

CP-145 EFFECT OF A TRAINING INITIATIVE TO IMPROVE ADHERENCE TO THE RECOMMENDATIONS FOR THERAPEUTIC MONITORING VANCOMYCIN

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PURPOSE

To analyze the impact of a training activity in the correct use of through serum vancomycin concentrations as a tool for monitoring the effectiveness and safety.

MATERIAL AND METHODS

The training activity was based on dissemination, in a teaching hospital, of a local antibiotic guideline including the recommendations contained in the document consensus on therapeutic monitoring of vancomycin (1).

Before-after study was conducted prior to comparing the training period (January-April 2012) with a later period (September-December 2013).

We selected patients treated with vancomycin and we collected data on duration and concomitant therapy, demographic variables, serum creatinine before and during treatment. Creatinine clearance was calculated by the MDRD-4, considering impaired renal function <80 ml/min.

To compare both periods the McNemar-Bowker test (SPSS v.15) was used.

RESULTS

-85 patients treated with intermittent infusion of vancomycin, 30 patients vs 45 after the training. The median age was 66 vs 65 years. Mostly men, 70% vs 55.6%. Median days of treatment was 7 [7 (1-46) vs 7 (1-24)].

-No levels were requested in 90% vs 73.3% for both periods, which met one or more monitoring criteria 63% vs 51.1%, found no statistical significance (p=0.379).

-More than five days duration criterion was 100% more frequent monitoring vs 86.9% in both periods

CONCLUSIONS

The implementation of an educational activity, has not met expectations in terms of an increase in adherence to recommendations.

It is necessary to intensify these training activities and performances of the clinical pharmacist on the usefulness and advantages of monitoring of vancomycin, particularly during prolonged treatment.