Hospitals in the Golden Era of Muslim History

(Disclaimer: This is not an original research article from IJP, this very informative piece of information is almost entirely taken from Wikipedia;

https://en.wikipedia.org/wiki/Islamic_Golden_Age for which we thank Wikipedia and its contributors. We do not 100% agree what's written here but we considered it quite useful and informative. We have serious objection on distortion of names of Muslim Scientists and their books as well as on not acknowledging some of the facts; for example it was Christian translators who automatically translated their work into Arabic but it was Ma'moon Rashid's "House of Wisdom" which collected all the scientific work then present and carried out painstaking translation of all the work, analyzing it and rejecting what was wrong or unscientific and retained what was considered to be correct on scientific merit. Turning Ibn-e-Sina into Avicenna and translating his book as Canon of Medicine rather than "Law (Qa'noon) of Medicine" reflect ignorance and \or prejudice... Editors)



Entrance to the Qawaloon complex which housed the notable Qawaloon hospital in Cairo

The earliest known Islamic hospital was built in 805 in Baghdad by order of Harun Al-Rashid, and the most important of Baghdad's hospitals was established in 982 by the Buyid ruler 'Adud al-Dawla.¹The best documented early Islamic hospitals are the great Syro-Egyptian establishments of the 12th and 13th centuries.¹ By the tenth century, Baghdad had five more hospitals, while Damascus had six hospitals by

the 15th century and Córdoba alone had 50 major hospitals, many exclusively for the military.²

The typical hospital was divided into departments such as systemic diseases, surgery, and orthopedics, with larger hospitals having more diverse specialties. "Systemic diseases" was the rough equivalent of today's internal medicine and was further divided into sections such as fever, infections and digestive issues. Every department had an officer-in-charge, a presiding officer and a supervising specialist. The hospitals also had lecture theaters and libraries. Hospitals staff included sanitary inspectors, who regulated cleanliness, and accountants and other administrative staff.2The hospitals were typically run by a three-man board comprising a non-medical administrator, the chief pharmacist, called the shaykh saydalani, who was equal in rank to the chief physician, who served as mutwalli (dean).3 Medical facilities traditionally closed each night, but by the 10th century laws were passed to keep hospitals open 24 hours a day.4

For less serious cases, physicians staffed outpatient clinics. Cities also had first aid centers staffed by physicians for emergencies that were often located in busy public places, such as big gatherings for Friday prayers. The region also had mobile units staffed by doctors and pharmacists who were supposed to meet the need of remote communities. Baghdad was also known to have a separate hospital for convicts since the early 10th century after the vizier 'Ali ibn Isa ibn Jarah ibn Thabit wrote to Baghdad's chief medical officer that "prisons must have their own doctors who should examine them every day". The first hospital built in Egypt, in Cairo's Southwestern quarter, was the first documented facility to care for mental illnesses. In Aleppo's Arghun Hospital, care for mental illness included abundant light, fresh air, running water and music.2

Medical students would accompany physicians and participate in patient care. Hospitals in this era were the first to require medical diplomas to license doctors. The licensing test was administered by the region's government appointed chief medical officer. The test had two steps; the first was to write a treatise, on the subject the candidate wished to obtain a certificate, of original research or commentary of existing texts, which they were encouraged to

scrutinize for errors. The second step was to answer questions in an interview with the chief medical officer. Physicians worked fixed hours and medical staff salaries were fixed by law. For regulating the quality of care and arbitrating cases, it is related that if a patient dies, their family presents the doctor's prescriptions to the chief physician who would judge if the death was natural or if it was by negligence, in which case the family would be entitled to compensation from the doctor. The hospitals had male and female quarters while some hospitals only saw men and other hospitals, staffed by women physicians, saw women.4While women only physicians practiced medicine, many largely focused on obstetrics.6

Hospitals were forbidden by law to turn away patients who were unable to pay. Eventually, charitable foundations called wagfs were formed to support hospitals, as well as schools.6Part of the state budget also went towards maintaining hospitals.5 While the services of the hospital were free for all citizens 5 and patients were sometimes given a small stipend to support recovery upon discharge, individual physicians occasionally charged fees.⁴ In a notable endowment, a 13th-century governor of Egypt Al-Qalawun ordained a foundation the Qalawun hospital that would contain a mosque and a chapel, separate wards for different diseases, a library for doctors and a pharmacy and the hospital is used today for ophthalmology.4The Qalawun hospital was based in a former Fatimid palace which had accommodation for 8,000 people" it served 4,000 patients daily."The waqf stated.8,10

"...The hospital shall keep all patients, men and women, until they are completely recovered. All costs are to be borne by the hospital whether the people come from afar or near, whether they are residents or foreigners, strong or weak, low or high, rich or poor, employed or unemployed, blind or sighted, physically or mentally ill, learned or illiterate. There are no conditions of consideration and payment, none is objected to or even indirectly hinted at for non-payment."

