

# FIRST ANTIMICROBIAL CHEMOTHERAPY WEBSITE IN RUSSIA AND CIS

<http://www.antibiotic.ru>



# ANTIBIOTIC.ru

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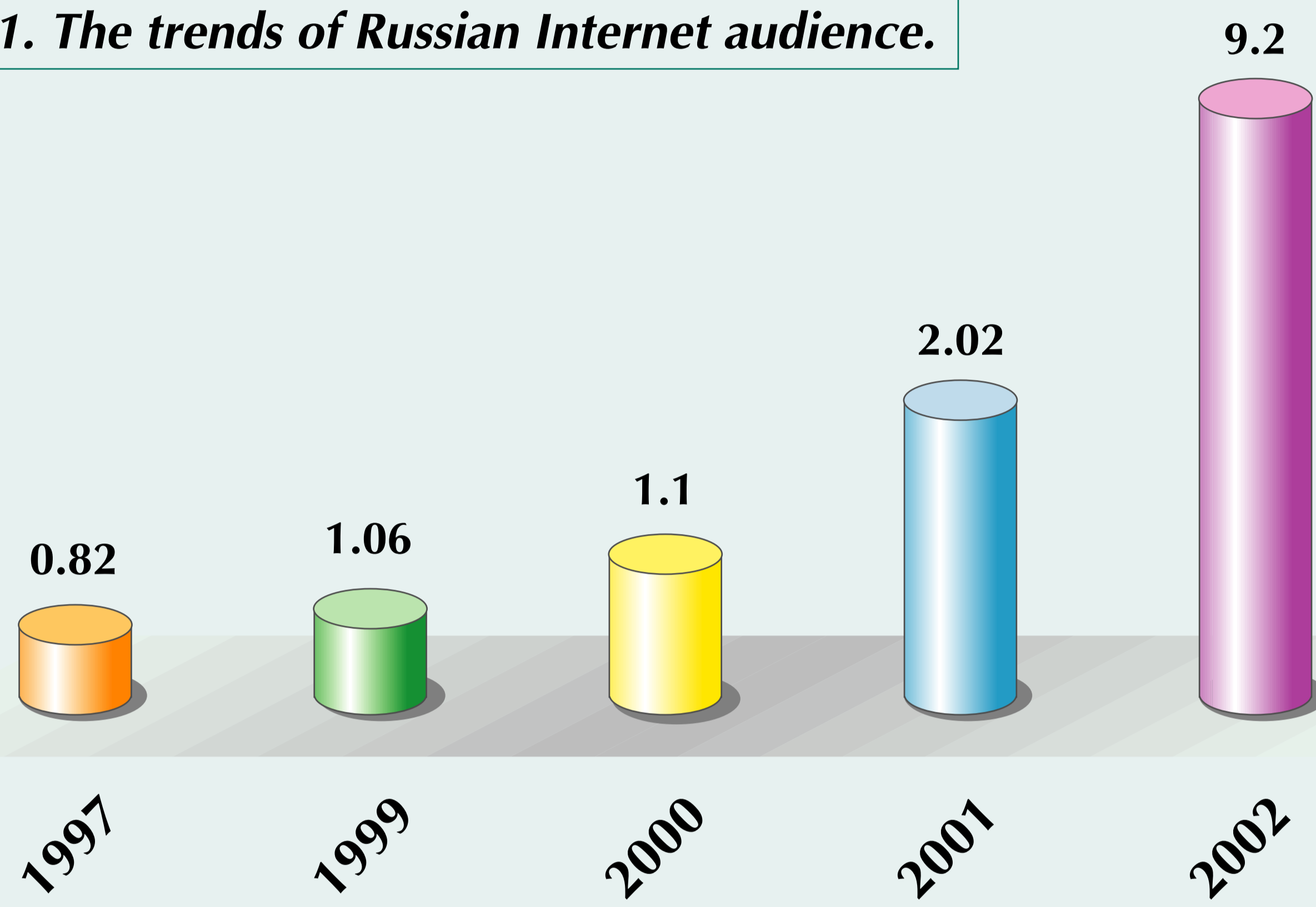
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## Background

Information about antimicrobial resistance and antibiotics is a subject of constant change. Health care professionals require updated scientific data on a regular basis. The use of Global Information Network resources and medical web-sites are promising forms for providing of such materials. It is of essential concern for countries with large territories.

Fig. 1. The trends of Russian Internet audience.



