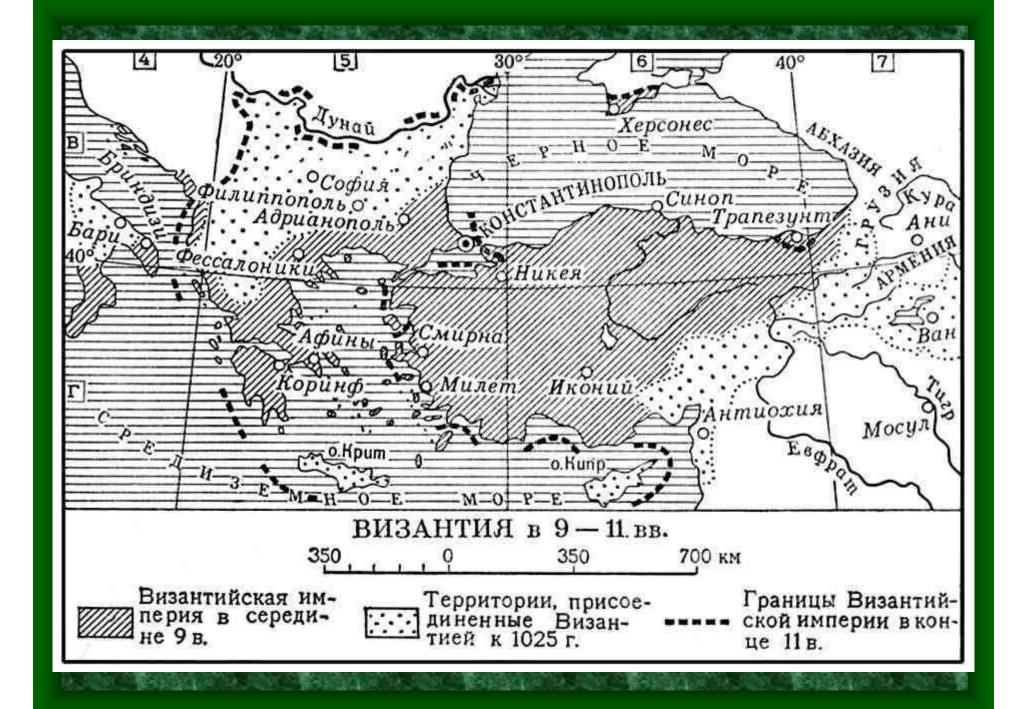


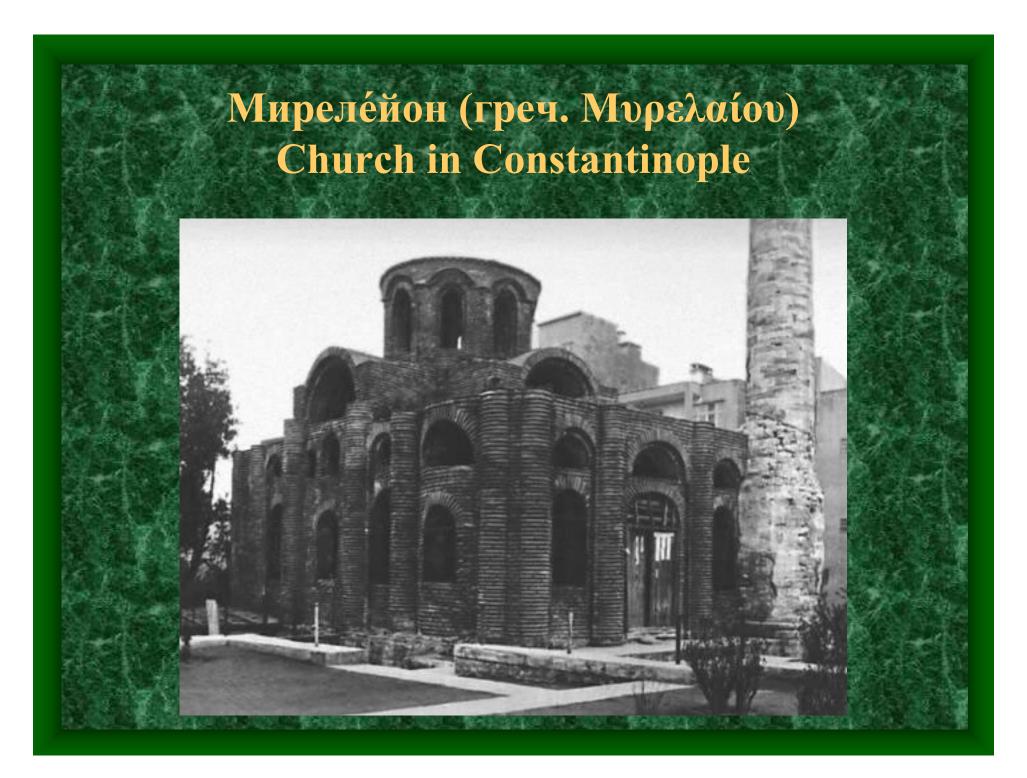


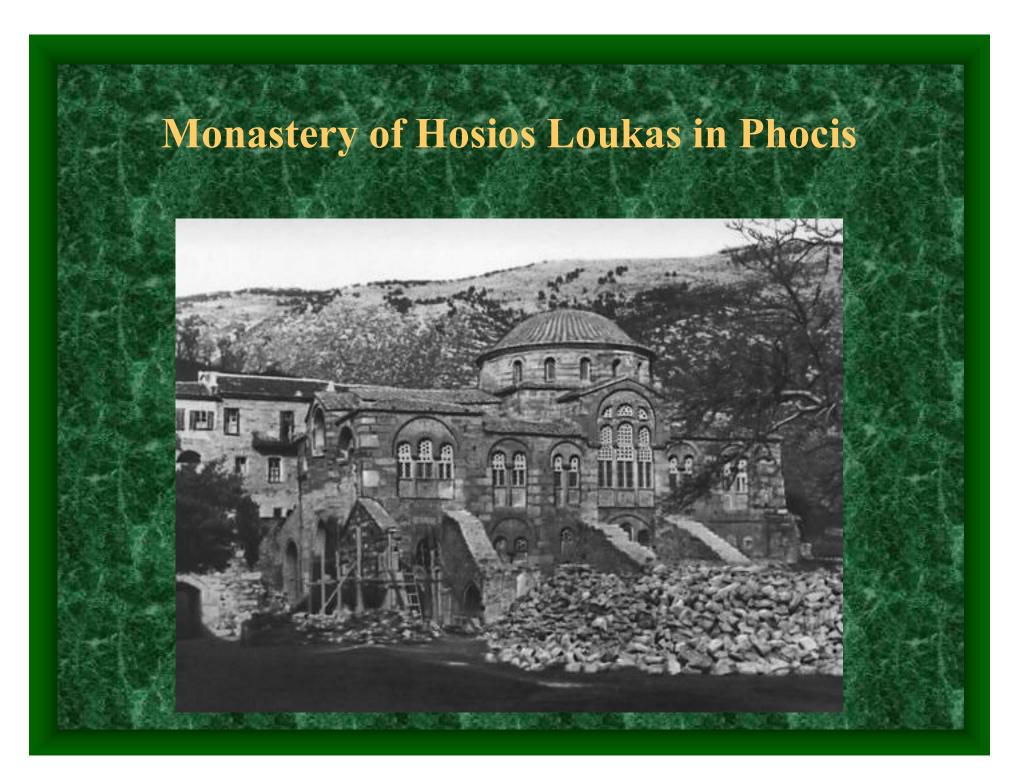
- In China about III-II centuries. BC.
- In India in the first century AD
- In the Caucasus and Middle Asia IV-VI centuries.
- In Western Europe V-VI centuries.
- The Old Russian state IX in.
- In all countries, feudalism had 3 main periods: formation, development and decline



- After the fall of the Western Roman Empire was saved the Eastern Roman Empire, called Byzantium
- Byzantium became the largest cultural center in Eastern Europe (the capital Constantinople)
- The state religion of the Byzantine Empire was Christianity









- Preserving the ancient culture of the Ancient World, and pass it on to other nations
- It promoted the revival of culture in Western Europe
- Among the many cultural achievements of the
- Byzantine Empire retained main works and traditions of Eastern, Greek and Roman philosophy, including the legacy of Medicine

The development of medical knowledge

- The main source of medical knowledge in the Byzantine Empire was "Hippocratic Collection" and the writings of Galen.
- However, the search for explanations of the disease nature was stopped.
- Came to the fore to study practical methods of treatment. Medicines and their healing properties have been the subject of special study.



- Oribasius (325-403 gg.) Made medical encyclopedia in 70 volumes, which summarized the works of Hippocrates, Galen, Democritus, and others.
- Collection of 9 volumes of "Review" or "Synopsis" have survived to our foundation of ancient medicine
- Synopsis for many years served as a textbook for doctors
- Oribasius also compiled a collection of simple recipes how to prepare easy medicines