12Pharmacies

By the ninth century, there was a rapid expansion of private pharmacies in many Muslim cities. Initially, these were unregulated and managed by personnel of inconsistent quality. Decrees by Caliphs Al-Ma'mun and Al-Mu'tasim required examinations to license pharmacists and pharmacy students were trained in a combination of classroom exercises coupled with day-to-day practical experiences with drugs. To avoid conflicts of interest, doctors were

banned from owning or sharing ownership in a pharmacy. Pharmacies were periodically inspected by government inspectors called muhtasib, who checked to see that the medicines were mixed properly, not diluted and kept in clean jars. Violators were fined or beaten.³

Medicine

The theory of Humorism was largely dominant during this time. Arab physician Ibn Zuhr provided proof that scabies is caused by the itch mite and that it can be cured by removing the parasite without the need for purging, bleeding or other treatments called for by humorism, making a break with the humorism of Galen and Ibn Sina.8 Rhazes differentiated through careful observation diseases smallpox and measles, which were previously lumped together as a single disease caused rashes.13This was based on location and the time of the appearance of the symptoms and he also scaled the degree of severity and prognosis of infections according to the color and location of rashes.12 Al-Zahrawi was the first physician to describe an ectopic pregnancy, and the first physician to identify the hereditary nature of haemophilia.¹⁴ On hygienic practices, Rhazes, who was once asked to

On hygienic practices, Rhazes, who was once asked to choose the site for a new hospital in Baghdad, suspended pieces of meat at various points around the city, and recommended building the hospital at the location where the meat putrefied most slowly. For Islamic scholars, Indian & Greek physicians and medical researchers Sushruta, Galen, Mankah, Atreya, Hippocrates, Charaka,

and Agnivesa were pre-eminent authorities. 15 In order to make the Indian and Greek tradition more accessible, understandable, and teachable, Islamic scholars ordered and made more systematic the vast Indian and Greco-Roman medical knowledge by writing encyclopedias and summaries. Sometimes, past scholars were criticized, like Rhazes who criticized and refuted Galen's revered theories, most notably, the Theory of Humors and was thus accused of ignorance.16 It was through 12th-century Arabic translations that medieval Europe rediscovered Hellenic medicine, including the works of Galen and Hippocrates, and discovered ancient medicine, the Indian including works of Sushruta and Charaka. 17,18 Works such as Avicenna's (Ibn-e-Sina) The Canon of Medicine (The Law of Medicine) were translated into Latin and disseminated throughout Europe. During

the 15th and 16th centuries alone, The Canon of Medicine (The Law of Medicine) was published more than thirty-five times. It was used as a standard medical textbook through the 18th century in Europe.¹⁹

Surgery

Al-Zahrawi was a tenth century Arab physician. He is sometimes referred to as the "Father of surgery". ²⁰ He describes what is thought to be the first attempt at reduction mammaplasty for the management of gynaecomastia and the first mastectomy to treat breast cancer. ¹⁹, ²¹ He is credited with the performance of the first thyroidectomy. ²²

