

# HISTORY OF PHARMACY AND DEONTOLOGY

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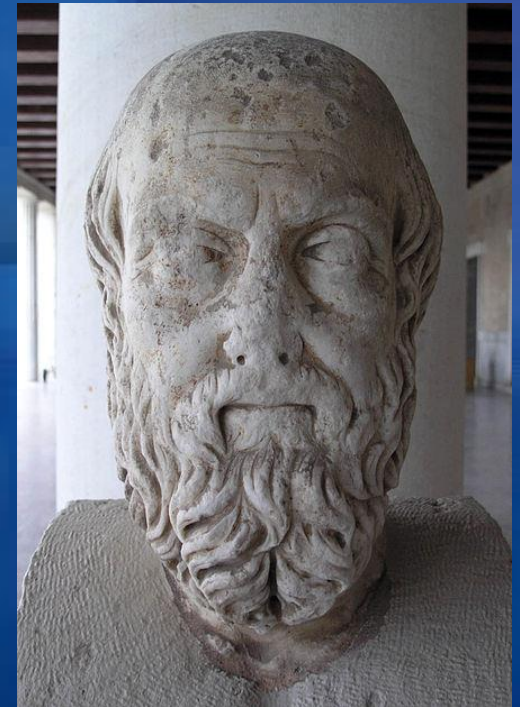
The background is a detailed wall painting from an ancient Egyptian tomb. The upper register shows a man in a leopard-print kilt on the left, and a woman in a white dress and a headdress with a lotus flower on the right. They are surrounded by other figures, some holding jars. The lower register shows a bull and a calf on the left, and two men carrying jars on the right. In the background, there are several tables with jars and a large structure with a pointed top. The entire scene is framed by columns of hieroglyphs.

# PHARMACY PRACTICES IN ANCIENT EGYPT

- **Ancient Egyptians conceived health and sickness as an unceasing fight between good and evil.**
- **According to historical records, ancient Egyptians involved in the medical and pharmaceutical profession used to read certain magics or spells while preparing or administering medications.**
- **Physicians highly respected and very specialized.**

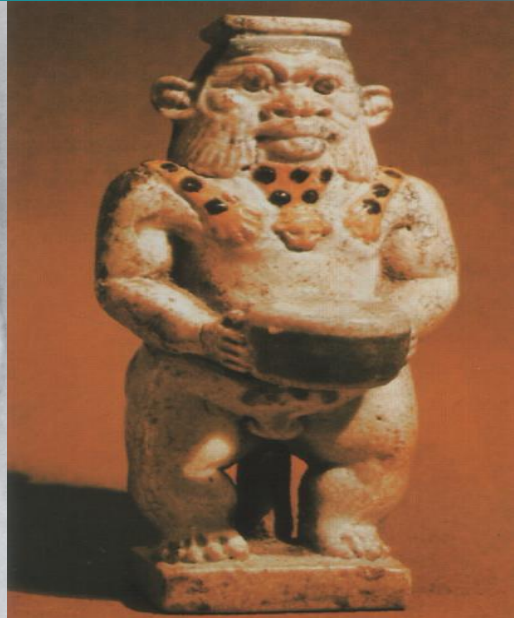
# Information Resources

- Information from **HEREDOTUS** (*ancient Greek historian and writer.*)
- Excavations (pyramids, papyrus, mummies, baroliyef, stone reliefs, Hermetic boks)