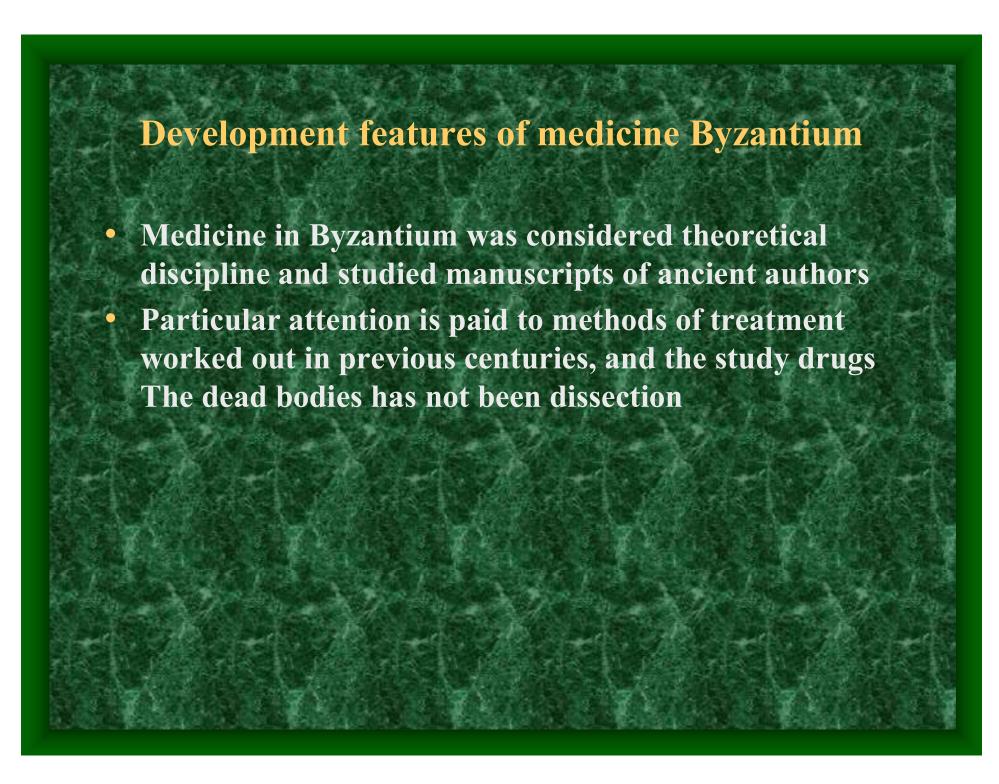
- Aetius from Amida (502-572 yy.) Created a very useful for medical practice essay "Four Books" in 16 volumes Alexander from Trall (525-605 yy.)
- For work about internal medicine and practices was called healer



- Paul from Island Aegis (625-690 yy.) Known as the surgeon early Middle Ages
- The main achievement this Byzantine of scientists collected and analyzed a rich heritage of ancient medicine.
- Tye scientists added in the encyclopedic reference books much of their own work and critical comments



- Organized by the Higher School (taught philosophy, mathematics, astronomy, medicine)
- The training system has been designed to acquire secular education
- The most famous were the school in Alexandria and Constantinople

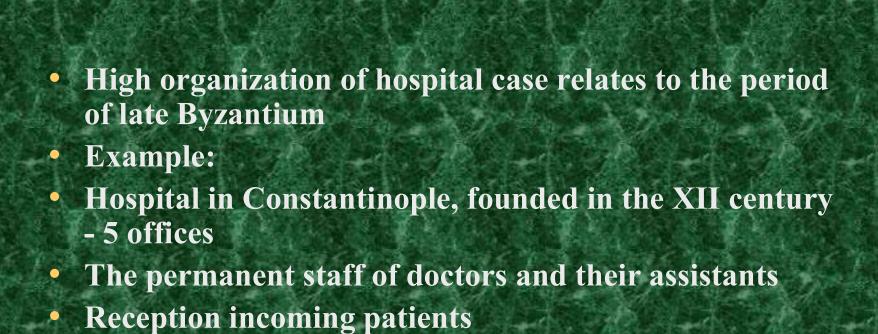




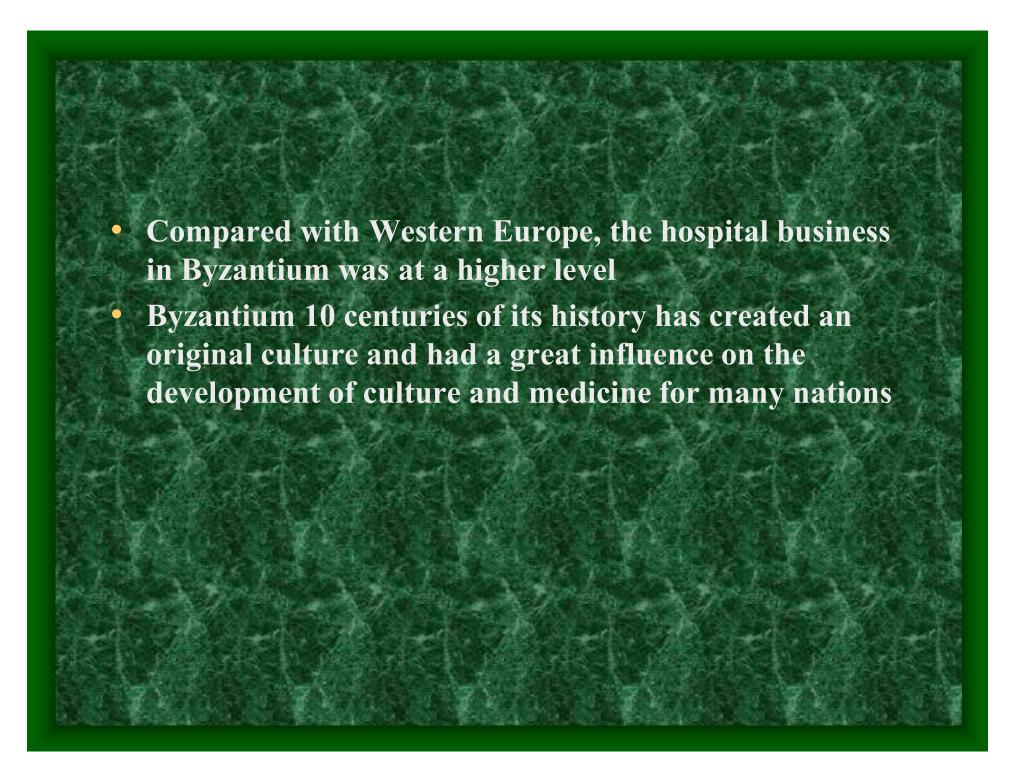
- In the early Middle Ages there were the first civilian hospitals.
- The organization of these hospitals connected with the idea of hospitality and assistance to the needy, the poor, the infirm.



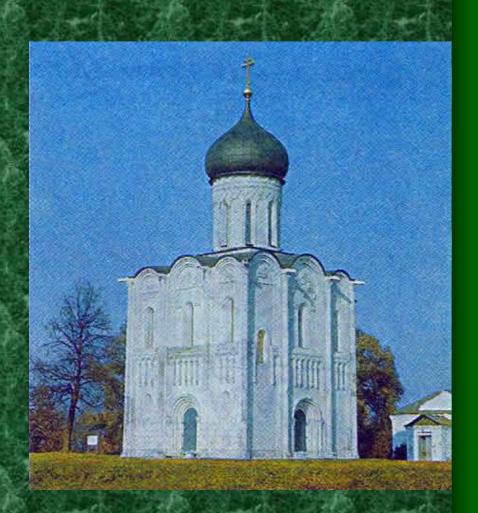
- Hospital held on the money of the church was developed monastic medicine
- Hospitals operated on the basis of monastic charters and played a great role as insulators to prevent epidemics
- One of the first monastery hospital was founded in the IV. Caesarea



