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Study of consumption pattern of imipenem in Imam Khomeini hospital in Sari, 2016 & 2018

Tannaz Dehpouri¹, Zahra Bagherzadegan¹, Faezeh Kohansal¹ and Ebrahim Salehifar²

¹Imam Khomeini Hospital, Iran

²Mazandaran University of Medical Sciences, Iran

Introduction: The indiscriminate use of broad spectrum antibiotics is a universal dilemma. This study was done to evaluate the Imipenem usage in different parts of Imam Khomeini Hospital in Sari.

Methods: This study was conducted in Imam Khomeini teaching hospital, affiliated to Mazandaran University of Medical Sciences in North of Iran. The use of imipenem before and after implementation of national guidelines for rational use of costly antibiotics (2016 versus 2018) has been evaluated. Health Information System (HIS) was used to extract the days patients stayed in the hospital and also the Defined Daily Dose (DDD) which recommended by World Health Organization (WHO) as an identical measurement of use of drugs.

Results and Discussion: Total Hospitalized patients were 110262 and 105412 in 2016 and 2018, respectively. Calculations show that the DDD values of Imipenem were 5.75 and 4.75 in 2016 and 2018, respectively. The DDD values of different wards in 2016 and 2018 were as following: Neurosurgery (1.08 to 0.52), ICU (6.67 to 4.33), Vascular surgery (102.40 to 45.83), Gynecology (0.14 to 0.04), Emergency (7.94 to 5.27), Oncology (19.61 to 13.25), Surgery ward (3.19 to 1.51), Gastroenterology (4.19 to 3.57), Oncosurgery (244.12 to 131.23). Showed that DDD values reduced in 2018 Comparing to 2016. The DDD values of some wards including Internal ward (12.07 to 12.21), Orthopedy (2.53 to 11.01), Orology (2.04 to 2.64) were increased in 2018 compared to 2016. The highest rate of DDD in 2016 and 2018 were both for Oncosurgery (244.12 and 131.21, respectively) and the lowest value were for Gynecology (0.14 and 0.04, respectively).

Conclusion: This study showed that implementation of rational prescribing protocol for administration of Imipenem effectively decreased the DDD and consequently lowered the cost of this valuable antibiotic, in different wards affected positively on antibiotic usage rate, decrease of expenditure from 2972880000 to 1323520000 Rial and DDD value from 5.75 to 4.75.

Notes: