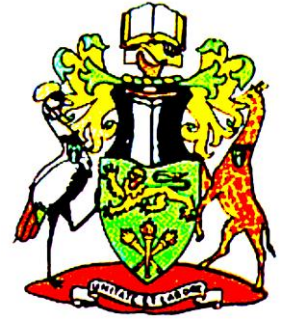




UNIVERSITY OF NAIROBI



# INTRODUCTION TO OPHTHALMOLOGY

---

DR. KAHAKI KIMANI

# OUTLINE

- Definition
- Expectations
- Teaching methods
- Career in Ophthalmology

# Definition

- Ophthalmology: The branch of medicine concerned with the study and treatment of disorders and diseases of the eye.
- Ophthalmologist: A physician who specializes in *ophthalmology*.

# History of Ophthalmology

- Earliest records: code of Hammurabi on rewards and penalties for physicians, 2000BC
- Egyptian records: 1500BC – treatment of eye diseases by incantations and applications of various concoctions, epilation.
- Hippocrates: discarded supernatural beliefs but no advancement in ophthalmology

# History cont

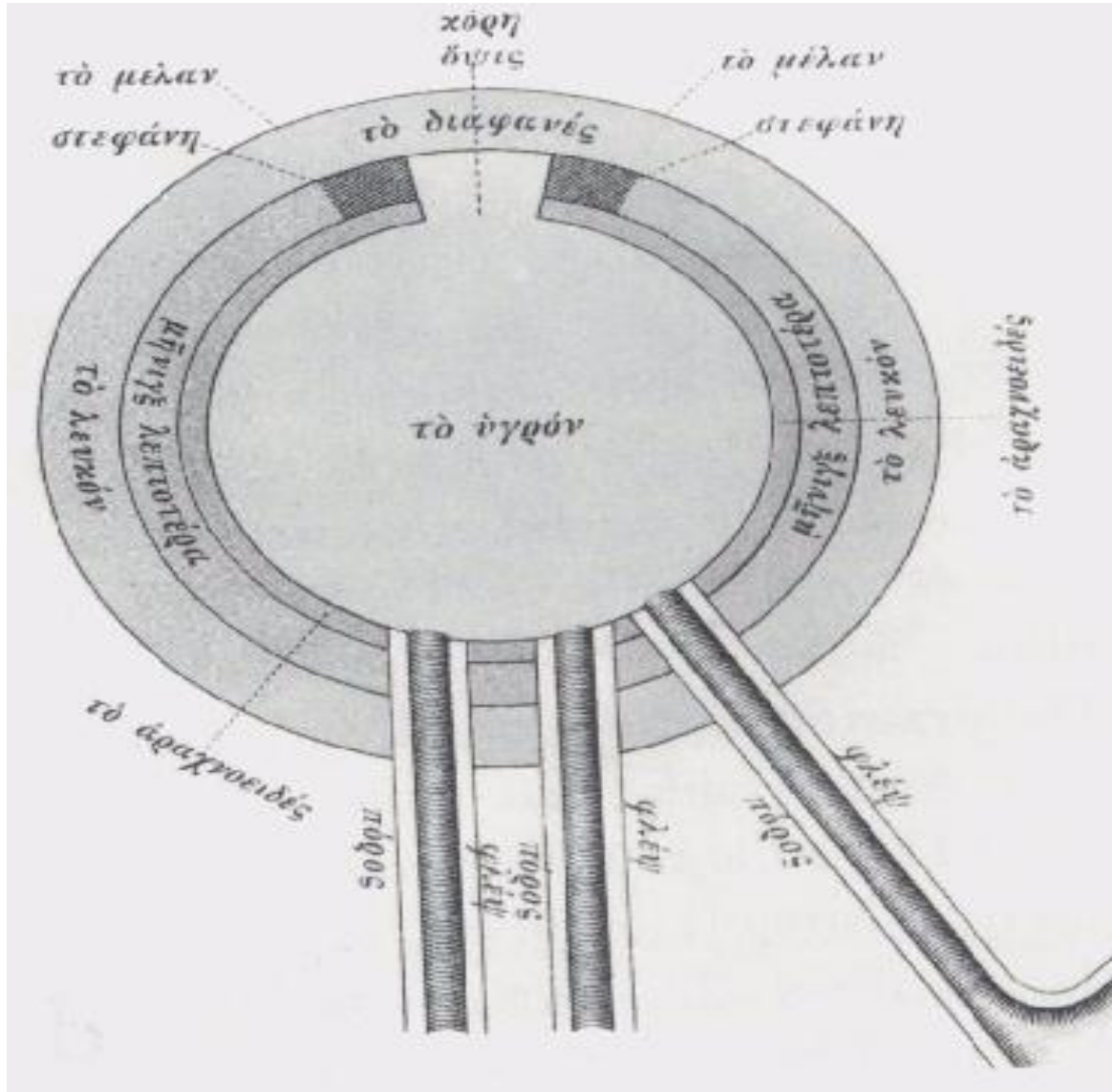
- Galen: anatomy of the eye
- Arabian renaissance – translated Greek texts to Arabic but perpetuated errors
- Western Middle Ages – translation of Arabic text to Latin, 11<sup>th</sup> century by Constantinus Africanus
- Benevenutus Grassus – book on eye diseases