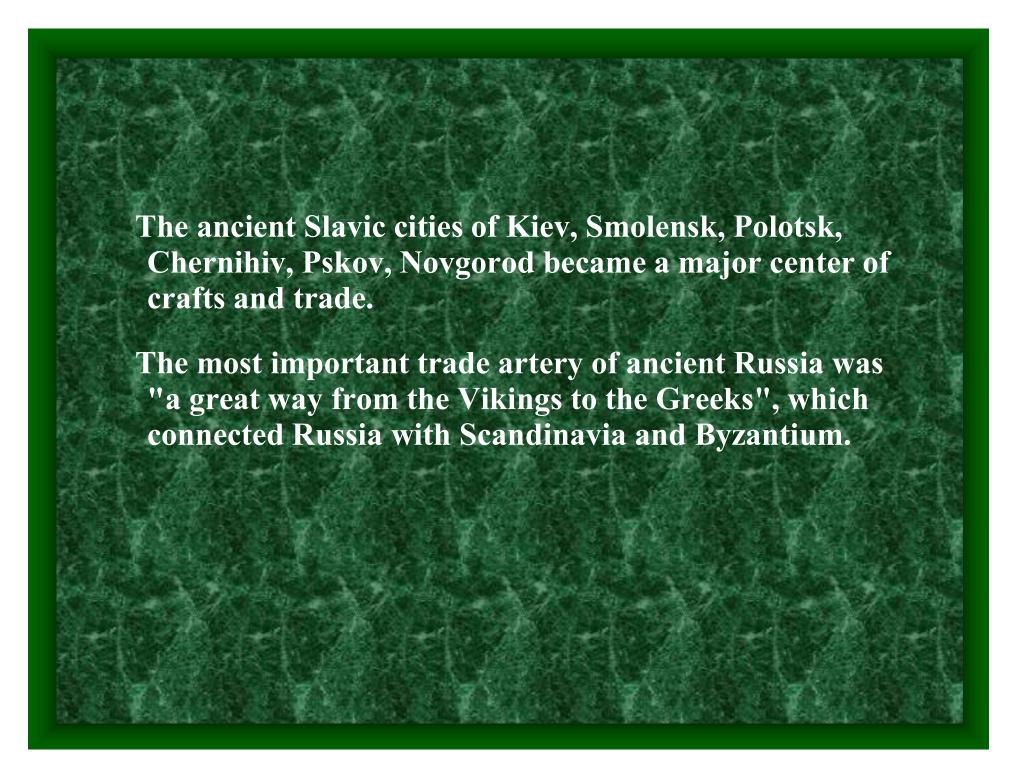
Training medical skill was in hospital

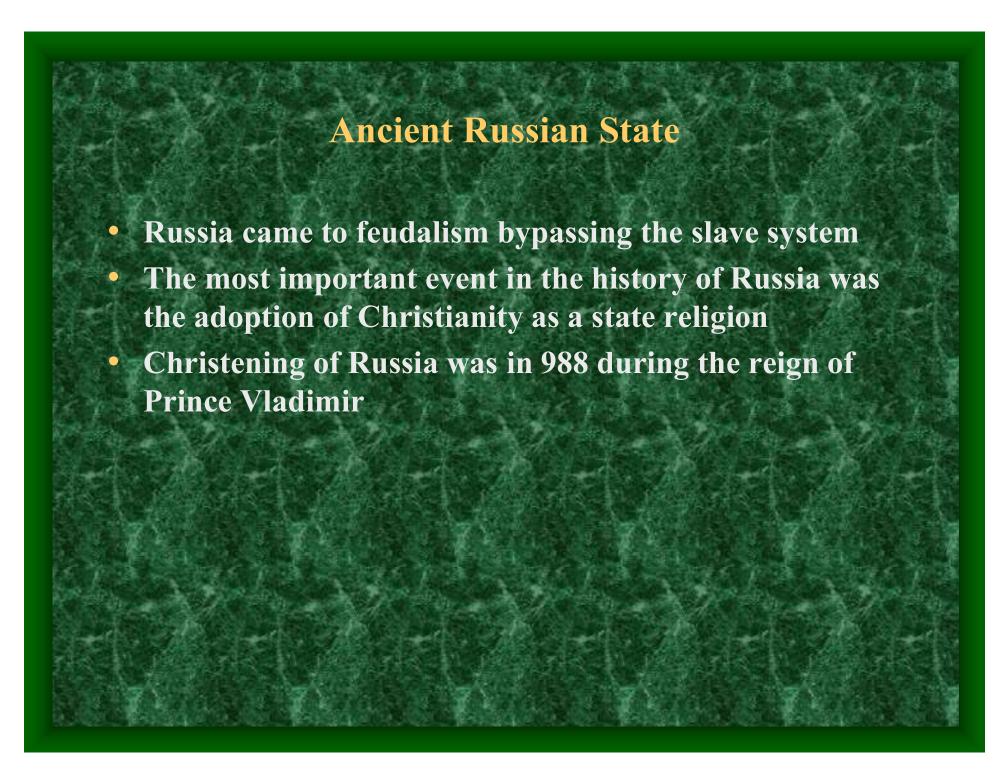


In the second half of the IX century in the vast lands of Eastern Europe formed the Old Russian state – Kievan Rus

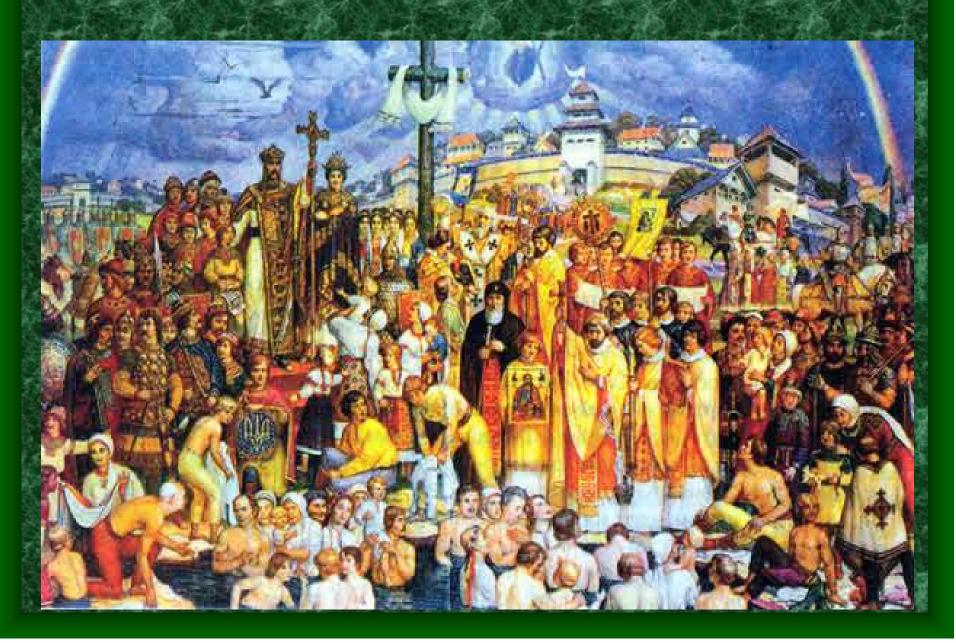








Christening of Russia



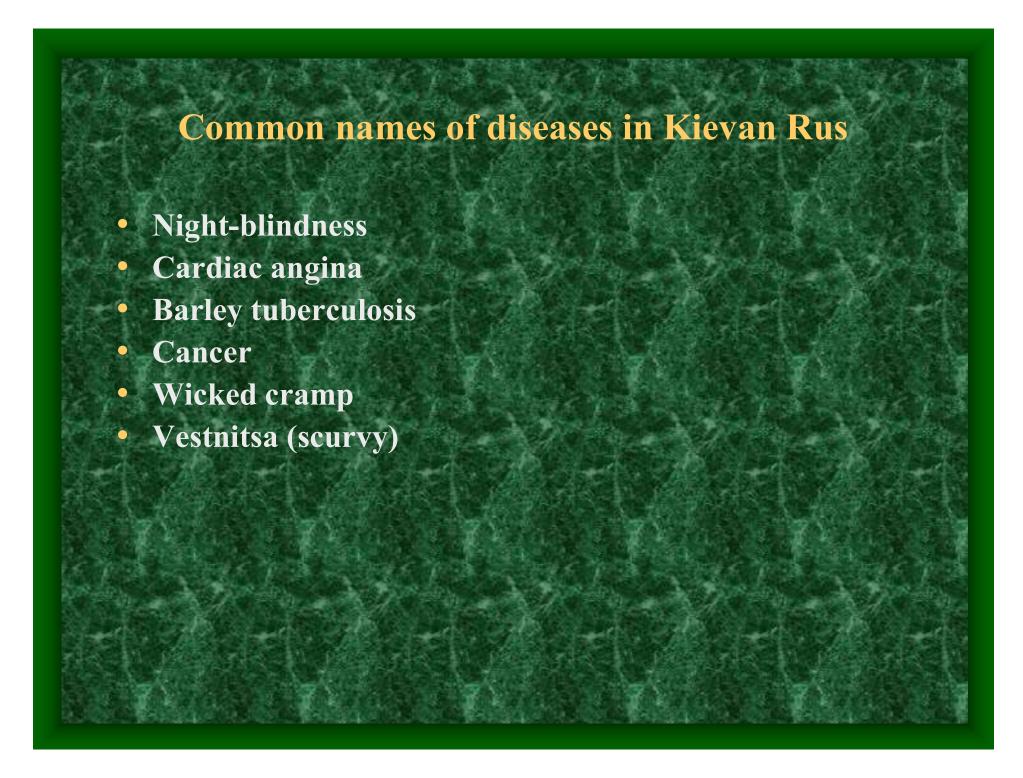
The value of adoption of Christianity

- 1. For the development of the Old Russian state was greatly influenced by: facilitating the development of culture, the creation of written monuments, art and architecture.
- 2. Changing the international position of the Old Russian state. It becomes like the Christian states of Europe.
- 3. Establishment close relations with Byzantium Christianity brought with it many of the achievements of Byzantine and ancient medicine.
- 2. Изменилось международное положение Древнерусского государства. Оно становится в общий ряд христианских государств Европы.

Doctors in Old Russian state:

- ✓ Lechtsy representatives of traditional medicine
- ✓ Doctors professionals invited foreign doctors

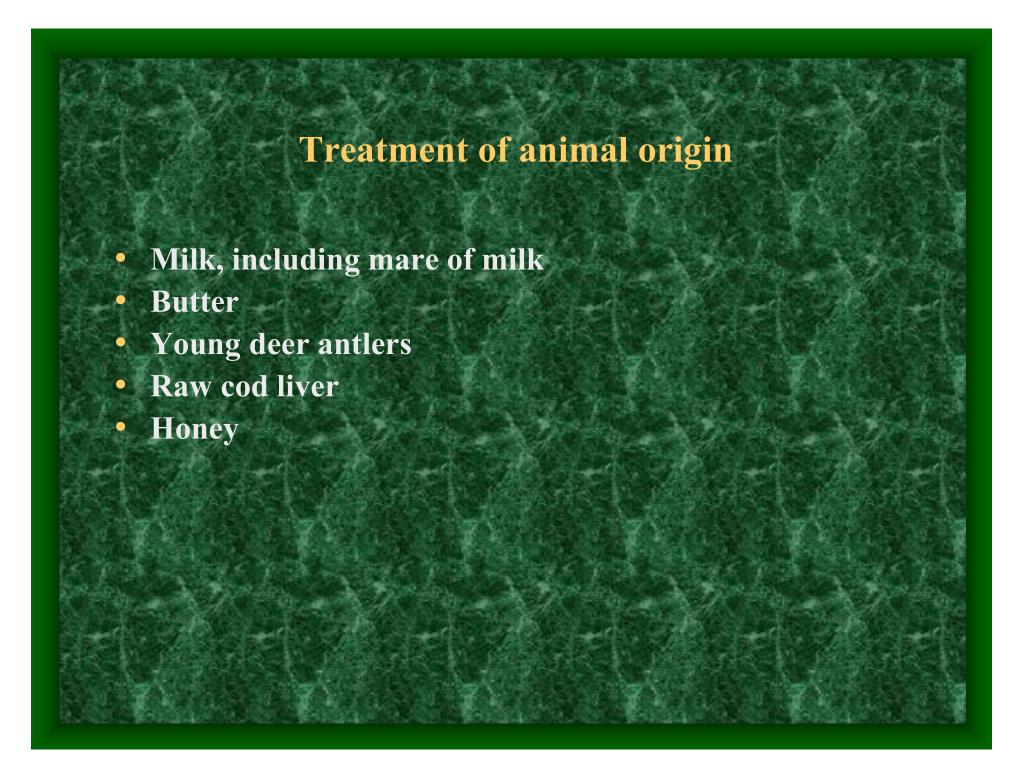






- The personification of disease and tribulations in Slavic mythology were demonic entities Grief and Litho.
- Reached our days transmitted verbally conspiracies addressed to the pagan gods that can get rid of the disease.
- Patients were treated by various means of plant, animal and mineral origin.

