

# Monthly EASIL Report: Nursing Home A

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## Executive Summary:

Antibiotic starts at Nursing Home A (new starts) decreased through quarter 4 of 2020, before seeing an increase in January of 2021. The number of new starts decreased through the rest of Quarter 1(Figure 1). Urinary tract infections, lower respiratory infections, and skin soft tissue infections tend to be the major infections sites for which antibiotics are prescribed. UTI starts remain stable, but LRI starts are up (Figure 2). Quarterly days of therapy for UTI's per 1000 resident days have been stable, at 0.93. LRI starts per 1,000 pt days have increased a bit to 1.09 (Figure 3). Quinolone use has continued to be good (Table 1). SBAR and Loeb's criteria utilization for UTI has been very good (Table 2). Levofloxacin prescriptions were all above the recommended duration (Table 5).

## Potential action item(s):

1. Monitor LRI starts in quarter 2 of 2021.
2. Consider speaking to prescribers about the duration of Levofloxacin prescriptions, and confirm that the duration of these are appropriate.

## Antibiotic Starts

Figure 1. Total antibiotic starts by order type (Nursing Home A, January 2019-February 2020)

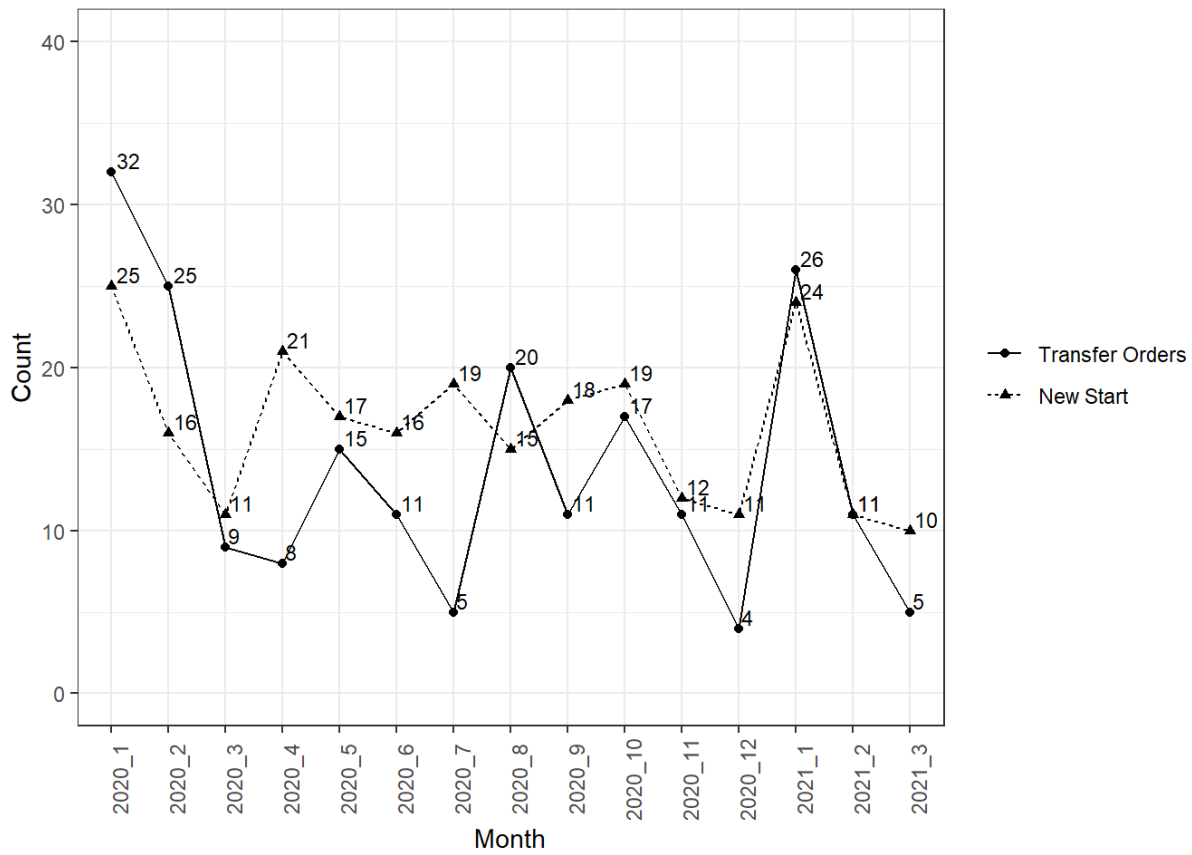


Figure 2. New antibiotic starts by site code (Nursing Home A, January 2019-February 2020)

