URRENT TRENDS IN ANTIBIOTIC PROPHYLAXIS IN COLORECTAL SURGERY IN RUSSIAN HOSPITALS

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Objectives

To evaluate the prescribing patterns of for perioperative antibiotic prophylaxis (PAP) in colorectal surgery (CS) in Russian hospitals.

Methods

The multicenter retrospective study of PAP in CS in Russian hospitals was carried out in 16 centers where case histories of patients who underwent CS in 1999 were analyzed. In all centers 50 consecutive case histories were Collected data included evaluated. demographic information; operation issues; dosage, route and course duration for prescribed antibiotics (pre- and post operation antibiotic therapy, PAP); surgical site infections (SSI); duration of stay.

Results

Altogether 643 case histories of patients were included in the final analyses (49% males and 51% females, mean age 50.0±17.4 years). The most common operations were: hemicolectomy - 21%, rectum resection -19.3%, sigmoid resection - 16.6% and colostomy 13.1%. Overall, PAP was used in

65.5% of all colorectal operations. Cefazolin, gentamicin, cefuroxime, cefotaxime, amoxicillin/clavulanate, metronidazole were the most commonly prescribed antibiotics (18.8%, 18.3%, 17.7%, 8.6%, 7% and 5.9% of total prescriptions, respectively) (fig. 1). Antibiotics in postoperative period were prescribed in 95% of patients and course was 7+3.3 days. Gentamicin (28.8%),metronidazole (11.9%), cefazolin (11.4%) and ampicillin (11.25) were prescribed mostly (fig. 2). Overall rate of SSI for CS was 13.9%, and it varies from 8.9% after colostomy to 20.2% after rectum resection (fig. 3).