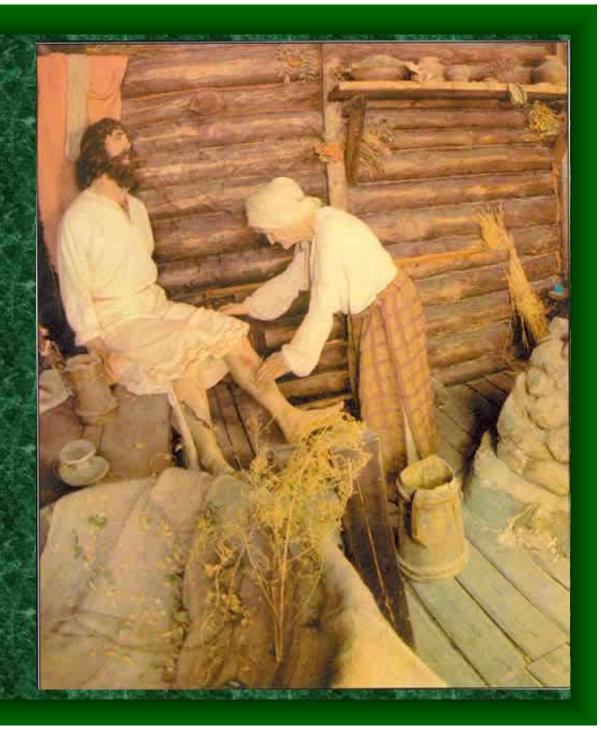


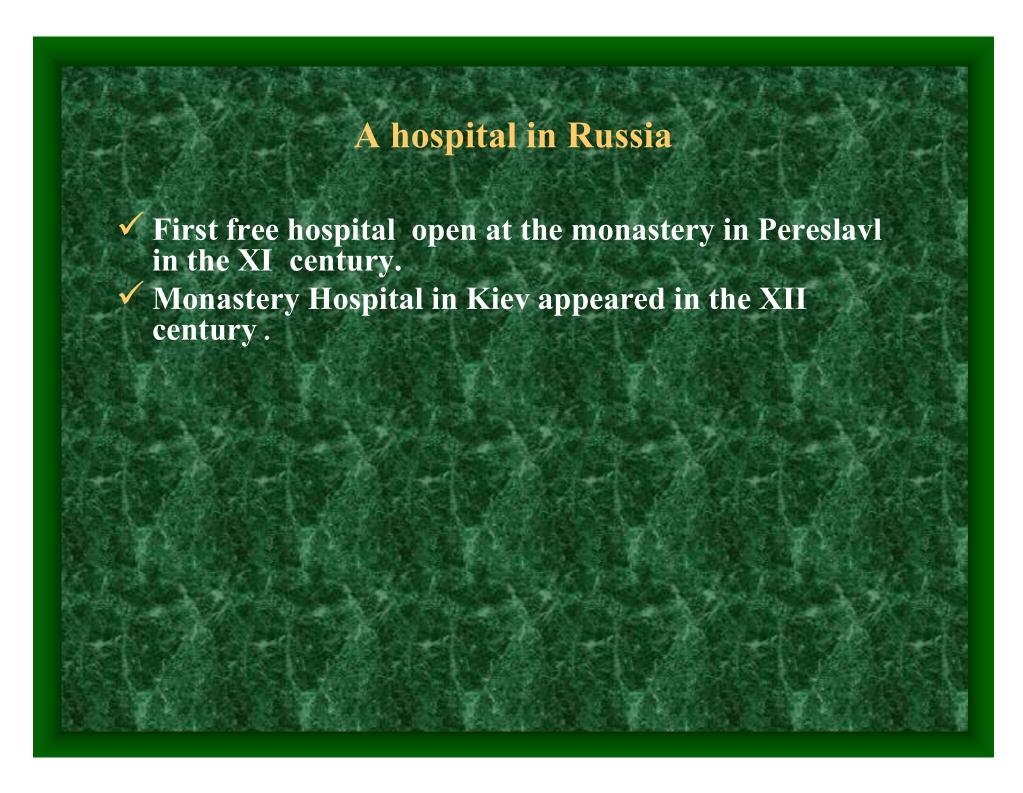




- Chrysolite in particulate form
- Sawdust from copper
- The powders from silver and gold
- Vinegar
- Saltpeter
- Turpentine
- Copper sulfate
- Used the healing properties of mineral water (Narzan)

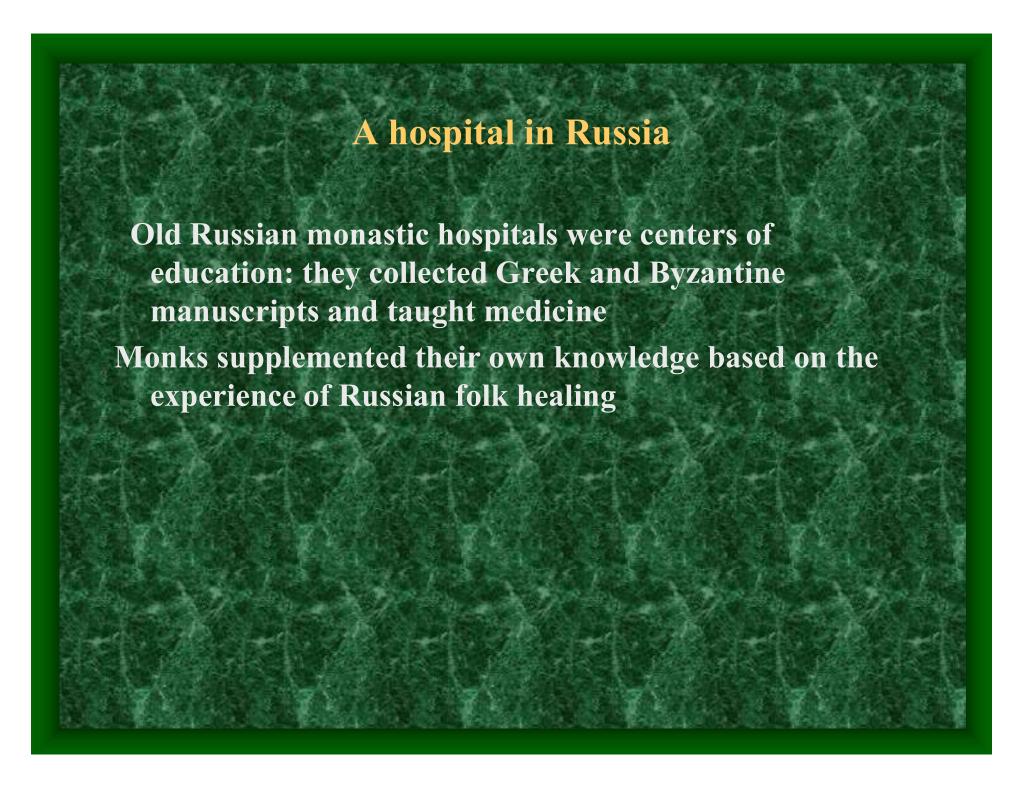
Old Russian
bathhouse
Kiev. The National
Museum of Medicine
in Ukraine







- Experienced doctors worked in hospitals monastery
- The monastic hospitals were available to the public
- Medical care was free



Sources of information about the medicine in ancient Russia

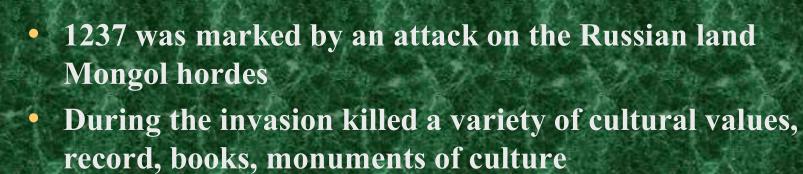
- 1.Izbornik Sviatoslav (XI century) described by some diseases, methods of their treatment
- 2.Lechebnik "Alimma" (ointments, XII cent.) General remarks on hygiene, hygiene of marriage, food hygiene, external disease, internal disease
- 3. Therapeutic collections of "Vertogradov", "Trawniki", "Zelnik" practical advice of traditional medicine
- **4.** Charter Grand Prince Vladimir Svyatoslav (end of X the beginning of XI century) to determine the legal status of the doctors

Sources of information about the medicine in ancient Russia

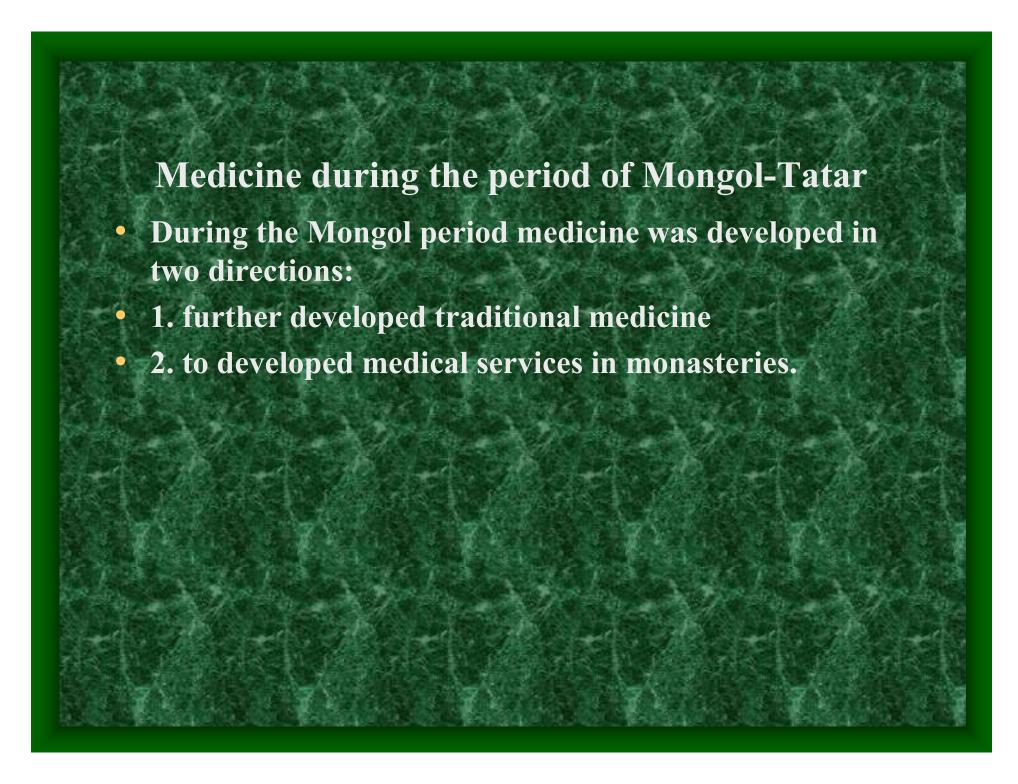
- 5. "Russian Truth" a set of legal norms of Kievan Rus (XI XII century) asserted the right to medical practice and the legality of charging for treatment
- 6. Paterik chronicle of Kiev-Pechersk Monastery (XI XIII century) the charter of the monastery hospital, healers information about the monastery, about medical ethics
- 7. Domostroy XVI century the rules and regulations of household hygiene 8. Resolution of the "Stoglav of the cathedral" about the sick and maimed,

