Novaerus Study Summary Report

Overview

Naaman's Creek Country Manor (NCCM), a 90-bed two-storied SNF implemented Novaerus technology in March 2014. This technology controls airborne infections by eradicating viruses, bacteria, mold, and allergens as well as harmful contaminants such as MRSA, C-Diff, Norovirus and influenza. This study (which is not a clinical study) compares the nosocomial (facility acquired) infection rates related to respiratory and C. Diff. etiologies before and after the implementation of Novaerus technology.

Methodology

A 28-month review was performed on NCCM to evaluate the results that the CEO stated that his facility had benefitted from. A Nurse Risk Manager Consultant visited the facility for two days to pull the facility information and to review the following data:

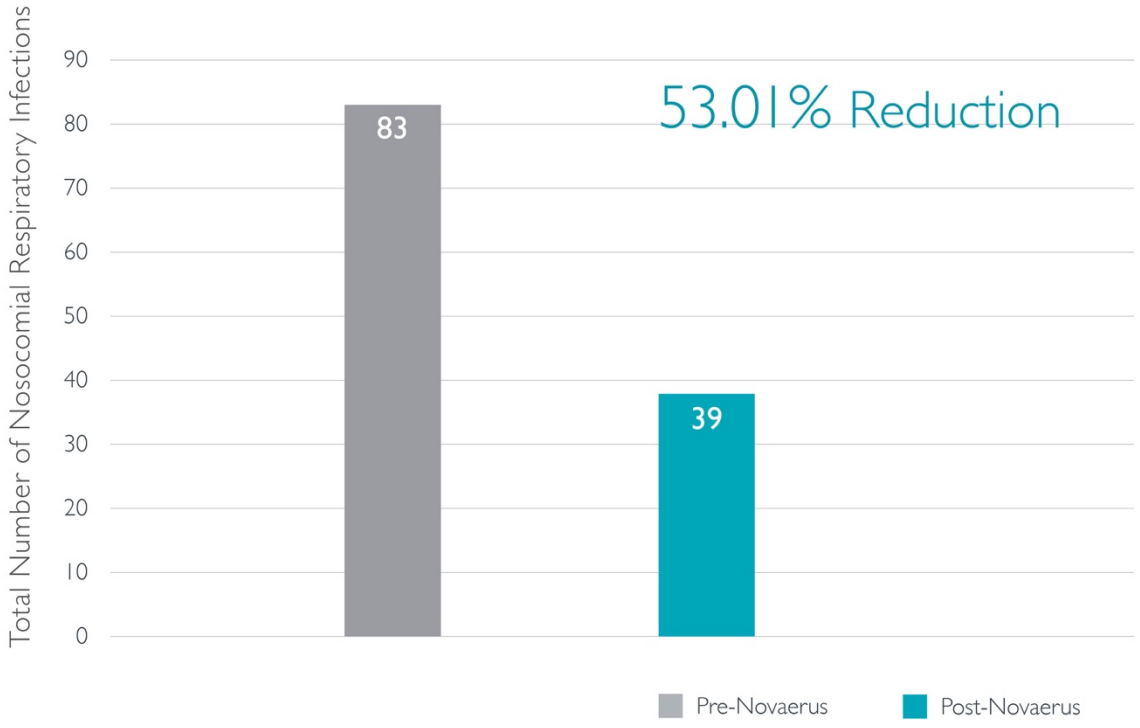
- Admission, transfer, and discharge data for all residents,
- Monthly infection control records, reports, and surveillance,
- Individual resident infection control examination results (x-rays, cultures, etc.), and
- A map of the facility, which displays selected areas where the Novaerus system implemented.

