that focus on drug de-escalation and incorporation of laboratory data into prescription choice should be implemented.

Table 1: Characteristics of patient cases with requests for carbapenem therapy

| Cases with PARa requests | Total | Definitive | Empiric | n = 183 | n = 56 | n = 127 | Pvalue |
|--------------------------|-------|------------|---------|---------|--------|---------|--------|
| Age (median, years)       | 75.5  | 78.4       | 72.7    | 0.09    |        |         |        |
| Gender (% male)           | 44.8  | 53.6       | 40.9    | 0.11    |        |         |        |
| Duration of carbapenem therapy (days) | 6.5  | 70.0       | 5.0     | 0.13    |        |         |        |
| Mortality (% deceased)    | 23.0  | 17.9       | 25.2    | 0.28    |        |         |        |
| Recurrent infection (%)   | 765   | 3.5        | 94.5    | 0.17    |        |         |        |
| Guideline-based carbapenem therapy (% concordant) | 59.0 | 69.6       | 54.3    | 0.05    |        |         |        |

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1785. Implementation of New Strategy for Real-time Antimicrobial Stewardship (ASP) in a Secondary Healthcare Hospital, in Mexico City

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Background. Real-time antimicrobial stewardship programs are associated with improved time to optimal effective therapies and decreased unnecessary antimicrobial use. However, these programs are often expensive and need special hardware or software for their implementation. Real-time communication technologies based on smartphones and texting media applications have not been used previously as a tool that can enhance clinical decision support programs. CDSPs. We evaluated the clinical impact of implementing this technologies as fundamental part of an ASP in a Secondary Healthcare Hospital. Preauthorization, prospective audit, and feedback interventions were combined into a texting media group alert, composed by infectious diseases physicians, pharmacists, microbiologist and epidemiology department, which evaluated and decided the best treatment option in a real-time period consisting of 2 hours for each patient. Preauthorization rules included carbapenems, glycopeptides, quinolones, clindamycin, Linezolide, and amphotericin.

Methods. We conducted an observational and descriptive study for the total number of interventions in a 3 year period. Data collection included hospital service for application, authorization or restriction, consumption in terms of defined daily dose, economic outcomes, nosocomial bacteria’s resistance patterns, and overall mortality rates.

Results. A total of 8,004 interventions were carried out; only 7.7% (636) were unanswered within the 2 hour period. Emergency department (34.35%) and Internal Medicine (24.6%) were the most monitored services. The most restricted ones were Surgery and Intensive Care Unit with at least 25% of prescriptions. The most restricted antibiotics were piperacillin/tazobactam, clindamycin and quinolones, restraining up to 80%. Saving cost represents US$130,000.00 per colistin and US$64,800.00 for carbapenems. The isolates of P. aeruginosa and A. baumanni resistant decreased by 75% and the overall mortality rate for nosocomial infections, were not increased.

Conclusion. This is the first report in Mexico of an ASP that incorporates mobile phone technology as a part of real-time surveillance program that emulates CDSP and the overall mortality rate for nosocomial infections, were not increased.

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1784. Impact of a Novel Multidisciplinary Anti-Tubercular Stewardship Program in a Tertiary Care Center in India

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Background: Inaccurate diagnosis of tuberculosis (TB) and inappropriate anti-tubercular therapy (ATT) contribute majorly to the emergence of drug-resistant TB in India, particularly in the private healthcare sector. Our study evaluated the appropriateness of ATT as per Revised National TB control Program at our institution, a large private tertiary center in Kerala, India, after establishment of an Anti-Tubercular Stewardship program (ATTSP).

Methods. The ATTSP was implemented as part of a recently developed Antimicrobial Stewardship Program (ASP). A multidisciplinary team including an administrative physician, pharmacist, pulmonologist, infectious disease specialist, and clinical pharmacists met twice weekly to review all patients initiated on ATT and to assess each case for appropriateness in terms of right indication, right drug, right dose, right frequency, and right duration. For each patient who had an inappropriate ATT prescription, appropriate recommendations based on standard treatment guidelines were filed in the charts and communicated to the primary team via email and phone. Compliance to recommendations was monitored. The clinical pharmacists followed up patients after discharge.