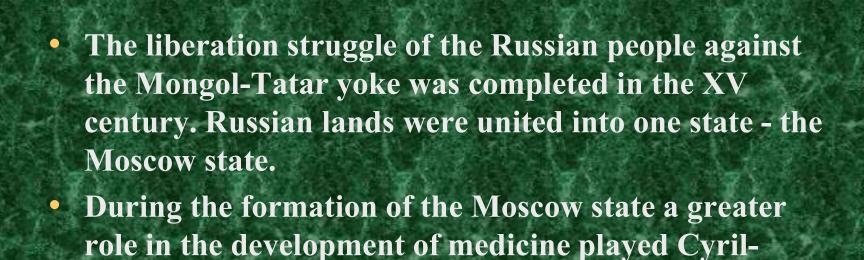


- Among the people the people's healing
- After the adoption of Christianity developed monastic medicine
- Since the reign of Yaroslav Mudrogo appeared secular medicine in Russia



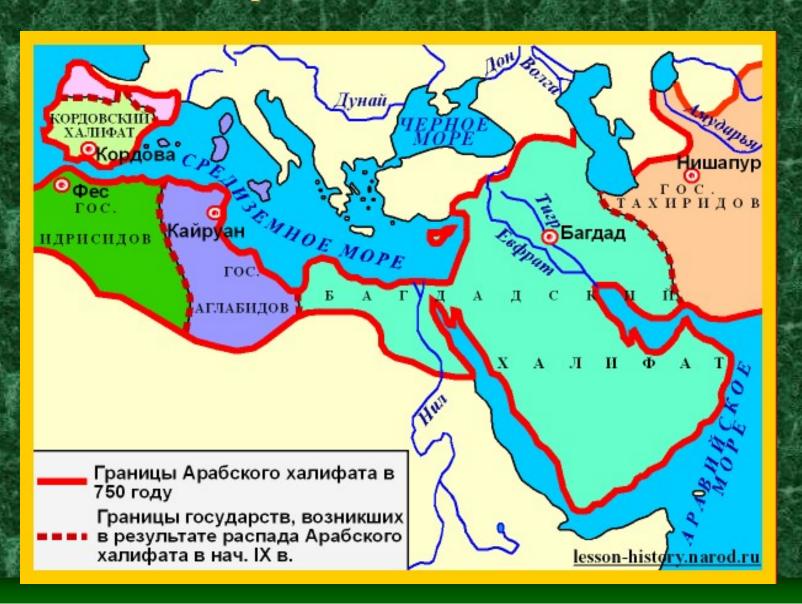
• During the invasion of the conquerors did not destroy the monasteries and left them all rights as he used before the conquest

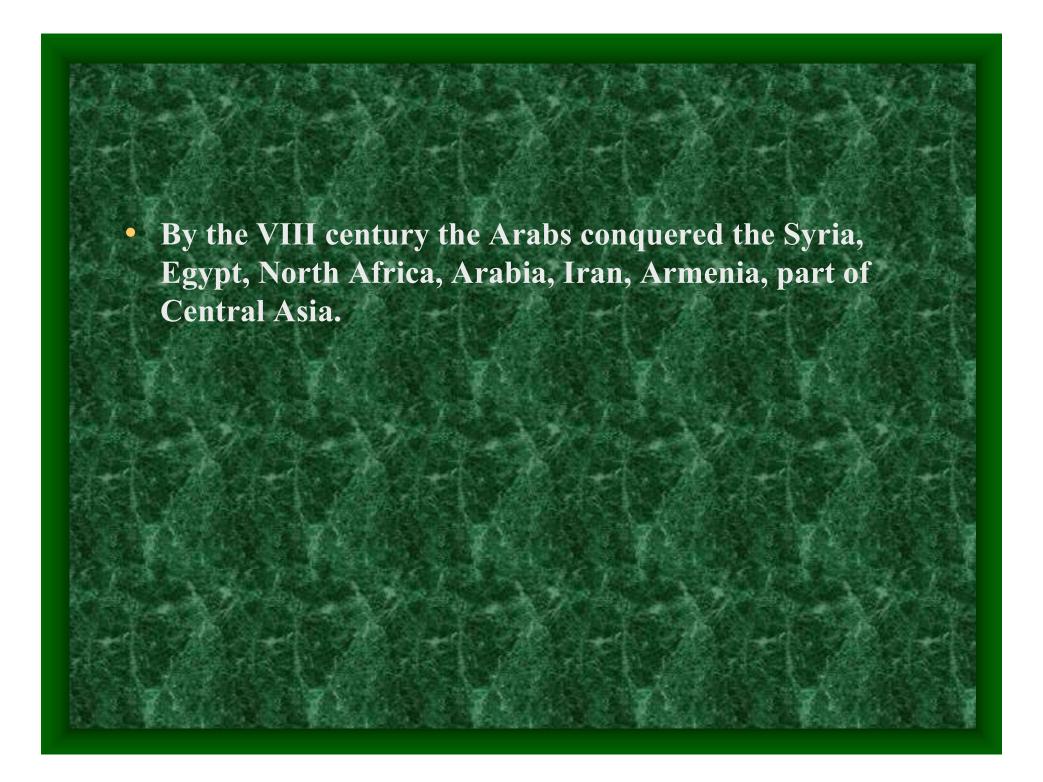




Belozersky Monastery.

Arab Caliphate - Islamic feudal land





Features of medicine in the Arab Caliphate

- Doctors Arab caliphate kept the precious heritage of medicine ancient world (Ancient Greece and Ancient India)
- Approx medicine to the natural sciences, chemistry,
- Developed the doctrine of poisons and antidotes
- To lay the foundations of toxicology
- To verify the correctness of treatment
- Studied the effects of drugs on animals
- Improve the organization of hospitals



• For religious reasons autopsies was not conducted, resulting in the level of anatomical studies was small. Therefore, surgery and obstetrics developed weaker than the study of infectious diseases, hygiene, pharmacology



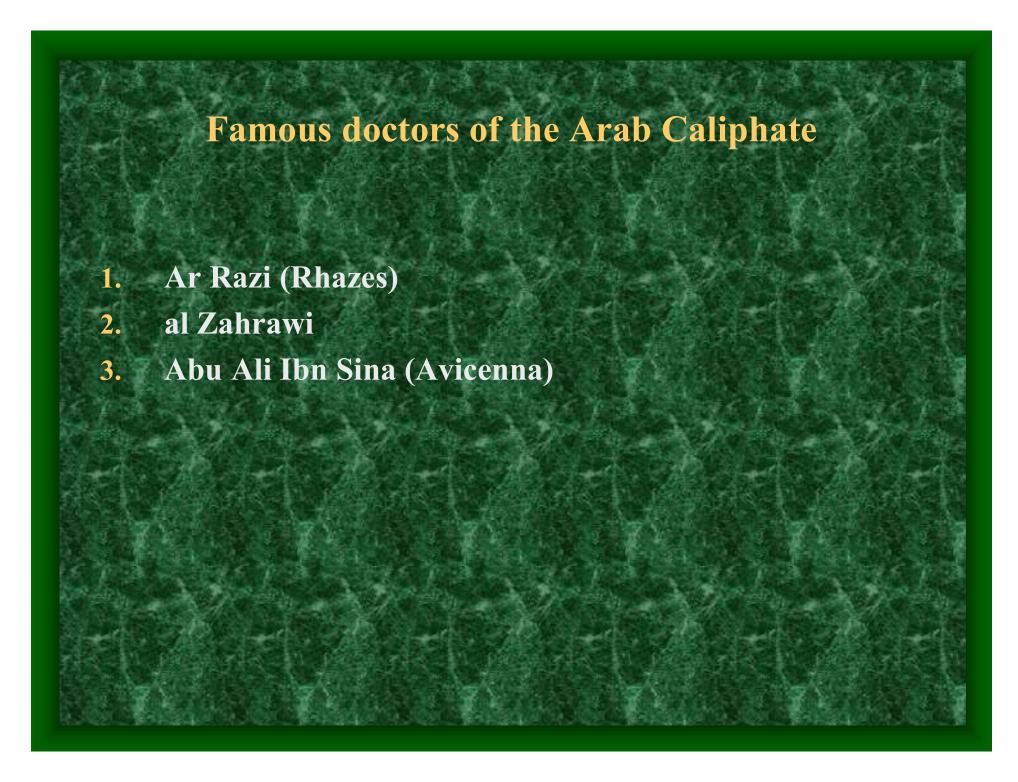
- Under the influence of ancient Greek knowledge formed the doctrine of 4 bodily juices.
- According to the ideas of the Arabs, each of the fluids involved in the creation of the 4 qualities: heat, cold, dryness and humidity that determine "mizadzh" (temperament) each person.
- Temperament can be normal if all the components is balanced



- Have chambers for the treatment of patients with the same disease.
- Department of the hospital were divided into male and female, surgical, to treat eye diseases in patients with fever, etc.
- At most hospitals have pharmacy The main feature of the hospitals rooms for lectures.