# Pyramids

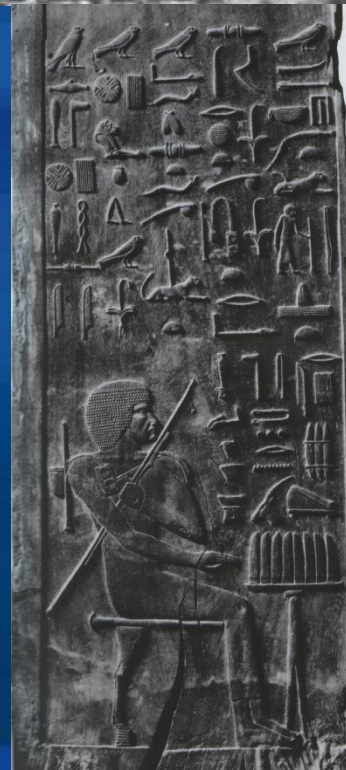


Items and tools in  
pyramids





**Writings and paintings from burial chambers**

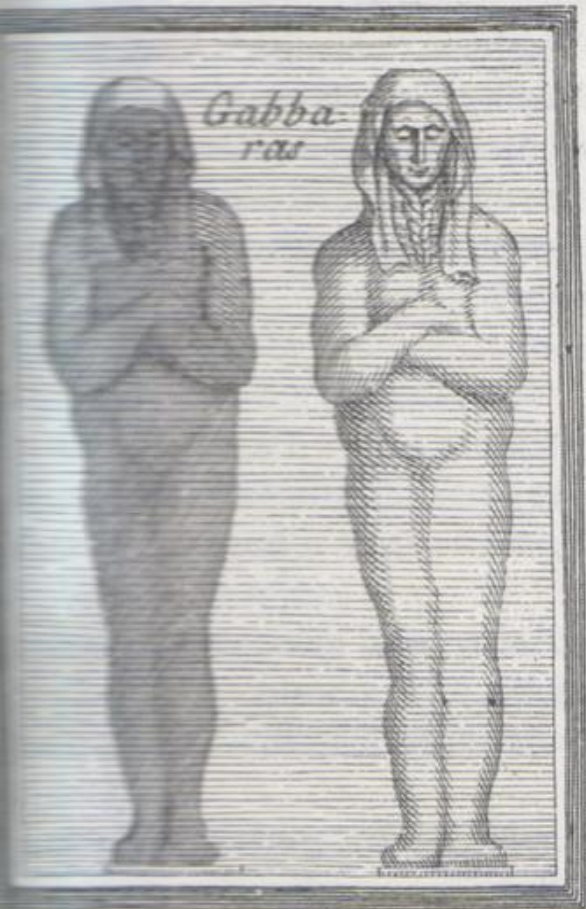






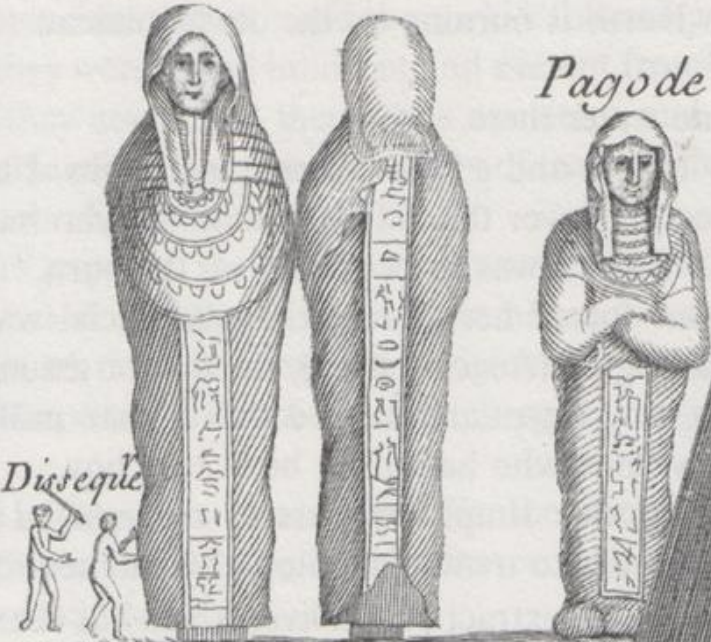


# Mummies



Gabbarat

Mumies le Derriere



Pagode

Dissequé



Embaumeur



Corps Embeaume

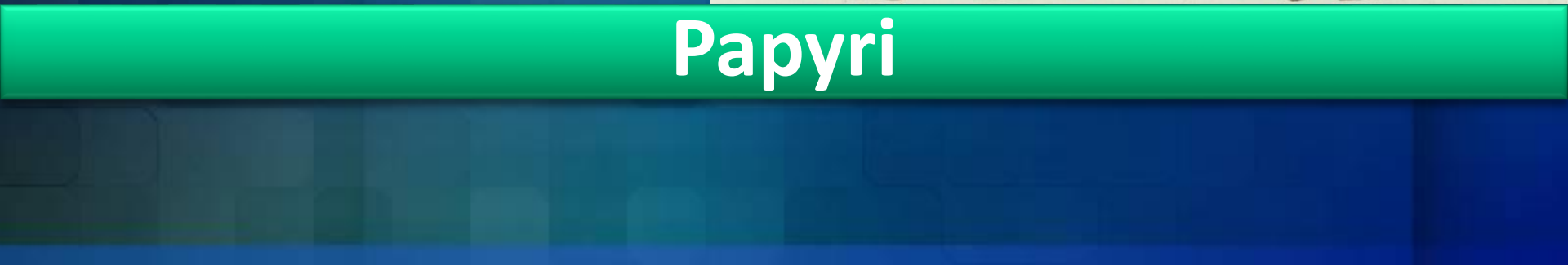


Piramides d'Egipte

Handwritten text in an ancient script, likely Egyptian hieroglyphs, arranged in columns. The text is dense and covers most of the page. There are some larger characters and symbols interspersed among the smaller ones. The script is written in black ink on a light-colored background.