Results. Eighty (52%) patients were prescribed ATT appropriately among the 153 patients reviewed from July 2017 to April 2018. Ninety-six interventions were recom- mended for the 73 cases with inappropriate ATT. Of these inappropriate ATT, 16 were for wrong indication, 27 for wrong drug, 52 for wrong dose and 1 for wrong frequency. Among the 137 accurately diagnosed cases of TB, 52% (71) were definite cases of TB while the rest were presumptive. Pulmonary, extra pulmonary and disseminated TB cases accounted for 45% (62), 50% (69) and 4% (6), respectively. ATT was appropriate in 63% (39) of pulmonary TB, and 54% (37) of extra pulmonary TB. Among 23 pulmonary TB patients with inappropriate ATT, 48% (11) were for wrong indication, 78% (8) for wrong dose and 17% (4) for wrong frequency. The 32 inappropriate extra-pulmonary TB cases included 19% (6) for inappropriate drug selection and 81% (26) for inappropriate dose. Compliance to ATTSP recommendations was 34%.

Conclusion. TB in India is a vital target for ATT stewardship (10% of patients in this cohort had an inaccurate diagnosis of TB). ATTSP may be a worthy initial target for novel ASPs in India.

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1785. Regional Variation of Antimicrobial Use in Japan From 2013 to 2016

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Background. Since antimicrobial resistance (AMR) is a global threat, judicious antimicrobial usage is required. Compared with European countries, antimicrobial use (AMU) is relatively low in Japan; however, the use of oral broad-spectrum antimicrobials is relatively high. Although the Japanese national action plan on AMR targets a 50% reduction in use of these oral broad-spectrum antimicrobials by 2020 from the level in 2015, 2016, the difference in did amongst each prefecture was analyzed, and comparison amongst the three major regions of East, Central, and West Japan was performed using Mann–Whitney U test.

Methods. National antimicrobial sales data from 2013 to 2016 was obtained from IQVIA Japan (Tokyo, Japan), which captures 99% of total sales in Japan. Antimicrobials were classified by the World Health Organization (WHO) defined Antimicrobial Therapeutic Chemicals (ATC) classification. WHO measures the number of antimicrobial use by Defined Daily Dose per 1,000 inhabitant-days (DID). From 2013 to 2016, the difference in DID amongst each prefecture was analyzed, and comparison amongst the three major regions of East, Central, and West Japan was performed using Mann–Whitney U test.

Results. From 2013 to 2016, the median (max, min) AMU (DID) change was −0.4 (2.8, −1.6). During the study period, 34 prefectures showed increasing trends and 13 prefectures showed decreasing trends. Median (max, min) AMU (DID) for total antimicrobials, oral cephalosporins, macrolides, and quinolones in 2016 was 14.4 (18.7, 11.2), 3.5 (6.9, 2.5), 4.5 (6.3, 3.2), and 2.8 (3.7, 1.9), respectively. The median total AMU (DID) in East, Central, and West Japan in 2016 was 13.2, 14.4, and 1.8, respectively. Median oral cephalosporins AMU (DID) in Central Japan (3.69) was significantly higher than that in East Japan (3.33) (P < 0.025). Median oral macrolides AMU (DID) in East Japan (4.11) was significantly smaller than that in Central (4.61) and West Japan (4.70) (P < 0.01). Median oral quinolones AMU (DID) in West Japan (3.28) was significantly higher than that in East Japan (2.98) and Central Japan (2.73) (P < 0.01).

Conclusion. From 2013 to 2016, significant regional variations of oral AMU were observed in Japan. Further studies are needed to specify the appropriate targets of antimicrobial stewardship intervention to reduce oral broad-spectrum AMU in Japan.

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