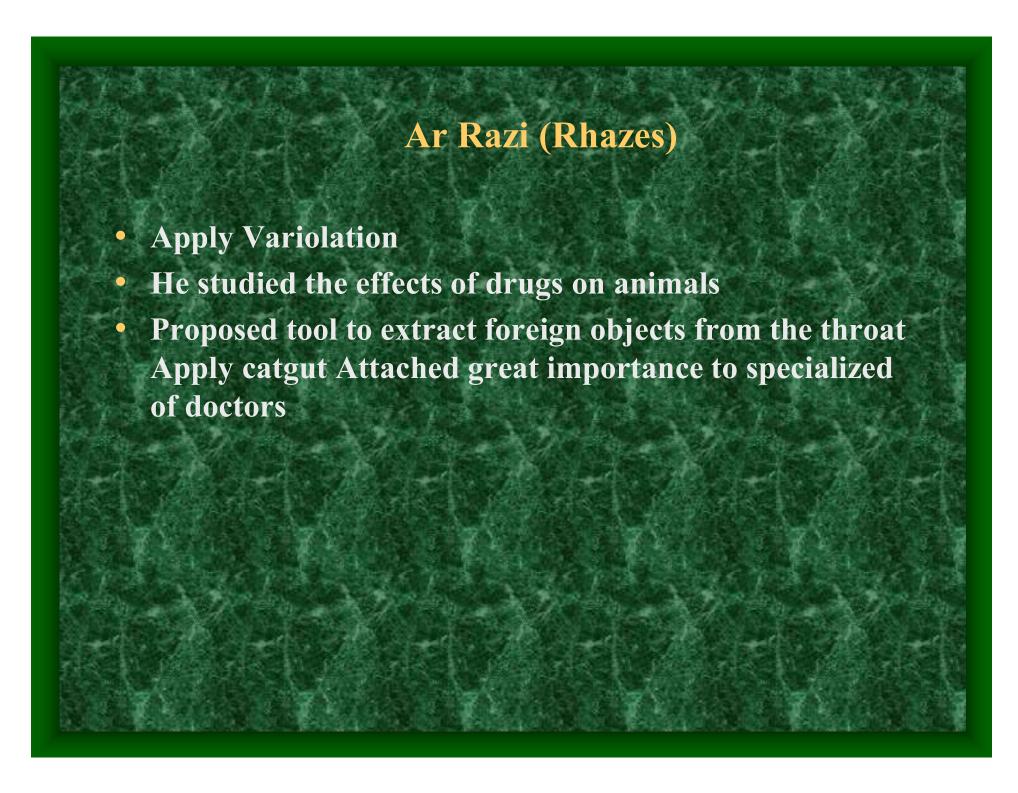


- Hospitals for the poor (providing from the funds the governor of the state)
- Small private hospitals (financed by private doctors and public figures)
- Military hospitals (moved with the troops and accommodated in tents)



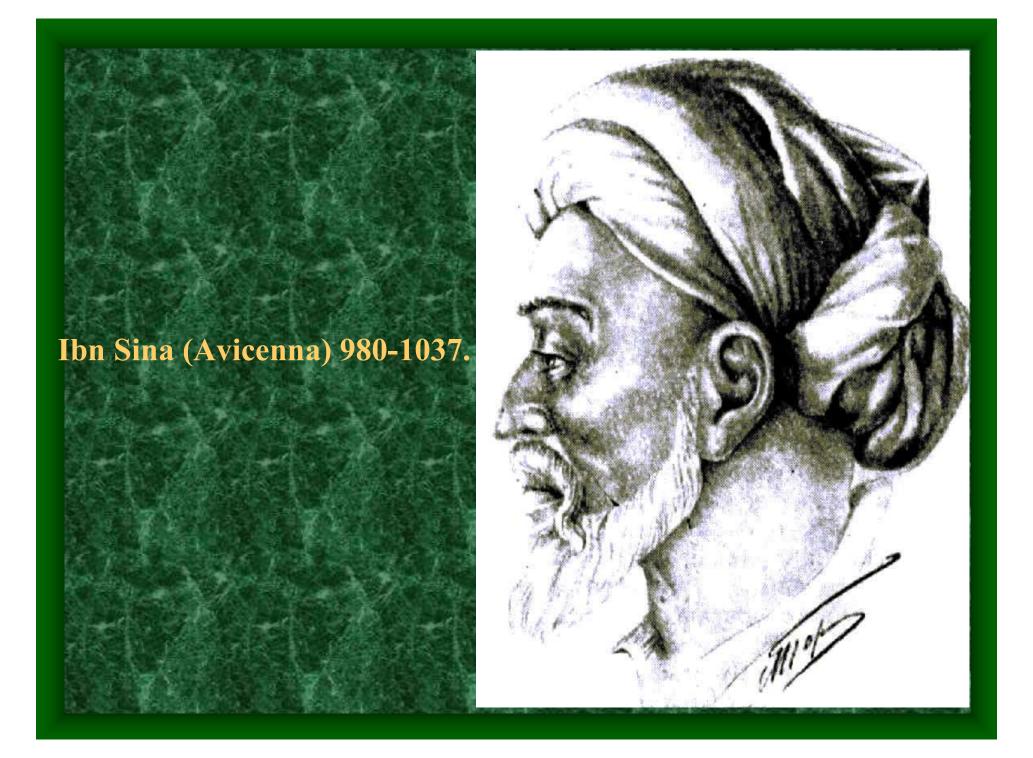


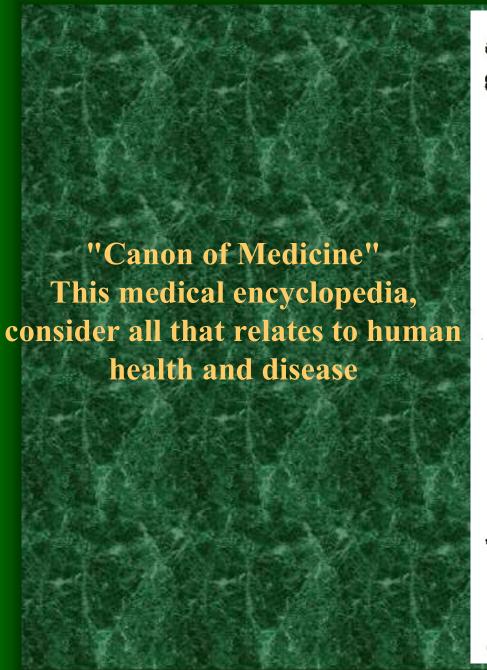
- He founded a hospital in Baghdad
- Organized by the school doctors combine theoretical training with hospital practice
- Author of over 200 works A comprehensive book on medicine (25 volumes)
- The work "On smallpox and measles"
- These books for a long time served as a textbook in the universities of Western Europe



Al Zahrawi - famous surgeon medieval caliphate

- Proposed lying position during operations on small pelvis
- Author of new surgical instruments
- Developed methodology cauterize blood vessels in the wound
- Wrote encyclopedic work on surgery
- After translating it into Latin in the XII century, it became a handbook of Surgeons in Medieval Europe







AVICENNÆ

LIBER CANONIS, DE MEDICINIS CORDIALIBUS, ET CANTICA

Cum calligationibus

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motate:



Cum privilegiis Summi Pontifieis, Francorum Regis, & Senatus Veneti.

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- This is the most important encyclopedia of medical knowledge of the ancient world
- It summarizes the experience of ancient Greek, Roman, Indian and Central Asian, doctors selected best medical practices
- Ibn Sina was not limited to retelling of the past, and made a critical analysis of medical knowledge that existed at the beginning of the XI century

Postulates of Medicine

AVICENNAE

Liber Canonis De Medicinis cordialibus Cantica

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in the XII century was translated from Arabic to Latin

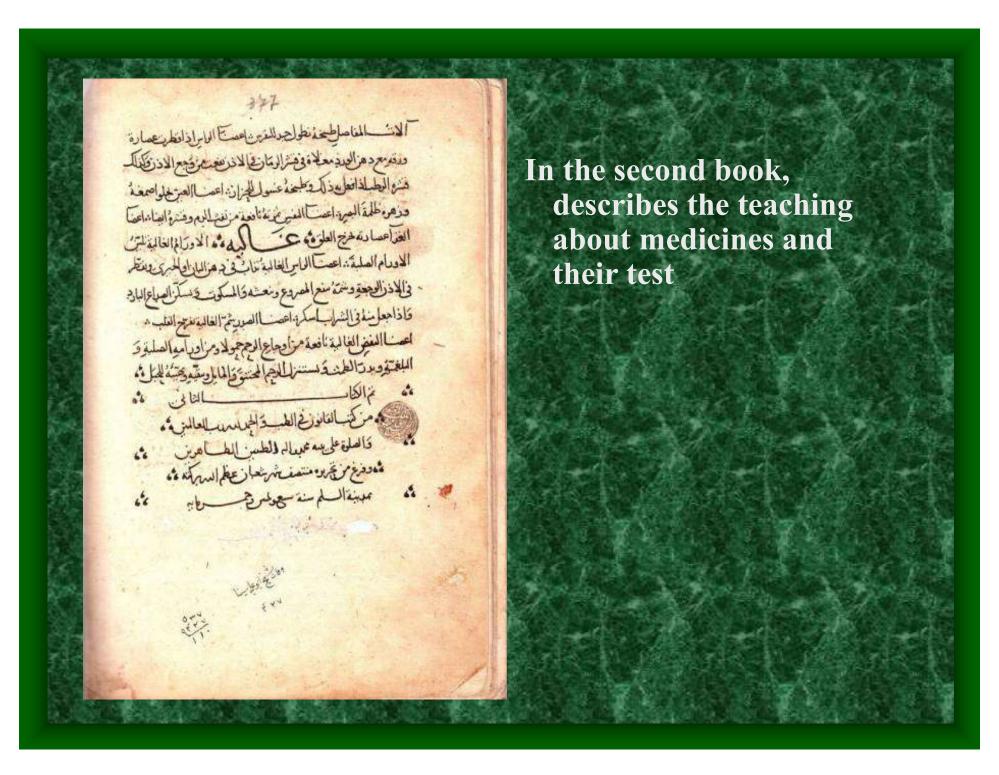
وبعدحداته والثناءعليه والضلئ على رسولة تحقدوالة هذه الكتب التي صنعناها في الطب التي الأول منها هوفي الاحكام الكلية من الطب وألفان منهاهوهذا الحكتاب الجموع في الذلية المفردة وقسمنا هذا الكتاب مقالتين الاول منهما ي القعانين الطبيعية التي بجب ال يعرف من ام الطب في عكاه وي الجزويه أماالاول فقسناها الىمنة فصول آفي تع فكالنزجة الادويه المزدة بيغ تعريف امزجة الادوبية المرده بالغربة ع في تعريف المزجة الادوية المزدة بالفياس حرية تعريف افغال قوي الادوبية المفردة كق في احكام بع ضلادية فيحارج في في القاط ألاد وبية وادخارها وليا التانية فان جعلت الادوية للفرة فيها الواحا آ الاساء الادوية المفردة وبتعريف ماهيأتها ب لاحتياد الحديد منهاع كذكر مستفياتها وطبايعها لالخوام افعالها واجوالها الكلسه مفال التحليل ومثل الانضاح والمغبيه والتحديروما اشد ذلك لها وجعلت لكار واحدمنها كتابه بصبع متى مالىقاطە قى نفالغ التي يتعلق بالزينه وعلمت على كل شي رخ