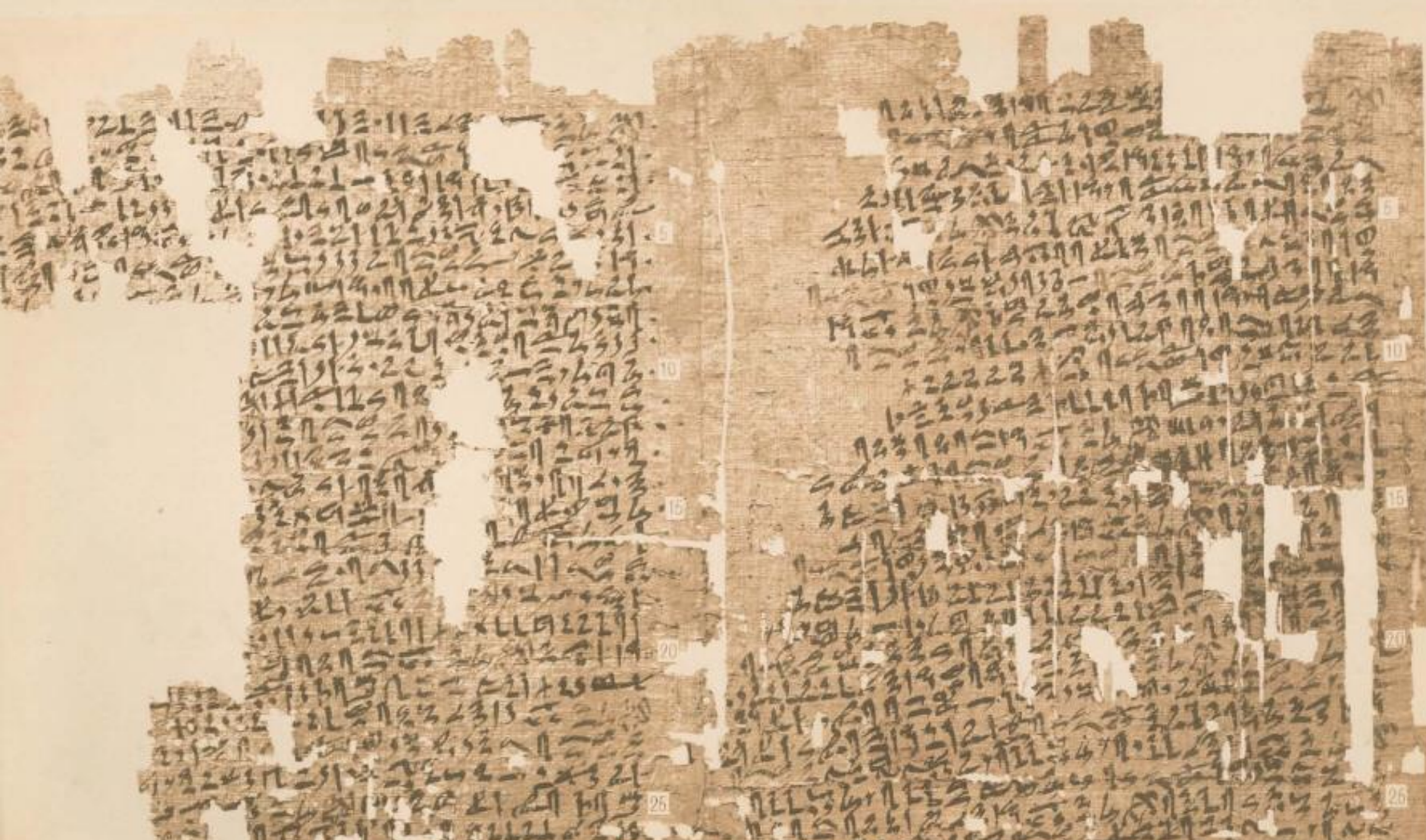


Papyri



- **Kahun Gynecological Papyrus (gynecology, veterinary and mathematics)**
- **Edwin Smith Papyrus (the oldest document on surgery in the world)**
- **Ebers Papyrus (includes almost 700 recipes)**
- **Hearst Papyrus (Contains information on bladder, blood and hair problems, insect bites, fracture dislocation)**
- **Berlin Medical Papyrus**
- **Newyork Medical Papyrus**