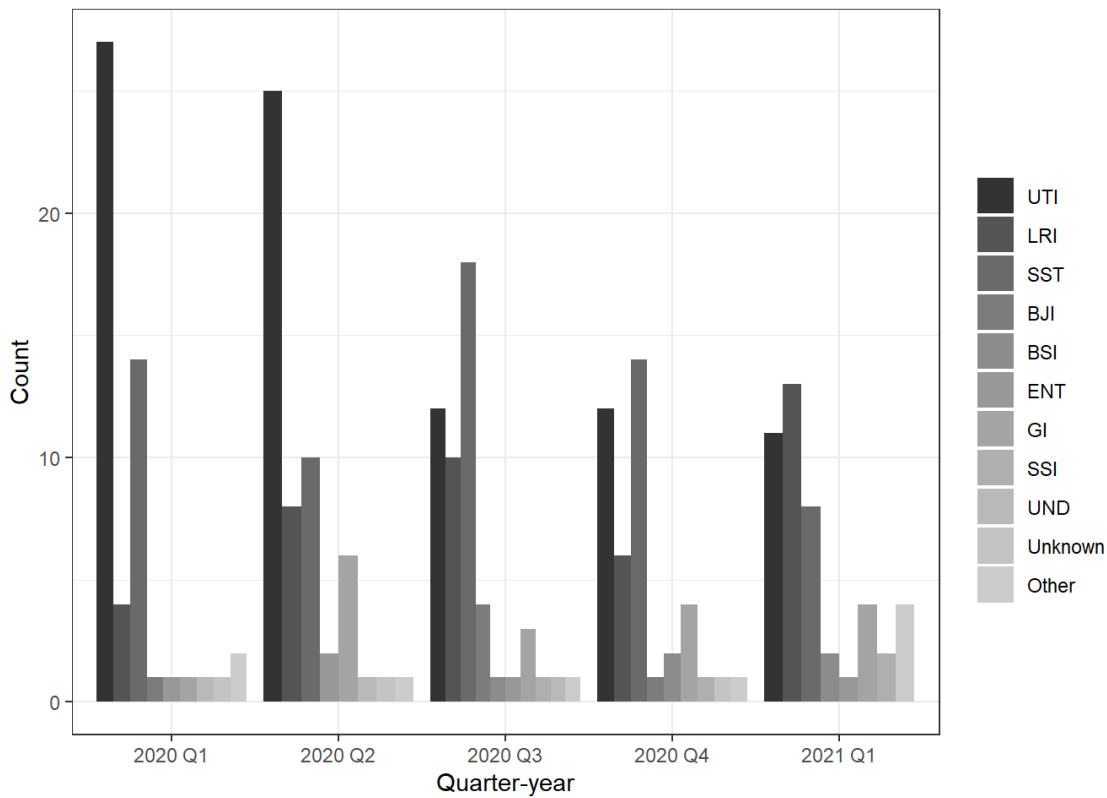
