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| **Supplementary Figure 1: Cdiff32 Questionnaire with Mean Scores** | | | | |
| Domain | Question | Question | Mean | Garey 201625 |
| Physical | 1\* | Have you had any difficulties and/or disruption carrying out your daily activities? | 45.25 | 50.8 |
| Physical | 2\* | Have you had any difficulties carrying out your leisure activities like gardening, walking, etc? | 45.75 | 50.3 |
| Physical | 3\* | Has it taken you longer to perform certain tasks at work (including work in the home)? | 45 | 51.3 |
| Physical | 4\* | Has your C. diff infection prevented you from leaving your house? | 42 | 39 |
| Physical | 9 | Are you afraid that certain food will worsen your C. diff infection? | 70 | 54.8 |
| Physical | 10 | Have you felt frustrated about what you can eat and when? | 70.25 | 54.3 |
| Physical | 11 | Because of your C. diff infection, have you had trouble sleeping? | 54.25 | 45.7 |
| Physical | 12 | Because of your C. diff infection have you been woken up from sleep? | 54 | 44.4 |
| Physical | 13 | Have you been bothered by abdominal pain? | 44.25 | 40.8 |
| Physical | 14 | Have you been bothered by flatulence (wind)? | 59.25 | 50.8 |
| Physical | 15 | Have you been bothered by a bloated stomach? | 55.75 | 55.1 |
| Physical | 16\* | Have you avoided wearing some clothes (tight clothes, dress, light-colored clothes ...)? | 46.75 | 56.9 |
| Physical | 17 | Have you been bothered by the smell caused by your C. diff infection related diarrhea? | 49 | 53.1 |
| Physical | 18 | Have you been bothered by how much time you spend on the toilet? | 39.75 | 49.7 |
| Mental | 5 | Are you afraid that your C. diff infection could come back again? | 43.25 | 75.3 |
| Mental | 6 | Are you afraid that your C. diff infection could get worse in the future? | 47 | 71.4 |
| Mental | 7 | Are you afraid that the next time you'll need antibiotics, your C. diff infection will appear again? | 40 | 81.4 |
| Mental | 8 | Have you been worried about not knowing when the next diarrhea would arise? | 44.75 | 59.2 |
| Mental | 19 | Despite my C diff infection I can live a normal life. | 53 | 56.1 |
| Mental | 20 | I feel that I am not in control of my C. diff infection. | 41 | 61.7 |
| Mental | 21 | I have no idea what I should do when I have my C. Diff infection? | 50.5 | 40.1 |
| Mental | 22 | I believe that any stress can worsen my C. diff infection. | 51 | 56.6 |
| Mental | 23 | I feel irritable because of my C. diff infection. | 39.25 | 59.2 |
| Mental | 24 | I feel isolated from others because of my C. diff infection. | 36 | 64.8 |
| Mental | 25 | I feel depressed because of my C. diff infection | 62 | 62.8 |
| Mental | 26 | I feel my life is less enjoyable because of my C. diff infection. | 37.25 | 68.1 |
| Mental | 27 | I worry about transmitting my C. diff infection to my family and/or friends. | 27.5 | 65.8 |
| Mental | 28 | I feel much stressed because of my C. diff infection. | 49 | 66.6 |
| Social | 29 | Because of my C. diff infection, I have difficulty being around people I do not know. | 57.75 | 43.1 |
| Social | 30 | My C. diff infection is affecting my closest relationships. | 63 | 45.2 |
| Social | 31 | I feel like I irritate others because of my C. diff infection. | 52.75 | 61.7 |
| N/A | 32 | How would you rate your overall quality of life during the past week? | 41.75 | N/A |
| \*For questions that did not apply to the inpatient setting, patients were asked to imagine if they were at home. | | | | |

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| **Supplementary Figure 2: SHEA/IDSA recommended criteria for classification of CDI severity** | |
| Clinical definition | Supportive criteria |
| Non-severe | WBC <15,000 cells/mm3 and SCr <1.5 mg/dL |
| Severe | WBC ≥15,000 cells/mm3 or SCr ≥1.5 mg/dL |
| Fulminant | Criteria for severe *plus* hypotension, shock, ileus, or toxic megacolon |
| SCr = serum creatinine; WBC = white blood cells | |