## Objective

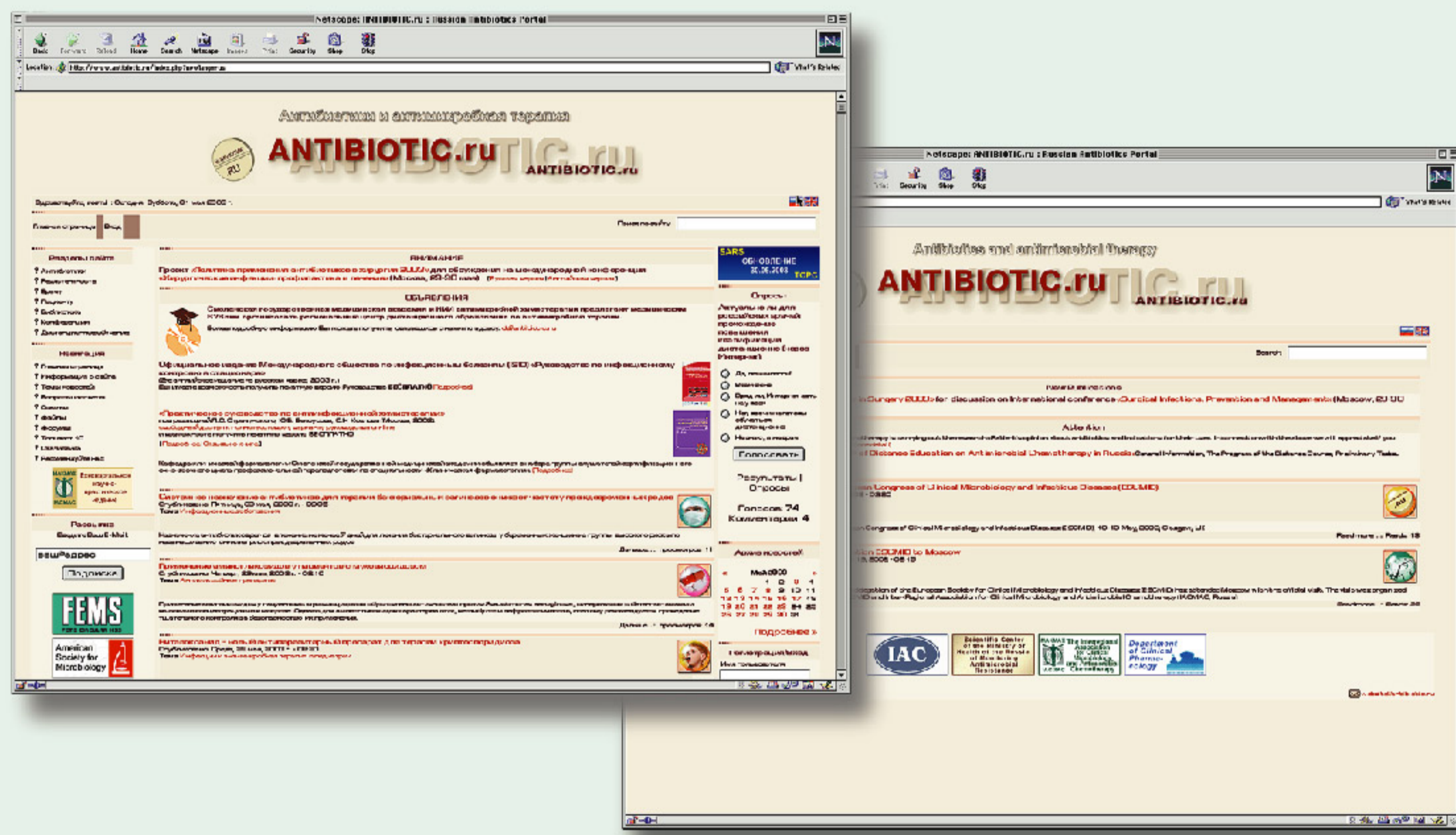
To summarize the experience of the first antimicrobial chemotherapy (AC) web-site development with support of non-profit medical organizations in Russia.

## Methods

Linux and Solaris operating systems are used for organisation of domain's hosting [www.antibiotic.ru](http://www.antibiotic.ru); for management of the web-site's content RDBMS PostgreSQL and MySQL are applied. All information on [www.antibiotic.ru](http://www.antibiotic.ru) is available for unrestricted use free-of-charge and based on the principles of Good Microbiology Practice and Evidence-Based Medicine.