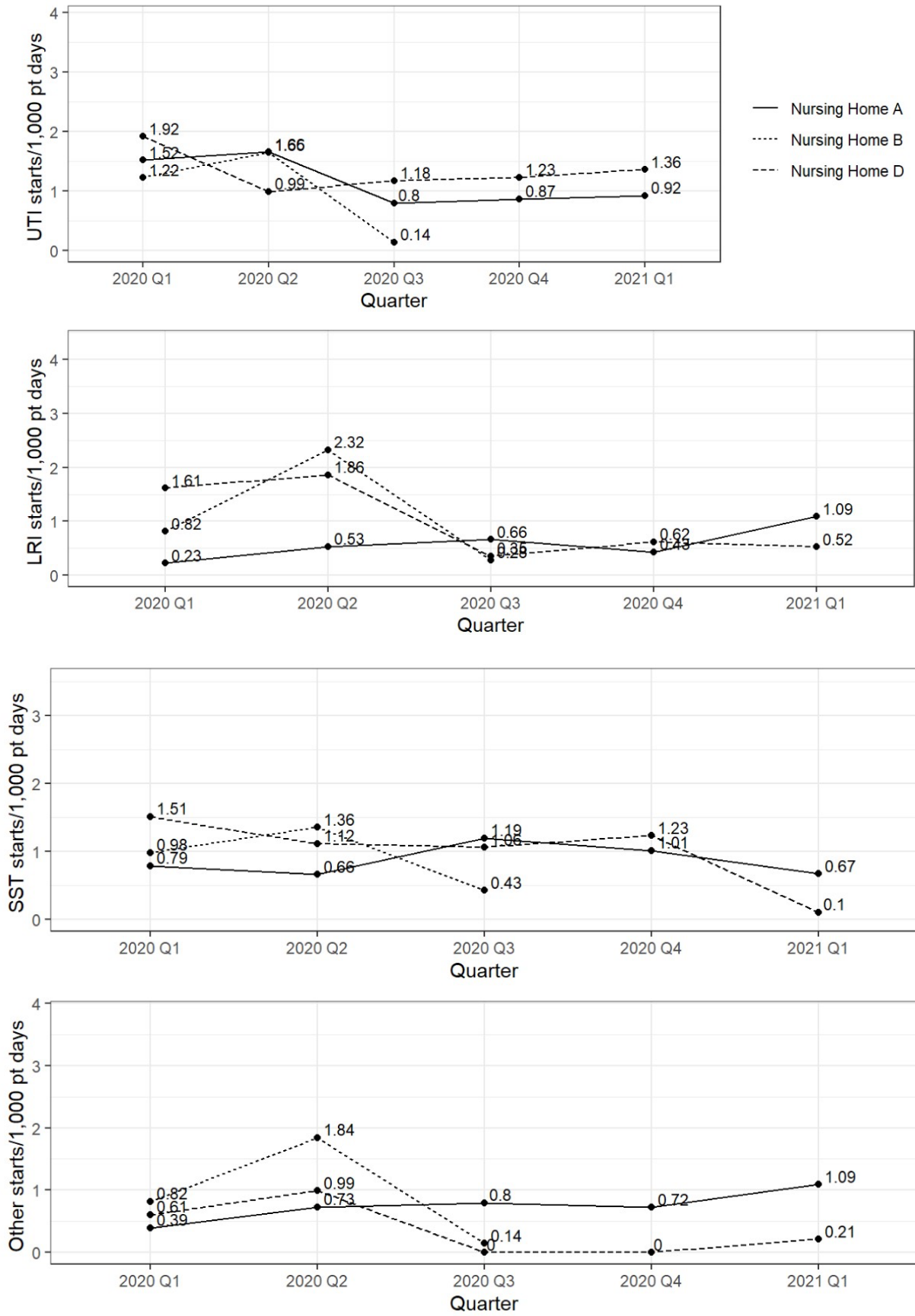