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| **Supplementary Table 1 : Bivariate Analysis of Cdiff32 Scores on Categorical Variables** | | | | |
|  | Variable | n | Mean | p-value |
|  | Gender |  |  | 0.45 |
|  | Female | 47 | 47.46 |  |
|  | Male | 53 | 49.78 |  |
|  | Race |  |  | 0.64 |
|  | White | 87 | 48.75 |  |
|  | Black | 9 | 52.17 |  |
|  | Marriage Status |  |  | 0.16 |
|  | Married | 57 | 50.45 |  |
|  | Single | 29 | 45.72 |  |
|  | Source of admission |  |  | 0.67 |
|  | ED | 46 | 50.32 |  |
|  | Direct admit | 45 | 48.98 |  |
|  | CDI testing |  |  | 0.86 |
|  | PCR positive/EIA positive | 49 | 48.41 |  |
|  | PCR positive/EIA negative | 51 | 48.96 |  |
|  | CDI severity |  |  | 0.021 |
|  | Non-severe | 44 | 52.97 |  |
|  | Severe | 50 | 46.19 | 0.030 |
|  | Fulminant | 6 | 38.15 | 0.024 |
|  | ICU stay during admission |  |  | 0.59 |
|  | Yes | 30 | 47.47 |  |
|  | No | 70 | 49.2 |  |
|  | CDI recurrence |  |  | 0.042 |
|  | Primary CDI | 86 | 49.99 |  |
|  | Recurrent CDI | 14 | 40.68 |  |
|  | Cancer |  |  | 0.54 |
|  | Yes | 39 | 50.77 |  |
|  | No | 61 | 48.43 |  |
|  | Immunosuppressants/Chemotherapy |  |  | 0.1 |
|  | Yes | 51 | 51.13 |  |
|  | No | 49 | 46.14 |  |
|  | IBD |  |  | 0.46 |
|  | Yes | 16 | 46.29 |  |
|  | No | 84 | 49.14 |  |
|  | Prior Hospitalization in past 90 days |  |  | 0.99 |
|  | Yes | 78 | 48.65 |  |
|  | No | 17 | 48.71 |  |
|  | P-values for two-sample t-test; ED, emergency department; CDI, *C. difficile* infection; EIA, enzyme immunoassay; ICU, intensive care unit; IBD, inflammatory bowel disease. | | | |

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| **Supplementary Table 2: Simple Linear Regression of Cdiff32 Scores on Continuous Variables** | | |
| Variable | Parameter Estimate | p-value |
| Age (years) | -0.015 | 0.87 |
| BMI (kg/m2) | 0.45 | 0.056 |
| Estimated household income (USD) | 0.00015 | 0.099 |
| Days since admission | -0.021 | 0.81 |
| Days since CDI diagnosis | -0.11 | 0.8 |
| Number of stools past 24 hours | -1.54 | **0.0018** |
| Charlson Comorbidity Index | 0.12 | 0.84 |
| BMI, body mass index; USD, United States Dollars; CDI, *C. difficile* infection. | | |

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| **Supplementary Table 3: R Packages Used** | | |
| Package Name | Version | Maintainer |
| pacman | 0.5.1 | Tyler Rinker <tyler.rinker@gmail.com> |
| rockchalk | 1.8.144 | Paul E. Johnson <pauljohn@ku.edu> |
| jtools | 2.0.3 | Jacob A. Long <long.1377@osu.edu> |
| interactions | 1.1.1 | Jacob A. Long <long.1377@osu.edu> |
| plotrix | 3.7.7 | Jim Lemon <drjimlemon@gmail.com> |
| sjmisc | 2.8.4 | Daniel Lüdecke <d.luedecke@uke.de> |
| ggpubr | 0.2.5 | Alboukadel Kassambara <alboukadel.kassambara@gmail.com> | |
| magrittr | 1.5 | Stefan Milton Bache <stefan@stefanbache.dk> |
| cocron | 1.0.1 | Birk Diedenhofen <mail@birkdiedenhofen.de> |
| table1 | 1.1 | Benjamin Rich <mail@benjaminrich.net> |
| MASS | 7.3.51.5 | Brian Ripley <ripley@stats.ox.ac.uk> |
| ggfortify | 0.4.9 | Yuan Tang <terrytangyuan@gmail.com> |
| DataCombine | 0.2.21 | Christopher Gandrud <christopher.gandrud@gmail.com> |
| pROC | 1.16.2 | Xavier Robin <pROC-cran@xavier.robin.name> |
| caret | 6.0.86 | Max Kuhn <mxkuhn@gmail.com> |
| lattice | 0.20.38 | Deepayan Sarkar <deepayan.sarkar@r-project.org> |
| oddsratio | 2.0.0 | Patrick Schratz <patrick.schratz@gmail.com> |
| questionr | 0.7.0 | Julien Barnier <julien.barnier@ens-lyon.fr> |
| ResourceSelection | 0.3.5 | Peter Solymos <solymos@ualberta.ca> |
| xlsx | 0.6.3 | Cole Arendt <cole.arendt@outlook.com> |
| car | 3.0.7 | John Fox <jfox@mcmaster.ca> |
| carData | 3.0.3 | John Fox <jfox@mcmaster.ca> |
| tableone | 0.10.0 | Kazuki Yoshida <kazukiyoshida@mail.harvard.edu> |
| broom | 0.5.5 | Alex Hayes <alexpghayes@gmail.com> |
| forcats | 0.5.0 | Hadley Wickham <hadley@rstudio.com> |
| stringr | 1.4.0 | Hadley Wickham <hadley@rstudio.com> |
| dplyr | 0.8.5 | Hadley Wickham <hadley@rstudio.com> |
| purrr | 0.3.3 | Lionel Henry <lionel@rstudio.com> |
| readr | 1.3.1 | Jim Hester <james.hester@rstudio.com> |
| tidyr | 1.0.2 | Hadley Wickham <hadley@rstudio.com> |
| tibble | 2.1.3 | Kirill Müller <krlmlr+r@mailbox.org> |
| ggplot2 | 3.3.0 | Hadley Wickham <hadley@rstudio.com> |
| tidyverse | 1.3.0 | Hadley Wickham <hadley@rstudio.com> |