Fig. 1. The most commonly prescribed antibiotics for PAP in CS

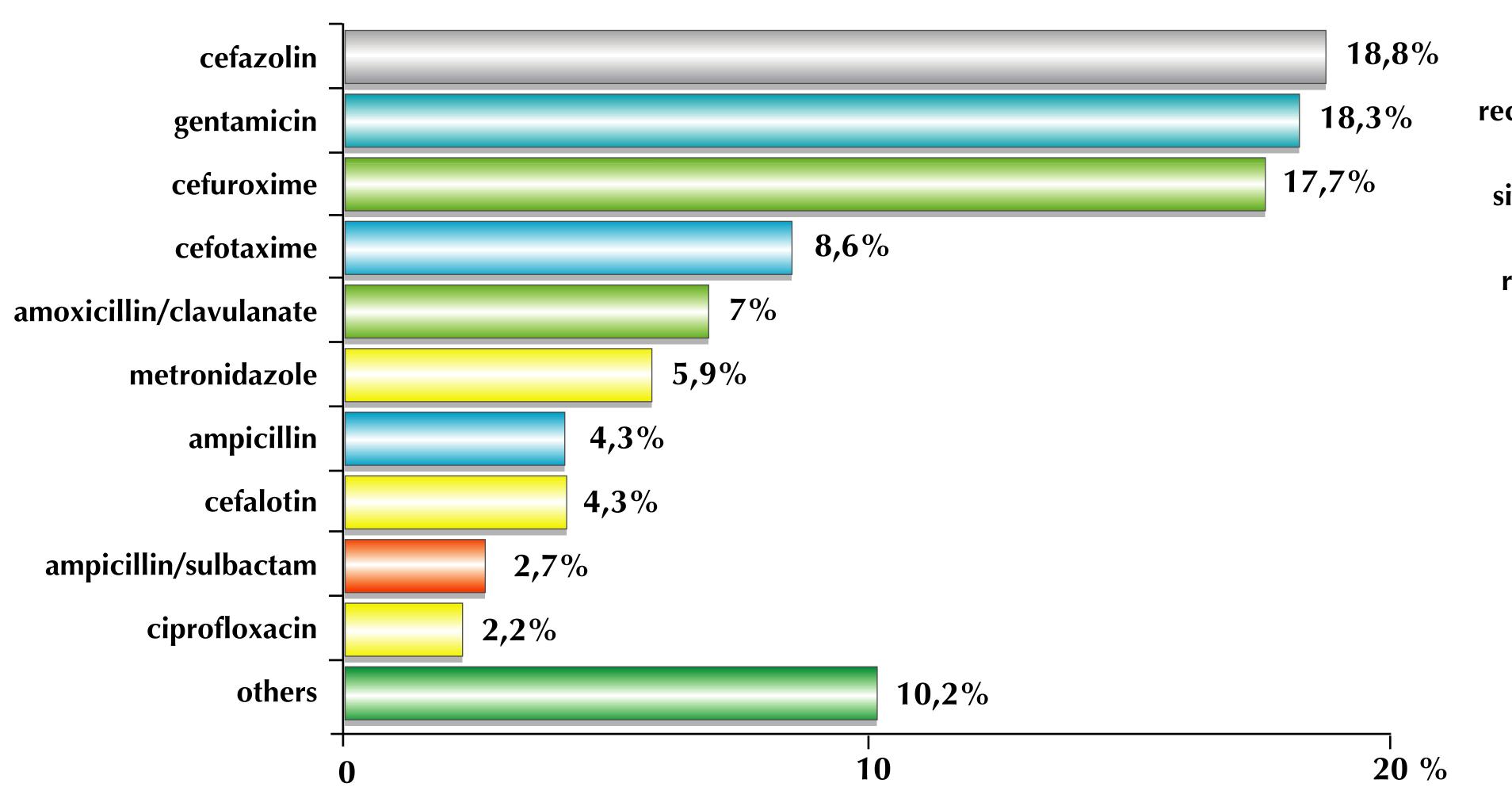


Fig. 3. SSI rates by the most common operations

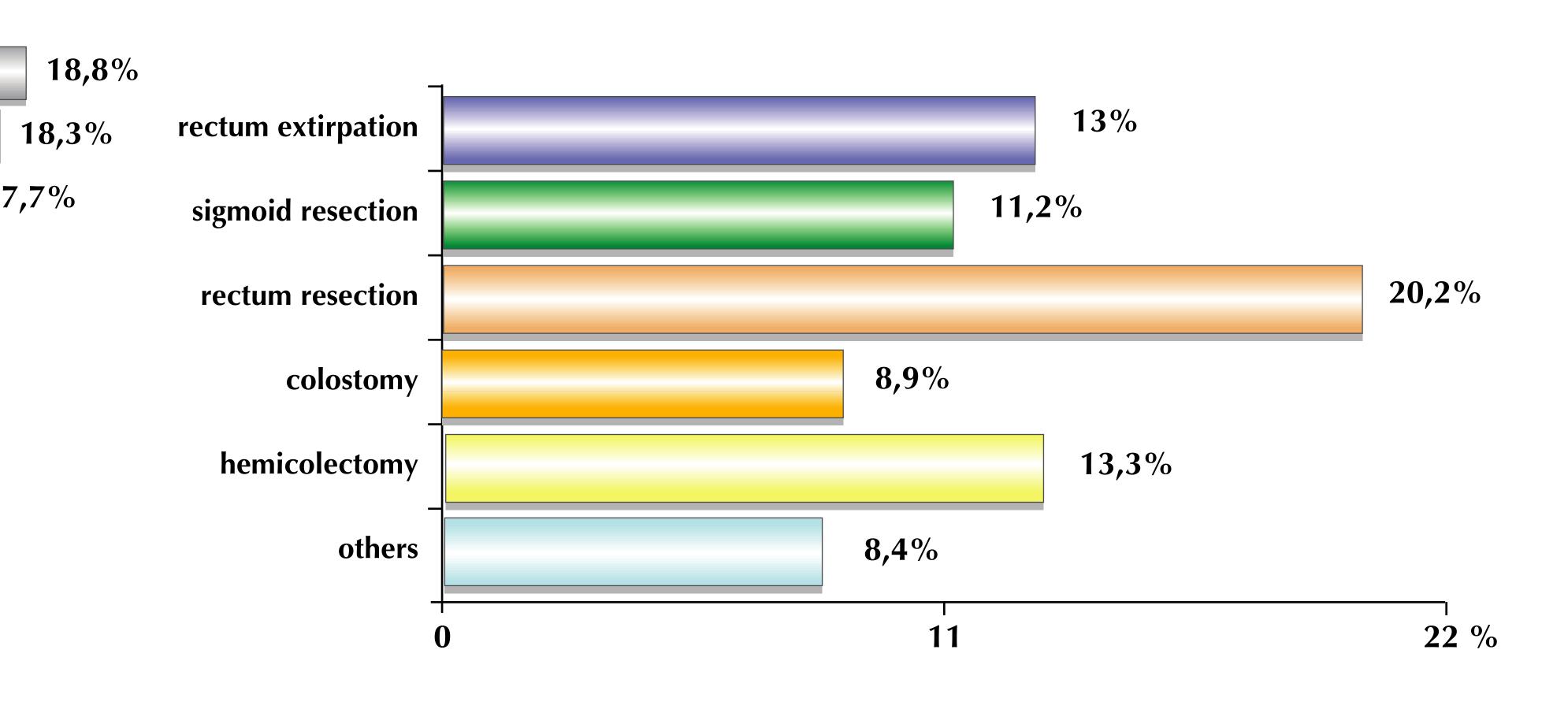
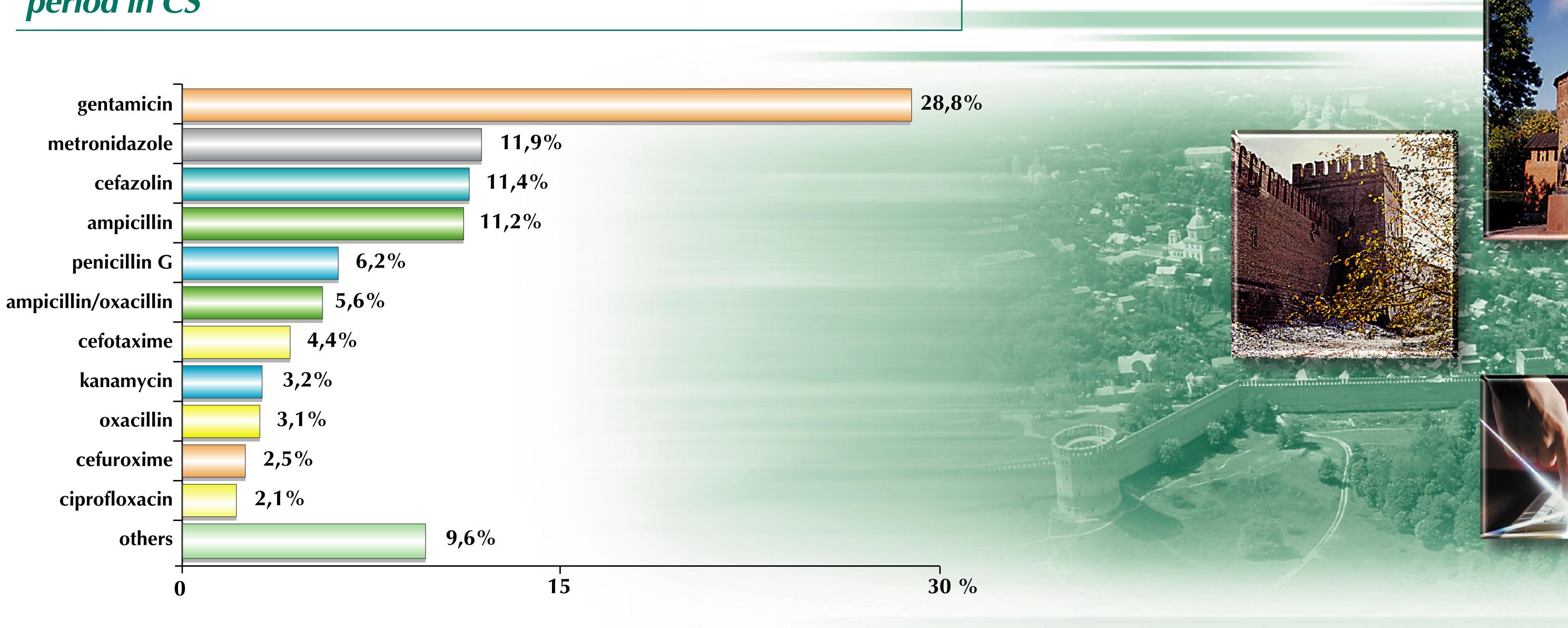


Fig. 2. The most commonly prescribed antibiotics in postoperative period in CS



Conclusions

Rate of PAP in CS is low. Antibiotics used for PAP are often inconsistent with recent recommendations. Despite of SSI presence or absence and PAP, antibiotic therapy in postoperative period is common. The guidelines for PAP in CS should be implemented and more education on the subject is necessary.