References

- Savage-Smith, Emilie, Klein-Franke, F. and Zhu, Ming (2012). "Tibb". In P. Bearman; Th. Bianquis; C.E. Bosworth; E. van Donzel; W.P. Heinrichs (eds.). Encyclopaedia of Islam (2nd ed.). Brill. doi:10.1163/1573-3912_islam_COM_1216.
- "The Islamic Roots of the Modern Hospital". aramcoworld.com. Archived from the original on 2017-03-21. Retrieved 20 March 2017.[better source needed]
- 3. "The Islamic roots of modern pharmacy". aramcoworld.com. Archived from the original on 2016-05-18. Retrieved 2016-05-28. [better source needed]
- Rise and spread of Islam. Gale. 2002. p. 419. ISBN 978-0-7876-4503-8.
- The Islamic Roots of the Modern Hospital". aramcoworld.com. Archived from the original on 2017-03-21. Retrieved 20 March 2017.
- Rise and spread of Islam. Gale. 2002. p. 419. ISBN 978-0-7876-4503-8.
- 7. Alatas, Syed Farid (2006). "From Jami'ah to University: Multiculturalism and Christian-Muslim Dialogue". Current Sociology. 54 (1): 112-32. doi:10.1177/0011392106058837.
- 8. "Pioneer Muslim Physicians". aramcoworld.com. Archived from the original on 2017-03-21. Retrieved 20 March 2017.[better source needed]
- 9. Philip Adler; Randall Pouwels (2007). World Civilizations. Cengage Learning. p. 198. ISBN 978-1-111-81056-6. Retrieved 1 June 2014.
- Bedi N. Şehsuvaroğlu (2012-04-24). "Bīmāristān". In P. Bearman; Th. Bianquis; C.E. Bosworth; et al. (eds.). Encyclopaedia of Islam (2nd ed.). Archived from the original on 2016-09-20. Retrieved 5 June 2014.
- Mohammad Amin Rodini (7 July 2012). "Medical Care in Islamic Tradition During the Middle Ages" (PDF). International Journal of Medicine and Molecular Medicine. Archived (PDF) from the original on 2013-10-25. Retrieved 9 June 2014.
- 12. "Abu Bakr Mohammad Ibn Zakariya al-Razi (Rhazes) (c. 865-925)". sciencemuseum.org.uk. Archived from the original on 2015-05-06. Retrieved May 31, 2015.
- "Rhazes Diagnostic Differentiation of Smallpox and Measles". ircmj.com. Archived from the original on August 15, 2015. Retrieved May 31, 2015.

- Cosman, Madeleine Pelner; Jones, Linda Gale (2008).
 Handbook to Life in the Medieval World. Handbook to Life Series. 2. Infobase Publishing. pp. 528–30. ISBN 978-0-8160-4887-8.
- Hajar, R (2013). "The Air of History (Part IV): Great Muslim Physicians Al Rhazes". Heart Views. 14 (2): 93– 95. doi:10.4103/1995-705X.115499. PMC 3752886. PMID 23983918.
- 16. Cyril Elgood, A Medical History of Persia and the Eastern Caliphate, (Cambridge University Press, 1951), p. 3.
- K. Mangathayaru (2013). Pharmacognosy: An Indian perspective. Pearson education. p. 54. ISBN 978-93-325-2026-4.
- 18. Lock, Stephen (2001). The Oxford Illustrated Companion to Medicine. Oxford University Press. p. 607. ISBN 978-0-19-262950-0.
- A.C. Brown, Jonathan (2014). Misquoting Muhammad: The Challenge and Choices of Interpreting the Prophet's Legacy. Oneworld Publications. p. 12. ISBN 978-1-78074-420-9.
- Pioneer Muslim Physicians". aramcoworld.com. Archived from the original on 2017-03-21. Retrieved 20 March 2017
- 21. Ahmad, Z. (St Thomas' Hospital) (2007), "Al-Zahrawi The Father of Surgery", ANZ Journal of Surgery, 77 (Suppl. 1): A83, doi:10.1111/j.1445-2197.2007.04130_8.x
- 22. Ignjatovic M: Overview of the history of thyroid surgery. Acta ChirIugosl 2003; 50: 9–36.

Further reading

- George Makdisi "Scholasticism and Humanism in Classical Islam and the Christian West". Journal of the American Oriental Society 109, no.2 (1982)
- Josef W. Meri (2005). Medieval Islamic Civilization: An Encyclopedia. Routledge. ISBN 0-415-96690-6. p. 1088.
- Tamara Sonn: Islam: A Brief History. Wiley 2011, ISBN 978-1-4443-5898-8, pp. 39-79 (online copy, p. 39, at Google Books)
- 4. Maurice Lombard: The Golden Age of Islam. American Elsevier 1975
- George Nicholas Atiyeh; John Richard Hayes (1992).
 The Genius of Arab Civilization. New York University Press. ISBN 0-8147-3485-5, 978-0-8147-3485-8. p. 306.
- Falagas, M. E.; Zarkadoulia, Effie A.; Samonis, George (1 August 2006). "Arab science in the golden age (750– 1258 C.E.) and today". The FASEB Journal. 20 (10): 1581–86. doi:10.1096/fj.06-0803ufm. PMID 16873881.
- Starr, S. Frederick (2015). Lost Enlightenment: Central Asia's Golden Age from the Arab Conquest to Tamerlane. Princeton University. ISBN 978-0-691-16585-1.
- Allsen, Thomas T. (2004). Culture and Conquest in Mongol Eurasia. Cambridge University Press. ISBN 978-0-521-60270-9.
- 9. Dario Fernandez-Morera (2015) The Myth of the Andalusian Paradise. Muslims, Christians, and Jews under Islamic Rule in Medieval Spain. ISI Books ISBN 978-1-61017-095-6 (hardback)