# History cont

- Roger Bacon: crossing of the optic nerves at the chiasma, first mention of convex lenses for presbyopia.
- Leonardo da Vinci close to realizing the principle of the *camera* as applied to the eye.

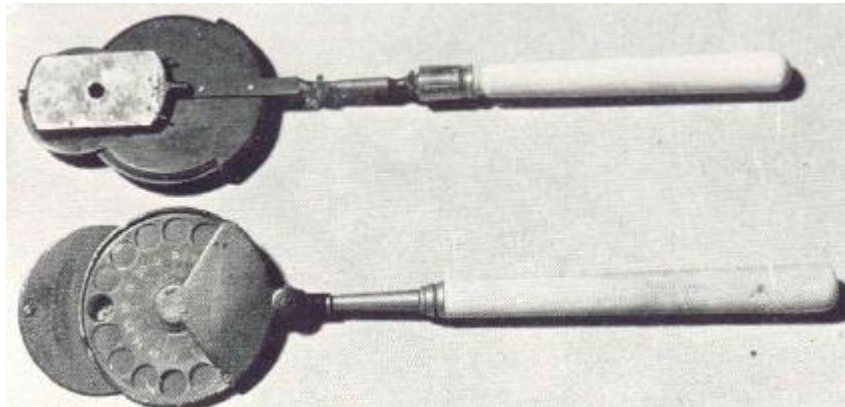


# How the eye was thought to work



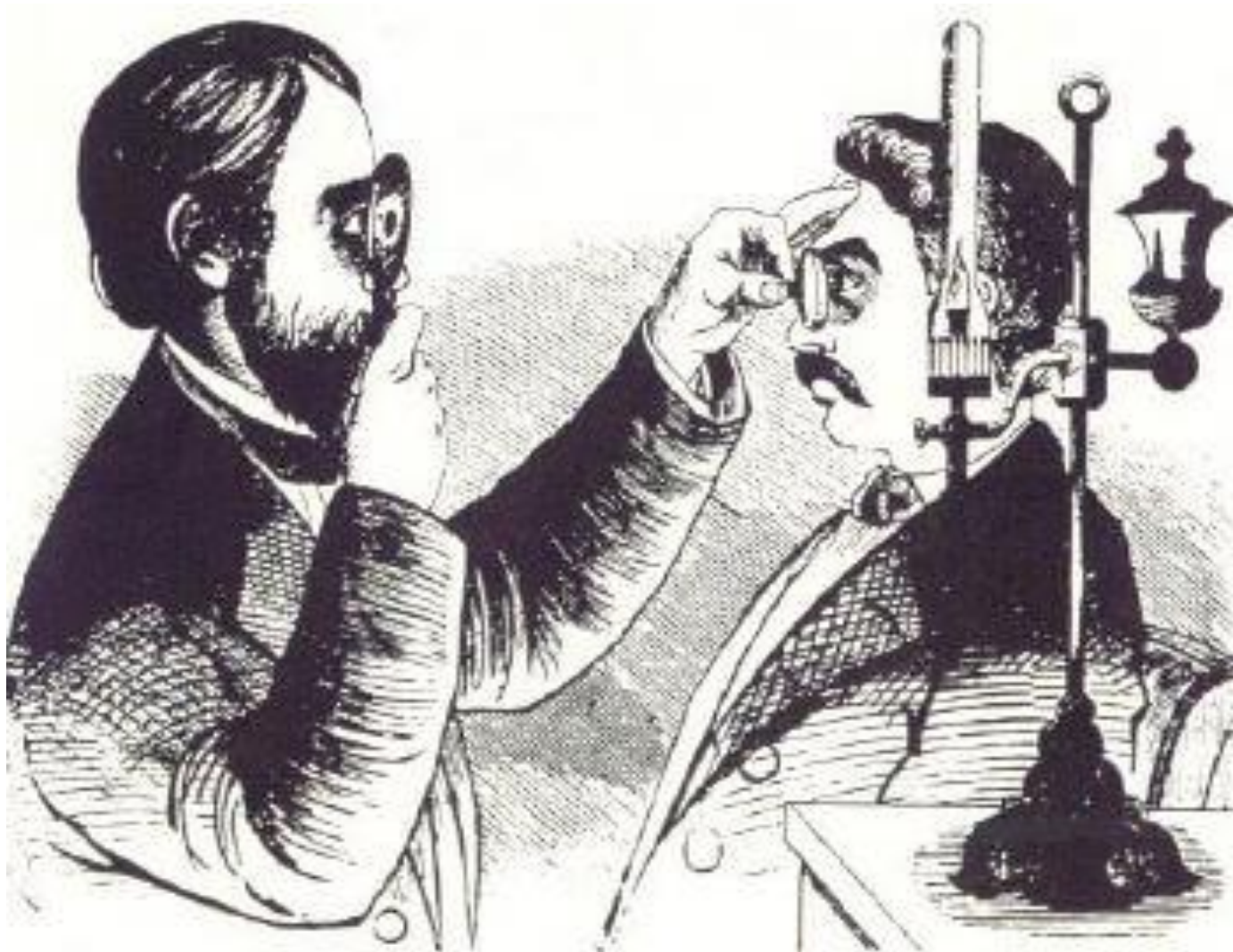
# History cont

- Modern period: 16<sup>th</sup> and 17<sup>th</sup> Century – better understanding of anatomy of eye and mechanism of vision
- 19<sup>th</sup> century – marked progress; surgery, invention of ophthalmoscope, elevation of ophthalmology to the most exact of clinical studies.





# Fundoscopy



# Early glasses



# OBJECTIVES

- Understand the basic anatomy and physiology of the eye
- Understand the pathology of common eye disorders
- Be able to take accurate history of a patient with an eye complaint
- Be able to assess visual acuity and examine the eye using a torch and a direct ophthalmoscope

# Objectives cont.

- Be able to diagnose common eye disorders
- Be able to treat simple eye disorders
- Recognize and refer eye disorders that need referral
- Recognize systemic diseases that can lead to eye disorders and advice the patient appropriately as well as refer.

# Academic Staff

- Prof Ilako
  - Prof Karimurio
  - Dr Gichuhi
  - Dr Kimani
  - Dr Njuguna
  - Dr Kariuki
- Dr Marco  
Dr Nyenze  
Dr Njambi  
Dr Gachago  
Dr Nyamori

# Ophthalmology as a Career

- Very rewarding
- 3 years post graduate training
- Scholarship opportunities available
- One the best run training programs in UON
- Opportunities to sub-specialize
- Ever changing technology – exciting

# Outreach