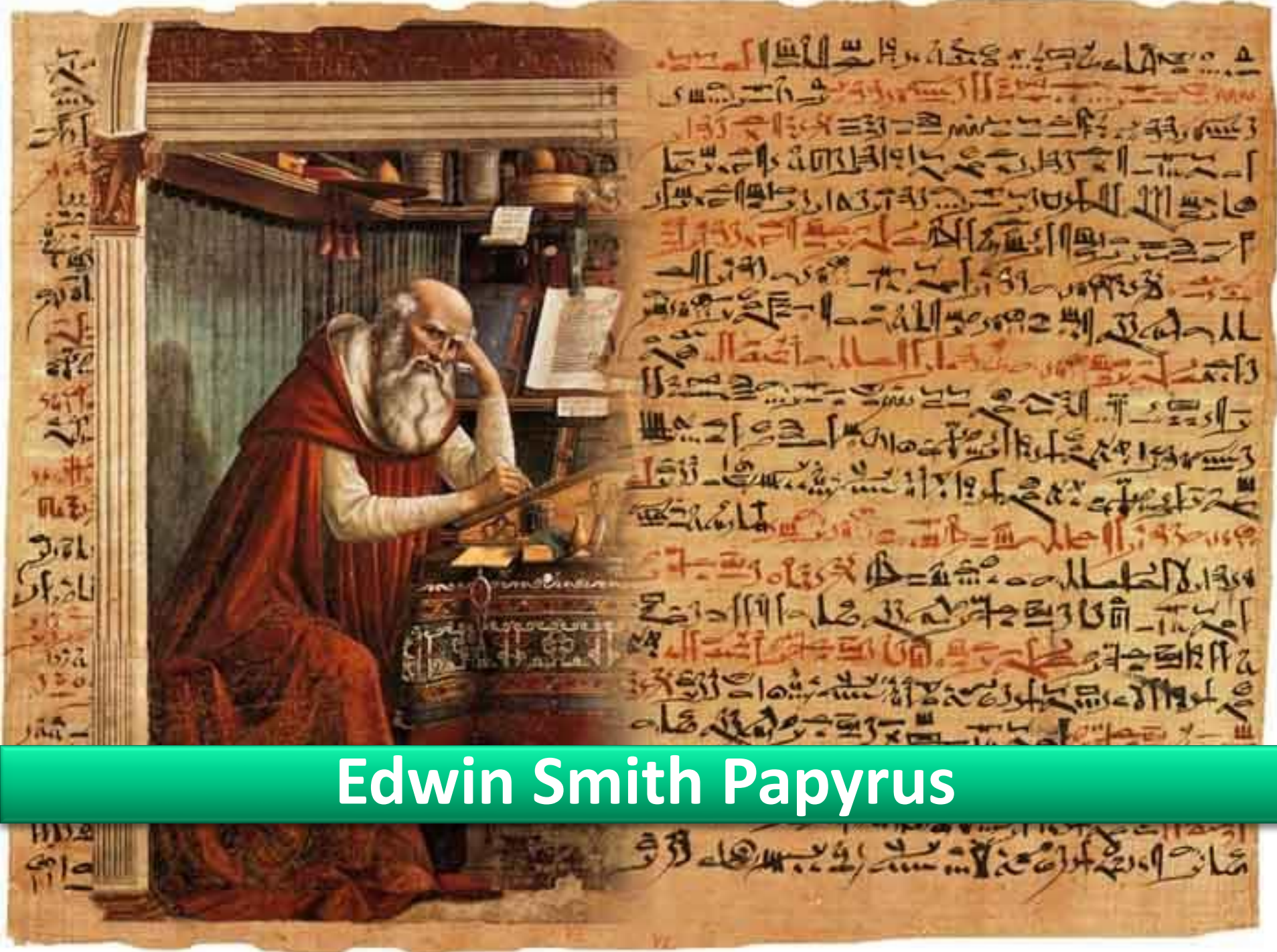




# Kahun Gynecological Papyrus

VI. 1. MEDICAL PAPYRUS. PAGES 1, 2.

PL. V



# Edwin Smith Papyrus

11  
Handwritten text in Egyptian hieroglyphs, arranged in columns. The script is dense and covers most of the page area.

