fall | 0.66 (0.43, 1.02) |
| Winter | 0.62 (0.41, 0.95)\* |
| Spring | 1.14 (0.78, 1.68) |
| Season Year Interaction |  |
| Summer (ref) | --- |
| Fall | 1.07 (0.99, 1.14) |
| Winter | 1.08 (1.02, 1.16)\* |
| Spring | 0.99 (0.93, 1.05) |
| \* p-value < 0.05, \*\* p-value < 0.01 |

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| Table 2: Poisson regression for the effect of month on deep surgical site infection rates. |
|  | All procedures (n=116 months) |
| Month |  |
| July (ref) | --- |
| January | 1.04 (0.76, 1.42) |
| February | 1.25 (0.93, 1.70) |
| March | 1.02 (0.75, 1.40) |
| April | 1.34 (0.99, 1.81) |
| May | 1.27 (0.94, 1.71) |
| June | 1.10 (0.81, 1.49) |
| August | 1.25 (0.92, 1.68) |
| September | 1.07 (0.78, 1.47) |
| October | 0.90 (0.65, 1.25) |
| November | 1.11 (0.81, 1.53) |
| December | 1.06 (0.77, 1.47) |
| Years |  |
| 2009 (ref) | --- |
| 2010 | 0.76 (0.56, 1.03) |
| 2011 | 0.84 (0.63, 1.13) |
| 2012 | 0.59 (0.42, 0.83)\*\* |
| 2013 | 0.55 (0.42, 0.73)\*\* |
| 2014 | 0.64 (0.49, 0.84)\*\* |
| 2015 | 0.48 (0.36, 0.63)\*\* |
| 2016 | 0.82 (0.63, 1.08) |
| 2017 | 0.53 (0.40, 0.69)\*\* |
| 2018 | 0.39 (0.29, 0.54)\*\* |
| \* p-value < 0.05, \*\* p-value < 0.01 |