"Canon of Medicine" consists of 5 books

In the first book describes the theoretical medicine

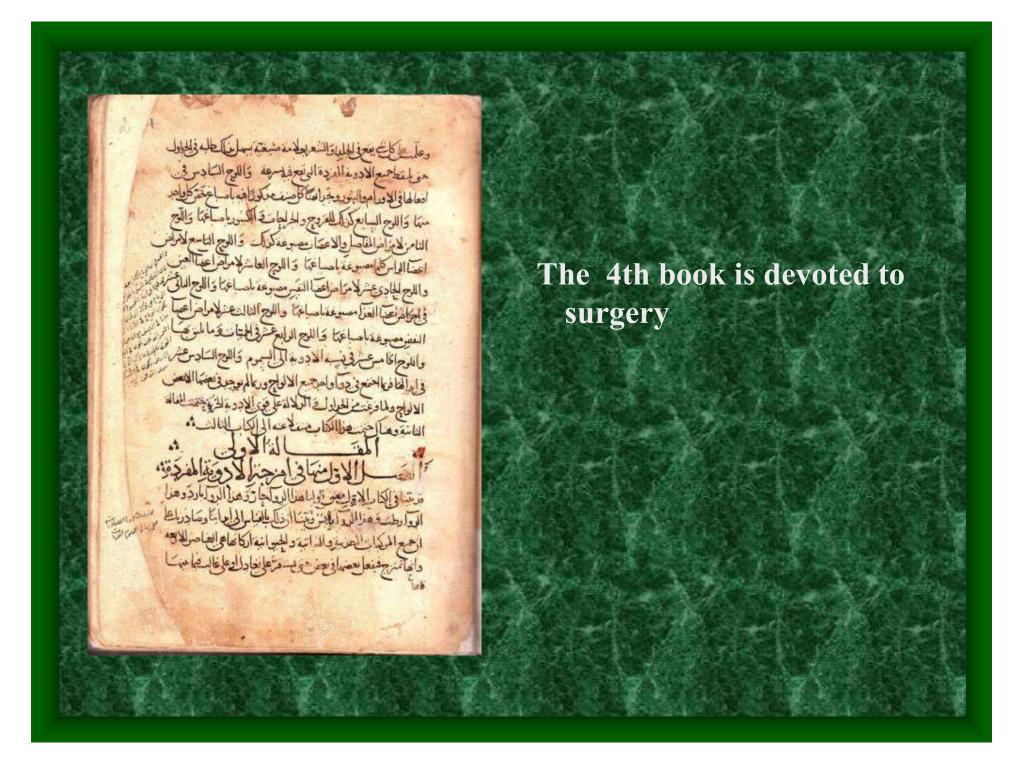


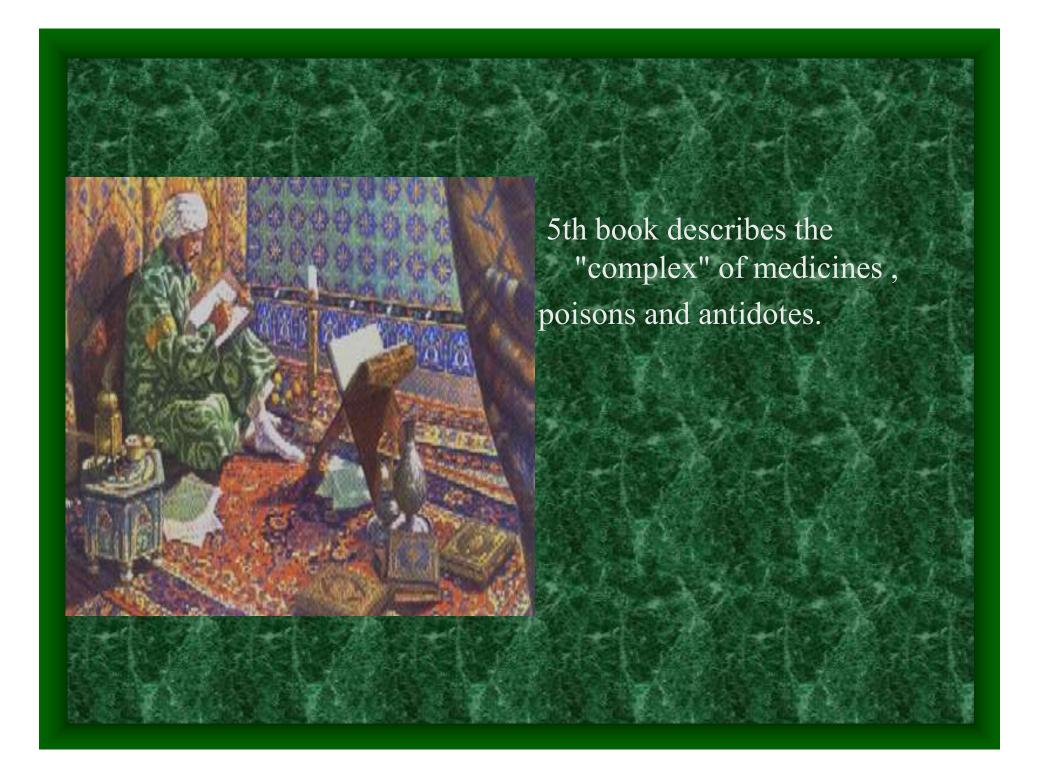
- The serenity of nature
- choice of food
- Get fit
- Improving what inhaled by nose
- Accommodation clothes
- The serenity of physical and mental state



فالمع اصالب طبزو والاخراد الطبيعة سيع احدها وتففر الع

The third book is devoted to the description of certain diseases and their treatment.

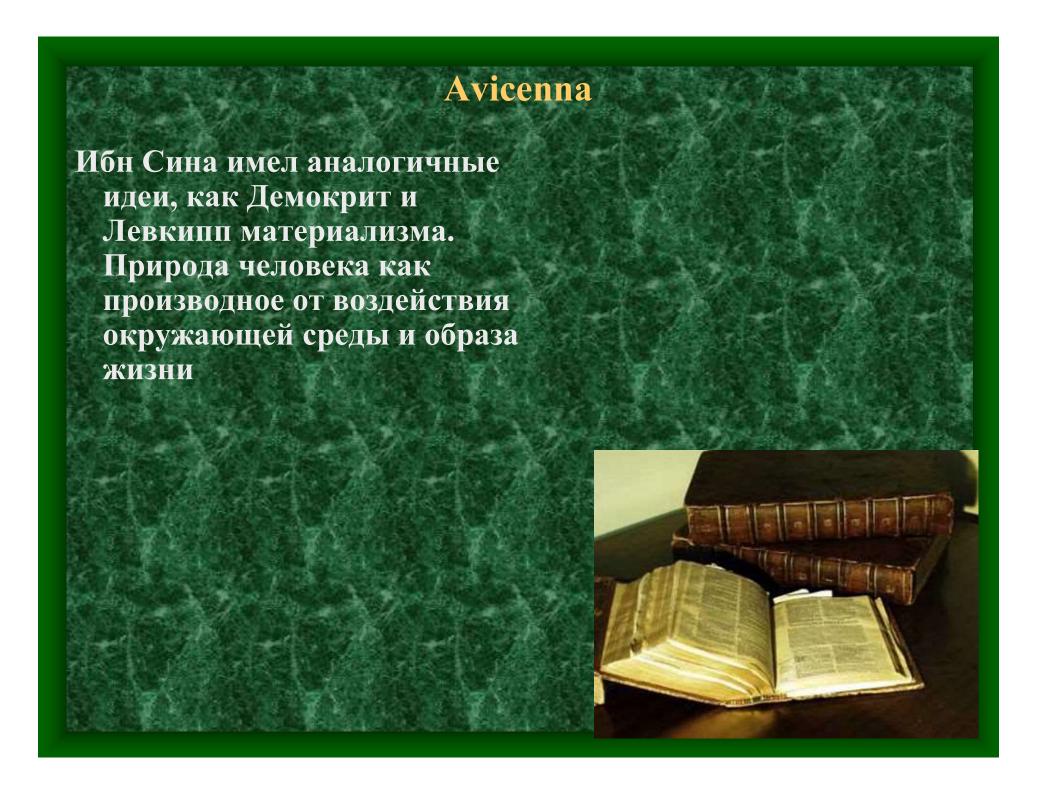






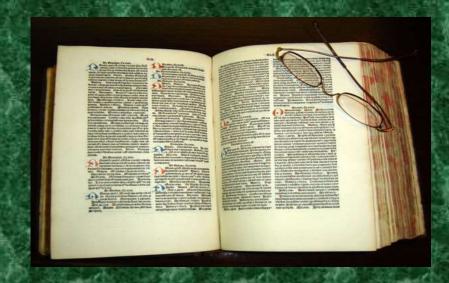
- Expressed the idea of invisible infectious agents
- Developed Dietetics section for children, adults and the elderly
- For the treatment of wounds recommended the use of wine
- He describes the symptoms of early cancer detection

