

EVALUATION OF THE RATIONALITY OF PERIOPERATIVE ANTIBIOTIC PROPHYLAXIS

Coretchi Ianos, Garaba Cristina Department of pharmacology and clinical pharmacology

Introduction

Irrational perioperative antibacterial prophylaxis increases microbial resistance, treatment cost, and length of hospital stay.

Keywords

Perioperative, prophylaxis, antibacterial

Purpose

Evaluation of the rationality of perioperative antibiotic prophylaxis by assessing the time of administration of antibacterial drugs and the duration of their use.

Material and methods

In 5 surgical departments, 100 patients were evaluated for the time of administration of the antibiotic relatively to the time of incision and the duration of their prophylactic use.

Results

The antibacterial drug was administered 1-2 hours before the skin incision in 39 patients, one hour - in 25, and after the incision - in 36 patients. Duration of prophylactic use of antibiotics in 12 patients - up to 24 hours, in 88 - over 24 hours.

Table 1. Distribution of patients to the time of initiation of antibiotic prophylaxis.

	Time of initiation antibacterial prophylaxis			
Surgical department	120-60 min before skin incision	< 60 min before skin incision	After skin incision	Total number
Cardiac surgery of acquired defects	0	20	0	20
Colorectal surgery	16	3	1	20
Hepatobiliopancreatic surgery	4	1	15	20
Urology	14	1	5	20
General surgery	5	0	15	20
Total number	39	25	36	100

Table 2. Distribution of patients according to the duration of antibacterial drug administration

Surgical department	Duration of prophylactic administration of the antibacterial drug		Total number
	< 24 hours	> 24 hours	
Cardiac surgery of acquired defects	0	20	20
Colorectal surgery	1	19	20
Hepatobiliopancreatic surgery	3	17	20
Urology	3	17	20
General surgery	5	15	20
Total number	12	88	100

Conclusions

Perioperative antibiotic prophylaxis is largely irrational, which was manifested by the administration of the antibiotic after the incision, as well as by the duration of administration over 24 hours.