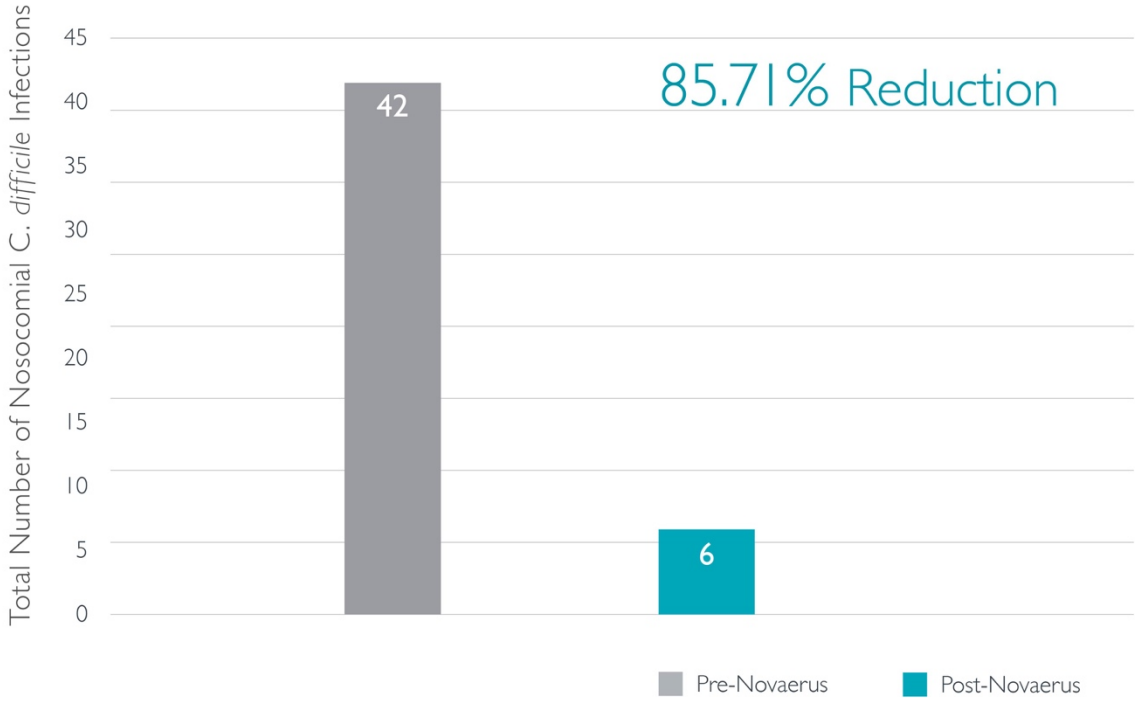
The period selected for this study compares the April 2013 thru February 2014 timeframes (prior to Novaerus implementation) and April 2014 thru February 2015 period after implementation. Comparison of like periods pre and post implementation reduces the risk of skewed data related to seasonal variances that might occur with infection rates. This study tallies and compares the nosocomial infection occurrences related to respiratory and C. Diff. etiologies pre and post implementation of the Novaerus technology.

Conclusion

Prior to implementation of Novaerus technology the facility sum total of nosocomial infections related to respiratory etiologies (NRI) tallied 83. In the period after Novaerus implementation the facility sum total of nosocomial infections related to respiratory etiologies tallied 39, **which is a decline of 53.01%.** Additionally, when reviewing nosocomial infections related to C. Diff. etiologies (NCD) the sum total of infections prior to Novaerus implementation tallied 42. After Novaerus implementation the sum total of nosocomial infections with C. Diff. etiologies tallied six, **which is a decline of 85.71%.**

Clearly, implementation of the Novaerus technology has contributed significantly to the infection control as well as quality improvement efforts at NGCM. The attached graph illustrates this comparison.


Total Number of Nosocomial Respiratory Infections
90
80
70
60
50
40
30
20
10
0
83
39
53.01% Reduction
Pre-Novaerus
Post-Novaerus


Total Number of Nosocomial C. difficile Infections
45
40
35
30
25
20
15
10
5
0
42
6
85.71% Reduction
Pre-Novaerus
Post-Novaerus