Figure 3. Number of new starts per 1,000 patient days by treatment site (All Facilities, January 2019 - February 2020)



## Antibiotic Days of Therapy

Table 5. Days of therapy for UTI by antibiotic code (Nursing Home A, Q1 2019- Q4 2019, then Q1 2020)

| simp.site | abxnm   | Mean      | Median | Minimum | Maximum | Pct_ov_rec | n  |
|-----------|---------|-----------|--------|---------|---------|------------|----|
| UTI       | CEPHLX  | 4.590909  | 5      | 3       | 7       | 4.545454   | 22 |
| UTI       | NITRO   | 5.150000  | 5      | 2       | 14      | 5.000000   | 20 |
| UTI       | CEFTRX  | 4.333333  | 5      | 3       | 5       | NaN        | 6  |
| UTI       | CEFDIN  | 5.666667  | 5      | 5       | 7       | NaN        | 3  |
| UTI       | DOXY    | 5.000000  | 5      | 5       | 5       | 0.000000   | 2  |
| UTI       | SULFAET | 3.000000  | 3      | 3       | 3       | 0.000000   | 2  |
| UTI       | AMOXWC  | 5.000000  | 5      | 5       | 5       | 0.000000   | 1  |
| UTI       | LEVO    | 7.000000  | 7      | 7       | 7       | 100.000000 | 1  |
| UTI       | LNZ     | 5.000000  | 5      | 5       | 5       | NaN        | 1  |
| UTI       | NAF     | 5.000000  | 5      | 5       | 5       | NaN        | 1  |
| UTI       | OTHER   | 7.000000  | 7      | 7       | 7       | NaN        | 1  |
| UTI       | CEPHLX  | 3.727273  | 3      | 1       | 5       | 0          | 11 |
| UTI       | CEFTRX  | 3.142857  | 3      | 1       | 5       | NaN        | 7  |
| UTI       | NITRO   | 4.600000  | 5      | 3       | 5       | 0          | 5  |
| UTI       | AMP     | 1.000000  | 1      | 1       | 1       | NaN        | 1  |
| UTI       | CEFDIN  | 5.000000  | 5      | 5       | 5       | NaN        | 1  |
| UTI       | DOXY    | 10.000000 | 10     | 10      | 10      | 100        | 1  |
| UTI       | SULFAET | 3.000000  | 3      | 3       | 3       | 0          | 1  |

Table 6. Days of therapy for LRI by antibiotic code (Nursing Home A, January 2019- February 2020)

| simp.site | abxnm  | Mean     | Median | Minimum | Maximum | n  |
|-----------|--------|----------|--------|---------|---------|----|
| LRI       | CEFTRX | 4.315790 | 5.0    | 1       | 7       | 19 |
| LRI       | AMOXWC | 6.571429 | 7.0    | 3       | 10      | 7  |
| LRI       | AZITH  | 8.571429 | 5.0    | 5       | 30      | 7  |
| LRI       | LEVO   | 6.333333 | 6.5    | 5       | 7       | 6  |
| LRI       | DOXY   | 7.000000 | 7.0    | 7       | 7       | 2  |

Table 7. Days of therapy for SST by antibiotic code (Nursing Home A, January 2019- February 2020)

| simp.site | abxnm   | Mean      | Median | Minimum | Maximum | n  |
|-----------|---------|-----------|--------|---------|---------|----|
| SST       | CEPHLX  | 7.545454  | 7.0    | 5       | 14      | 22 |
| SST       | DOXY    | 8.428571  | 7.0    | 7       | 21      | 15 |
| SST       | METRO   | 26.333333 | 30.0   | 7       | 31      | 12 |
| SST       | AMOXWC  | 6.333333  | 7.0    | 5       | 7       | 3  |
| SST       | SULFAET | 6.333333  | 7.0    | 5       | 7       | 3  |
| SST       | AMOX    | 10.500000 | 10.5   | 7       | 14      | 2  |
| SST       | CEFDIN  | 19.000000 | 19.0   | 8       | 30      | 2  |
| SST       | CLIN    | 6.000000  | 6.0    | 6       | 6       | 1  |
| SST       | FLUCO   | 7.000000  | 7.0    | 7       | 7       | 1  |
| SST       | LEVO    | 30.000000 | 30.0   | 30      | 30      | 1  |
| SST       | NITRO   | 7.000000  | 7.0    | 7       | 7       | 1  |
| SST       | TRIM    | 5.000000  | 5.0    | 5       | 5       | 1  |

Figure 4. Days of therapy/1,000 resident days by site code (All Facilities, January 2019 - February 2020)