- He offered several hundred new drugs of plant, animal and mineral origin
- He paid great importance to the experience as a method of knowledge
- He was engaged in disease prevention (advice on health protection)
- Tried distinguish between religion and science
- Rejected demonological ideas about the causes of nervous and mental diseases



Proceedings of Avicenna's philosophy





"The Book of rescue" ("Kitab al-Najat")

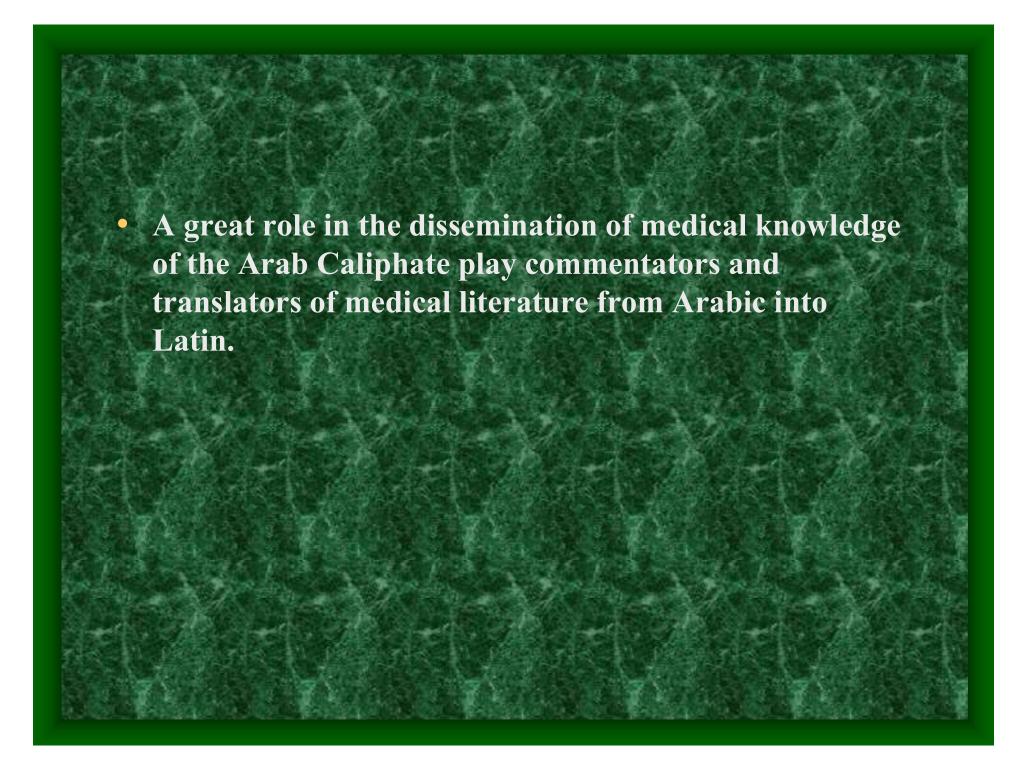
"Book of Knowledge" ("Danish-name")

"Book of Healing" ("Kitab al-Shifa")

"The Book of rescue" ("Kitab al-Najat")

"Guidelines and manuals" ("Al-Isharat Wat tanbihat")

"Book of Knowledge" ("Danish-name")





The dominant philosophy - scholasticism

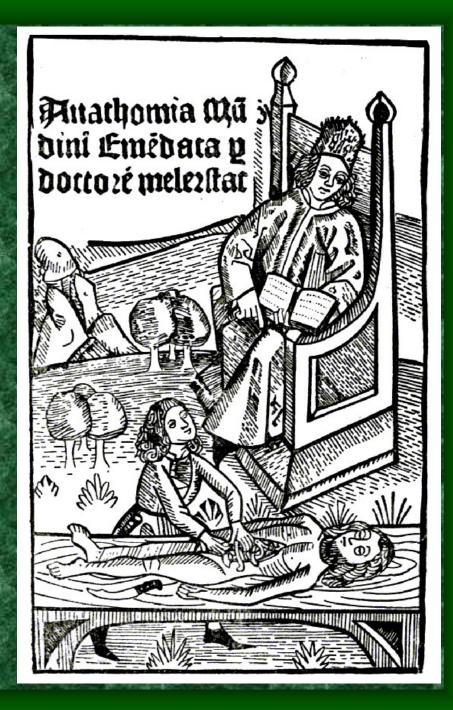
Scholastica is the idealist philosophy. All possible knowledge already given in Scripture or in the writings of the Church Fathers

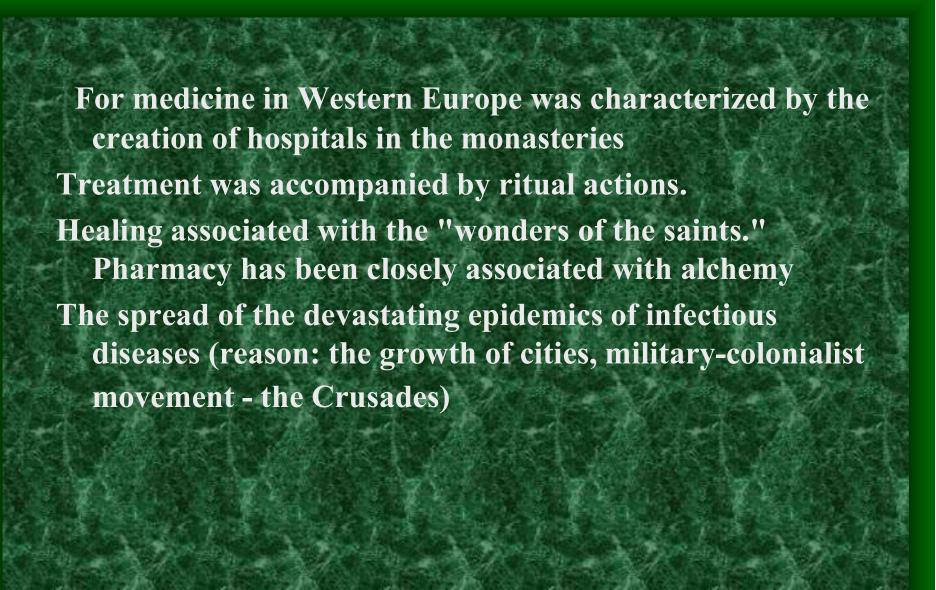
Center for Health Education in the Middle Ages were universities

- In the XI century appeared in the University of Salerno In the XI-XIII centuries. Bologna, Paris, Padua
- In the XIV century. In Prague, Vienna
- Charters and educational plans were controlled by the Catholic Church
- Methods of teaching and the nature of science were scholastic
- In the field of medicine famous ancient writers were Galen and Hippocrates

The weak development of anatomical knowledge

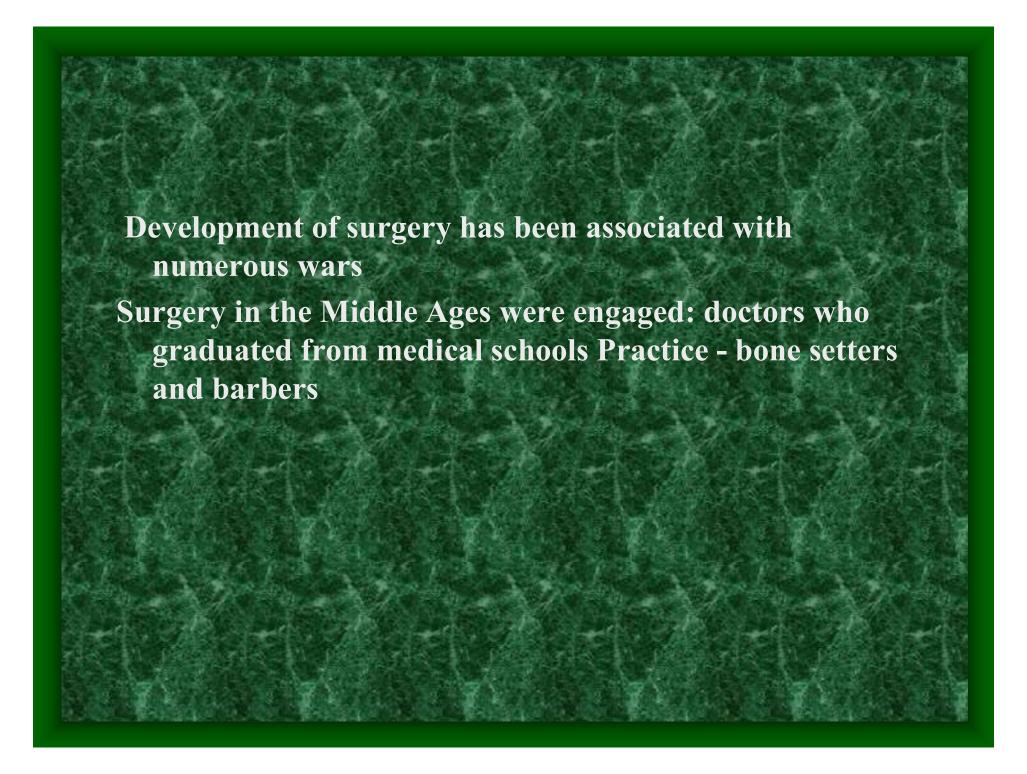
Mondino de Luzzi (1270-1325)







- sets quarantine
- Appointed the special port overseers "Trustees health"
- Introduces the "Regulations" special rules that had the purpose to prevent the spread of infectious diseases
- The city provided good drinking water



Ambroise Pare (1510-1590) the founder of surgery in Western Europe



Achievements of Ambroise Pare

- He summarizes the experience of medieval surgery
- He published a book about the treatment of gunshot wounds
- Improved technique of amputation
- Apply tying of large vessels in the wound
- He proposed complex orthopedic devices artificial limbs, joints