1  
Handwritten text in Egyptian hieroglyphs, arranged in columns. The script is dense and covers most of the page area.

Ebers Papyrus

# Reasons of the Diseases in Ancient Egypt



**A sick person was one out of the harmony with the World.**

**He had bothered the gods, the dead, or the spirits.**





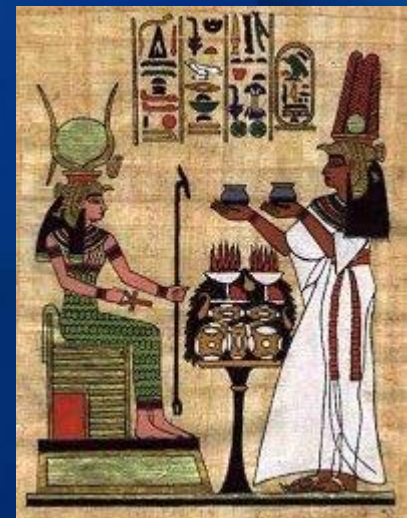
- **Additionally;**

- Helminths or parasitic worms were believed to cause lots of the diseases,
- Accumulation of nutrients in some parts of the body was held responsible for the diseases,
- Imbalance in pnöma (In ancient times, the substance or a soul which is believed to be the source of life, is found in the veins of living things) is a cause of the diseases.

# Treatment Types in Ancient Egypt

## Mystical Treatment

- RA (The God of Sun)
- THOTH (The God of Wise)
- ISIS
- SEKHMET (The God of Birth)
- HORUS (The God of Sky/Healing)
- IMHOTEP (B.C. 2900)
- HERMETIC BOOKS



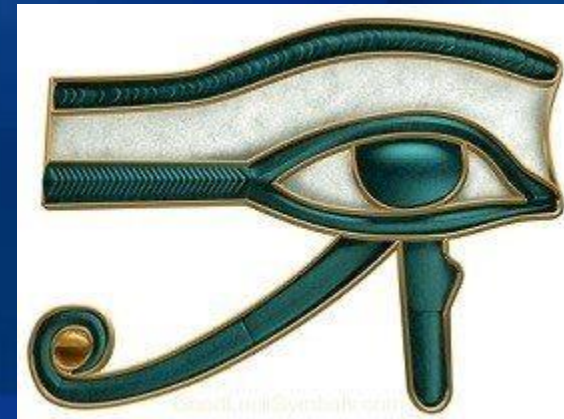
# Horus (the God of Sky)

The Egyptians regarded Horus as the father of medicine. Horus was the son of the two primary Egyptian deities called Osiris and Isis.

Horus is depicted with falcon head.



- "*The Eye of Horus* (or 'udjat') is an ancient Egyptian symbol of protection, royal power, and good health.



His right eye was associated with the sun god, Ra. The mirror image, or left eye, sometimes represented the moon and the god Djehuti (Thoth).

In one myth, when Seth (Osiris's brother) and Horus were fighting after Osiris's death, Seth gouged out Horus's left eye. The majority of the eye was restored by Thoth (with the last portion possibly being supplied magically). When Horus's eye was recovered, he offered it to his father, Osiris, in hopes of restoring his life. Hence, the eye of Horus was often used to symbolise sacrifice, healing, restoration, and protection.

In another belief the sun and moon are always endless day and night. Thus the eyes of Horus that remain open 24 hours a day represents that nothing will escape from the eyes of conscience and will never close at all for 24 hours.

# Isis (Queen of the Gods)



# Imhotep



**He was a good physician in Egypt. He used modern medicine centuries before Hippocrates known as the father of medicine.**

# Hermetic Books

- The records concerning Egyptian pharmacy are preserved in the so-called "**Hermetic books**" of Thoth-the Egyptian Hermes-the discoverer of sciences and arts.



- Only six of these forty-two holy books are of medical import.





# Empirical Treatment

- **Magicians;** Today's psychotherapists
- **Sekhmet Priests And Physicians;**  
Representatives of the health god
- **Sinu;** use empirical treatment

## Scientific Treatment

- Ancient Egyptian physicians knew that the body had a pulse, and that it was associated with the function of the heart.
- Medical research involves observation.
- Various animal and vegetable substances were in general use as medicines.

# EYGYPT'S CONTRIBUTIONS TO THE PHARMACUTICALS

- Besides simple drug formulations, combined formulation.
- Materials used in drug production were supplied from domestic and abroad.
- Details in prescriptions (quantity and preparation of substances).
- Many dosage forms were found.
- Animal, herbal and mineral drugs
- Medicines were exhibited in the form of ointments, plasters, washes for wounds, poultices, enemata, decoctions, and pills.
- Physicians has started to specialized.



**See you next  
week...**