

EV0014

ePoster Viewing

Antimicrobials: antibiotic usage

Antibiotic consumption in French hospitals: longitudinal trends over six years (2008-13)

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OBJECTIVES: To assess antimicrobial consumption in hospitals in order to measure the impact of MedQual, Antibiology Network, initiative for promoting prudent use of antibiotics in hospitals in a French region.

METHODS : This retrospective study was carried out by MedQual network since 2008. The annual consumption data of antimicrobials was collected using a regional standardized file derived from a Microsoft Excel[®] application edited by the French Health Ministry and since 2013 on online tool, ConsoRes[®]. Systemic Antibiotics (WHO's ATC class J01) are collected. For each hospital, the annual numbers of patient-days were recorded and the antimicrobial consumption was finally expressed as a number of DDD per 1000 patient-days (PD).

RESULTS: Thirty nine hospitals participate since 2008. In 2013, over one hundred hospitals are given their antimicrobial consumption. The table gives the evolution for the cohort of 39 hospitals.

	2008	2009	2010	2011	2012	2013
MEAN (DDD/1000PD)	307.5	316.3	317.4	323.9	320.6	321.1
SD (DDD/1000PD)	117.5	110.6	105.1	118.3	109.9	118

There is no significant difference between 2008 and 2013 for the total antimicrobial consumption. The J01D and J01M are closely monitored as result as their ecology impact of over-consumption (cohort of 39 hospitals). The top 3 of antimicrobial class most commonly used is: Penicillins (J01C) with a median of 189.9 in 2008 and 166.8 in 2013, cephalosporins/penems/monobactams (31.4 versus 38) and quinolones (46.1 versus 33.2).

CONCLUSION: Since 2008, the number of participating hospitals increases, improving the representativeness of the region. The regional antibiotic stewardship and the momentum provided by MedQual, the antibiology network, are showing positive results with a significantly reduce of J01D and J01M class. The stable consumption of penems is reassuring given the emergence and spread of resistance.