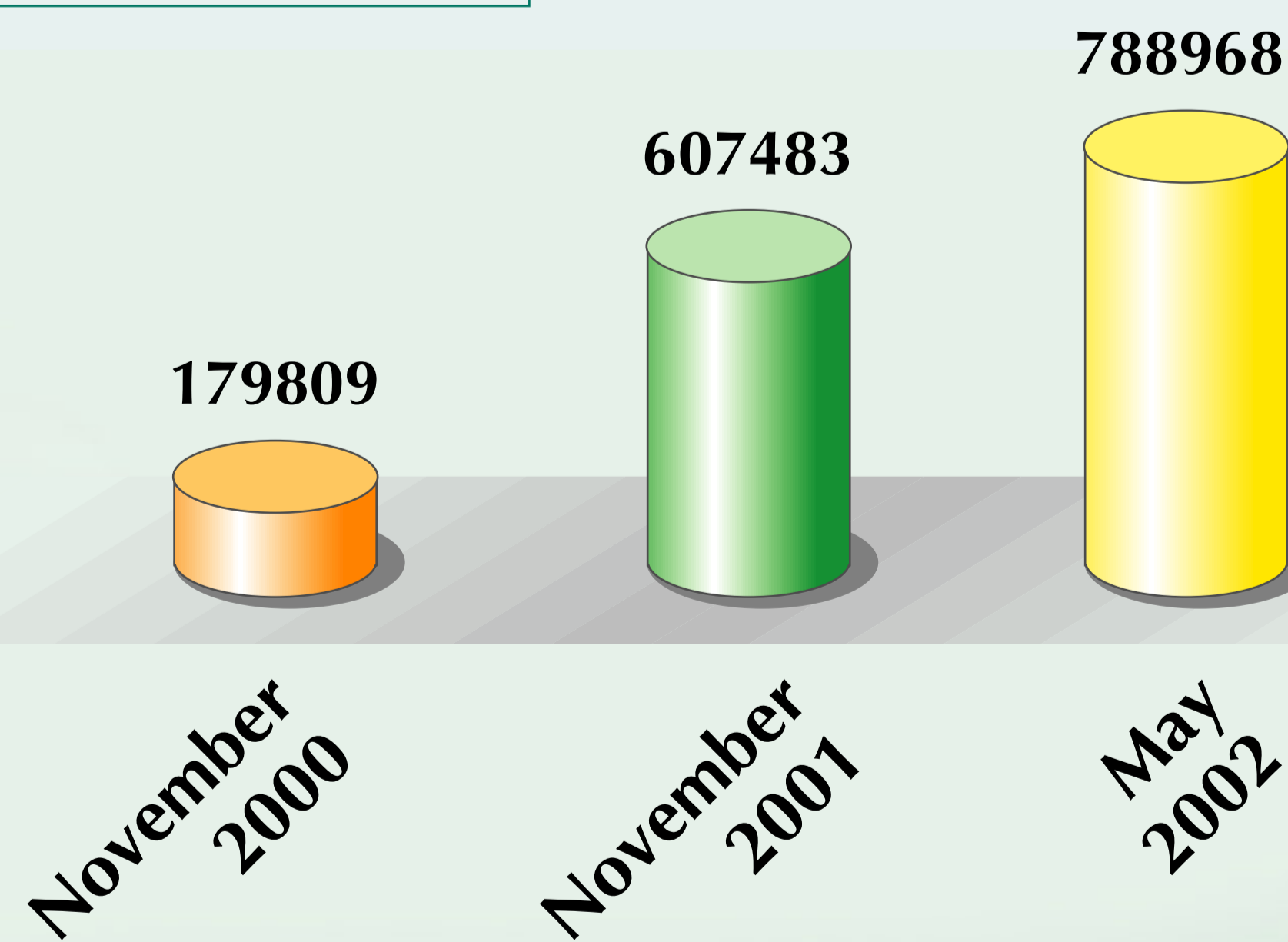
## Results

The web-site «Antibiotics and Antimicrobial Therapy» has following sections: «Antibiotics», «Antimicrobial resistance», «For physicians», «For patients», «Library», «Conferences».



Since 2002 the first Internet-centre of distance education on antimicrobial therapy started. According to the site statistics, total hits per month were as following: November 2000 – 179809; November 2001 – 607483; November 2002 – 982765; [www.antibiotic.ru](http://www.antibiotic.ru) takes 21st place among 1398 medical Internet sources of rating TopList-Medicine. There were 10734544 hits for the total period of the site performance. Visitors from 95 countries enter the web-site.

Fig. 2. Total hits per month



Since the initiation of the work 4 full-text practical guides, 11 issues of the journal «Clinical Microbiology and Antimicrobial Chemotherapy», 31 practical guidelines and informational letters, 25 articles as well as presentations and abstracts from Russian and international conferences were placed.



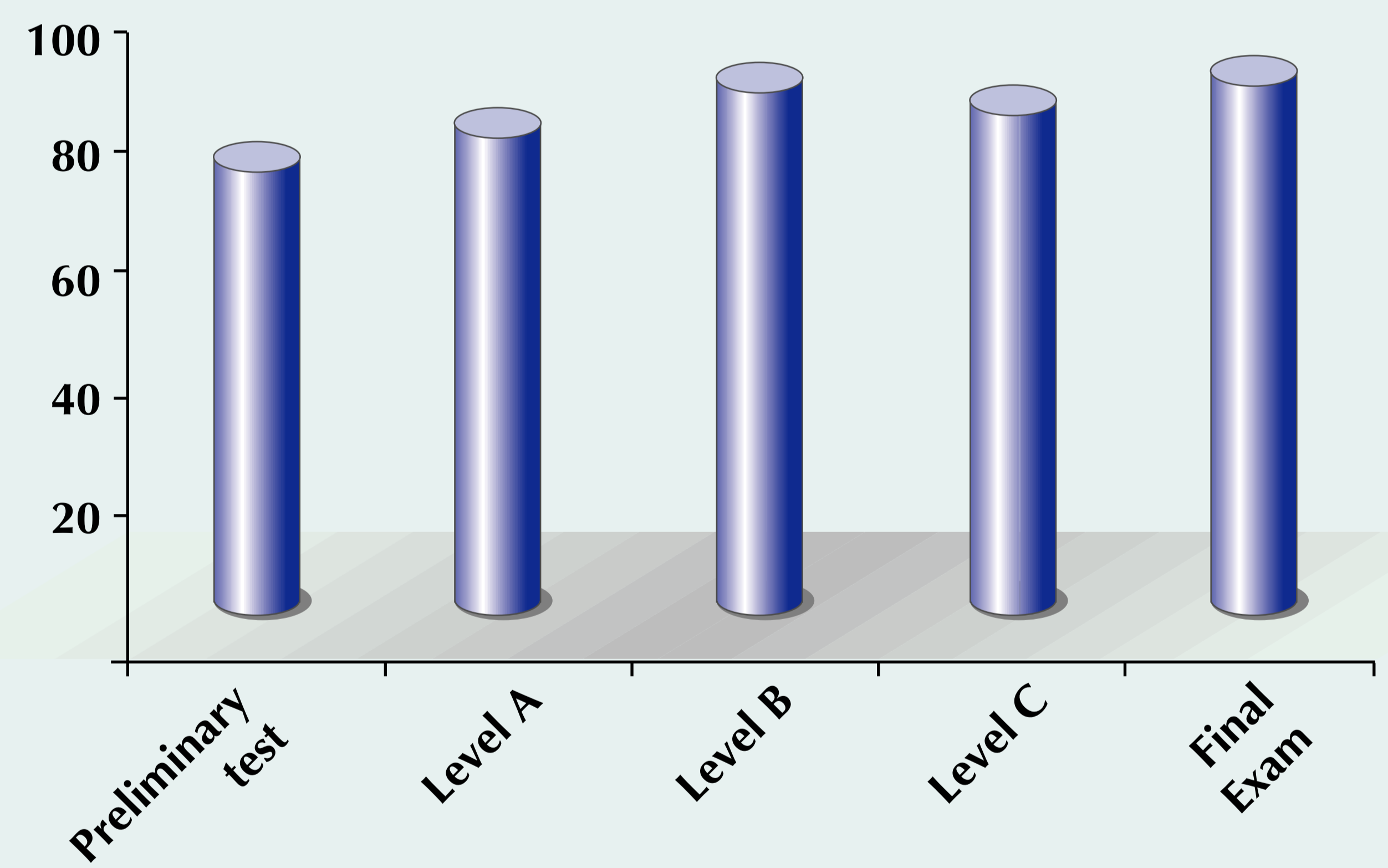
## Distance education

Since 2002 the first Internet-centre of distance education (DE) on antimicrobial therapy under support of the United States Pharmacopeia (USP) and the United States Agency for International Development (USAID) started its work.

The program of DE consists of 29 topics and is divided into 3 levels. Every theme contains the plan of study, educational materials (lection, practical guidelines), control questions, tests and case situations. During the course students study several topics, after completion each of them they are offered self-check tests. Upon finishing of the level intermediate check of the acquired knowledge is performed (in the form of tests and practical tasks). Altogether there were made 196 clinical tasks and 710 test questions. Tests are conducted on-line. After finishing the course and passing the final examination successfully health care specialists get official certificates stating their improvement of knowledge in the field of antimicrobial therapy. During the project realization 71 students with various DE technology integration were trained.

Analyzing the number of the correct answers given by students during their level tests and the final test revealed the obvious increase in the number of the correct answers that testifies to the effectiveness of the educational process (fig. 3).

Fig. 3. Correct tests answers.



## Conclusion

1. Web-site is a claimed and useful information source for physicians.
2. Electronic format allows to regularly update information on antibiotic resistance and therapy of infections which in turn should stimulate more appropriate usage of antimicrobials.

