The role of stomach in neurological disorders: 1000 years historical background

Arman Zargaranab, Hossein Rezaeizadeh

Tehran University of Medical Sciences, Tehran; Shiraz University of Medical Sciences, Shiraz, Iran

We read with great interest the published paper by J. Kountouras et al in the Annals of Gastroenterology [1]. The role of stomach and the rest of the gastrointestinal system in neurological disorders will be further clarified in the years to come. Theories like the “gut-brain” axis shed light on this relation [2], however, it seems that physicians in the past centuries believed in the role of stomach in neurological disorders.

Avicenna (980-1037 AD) (Fig. 1) was a great Persian physician who influenced the progress of medical sciences 1000 years ago. His medical encyclopedia, the Canon of Medicine, was one of the main medical textbooks in the western and eastern universities at least until the 17th century AD [3]. Avicenna believed that the stomach interacts with other organs causing various types of disorders including neurological diseases. He stated that, in many cases, neurological symptoms have gastrointestinal origins, meaning that gastrointestinal disorders affect the neural system causing symptoms. He wrote in the Canon of Medicine: “stomach [meaning the gastrointestinal tract] is involved in many head disorders”. Moreover, he stated that “gastrointestinal disorders can cause neurological diseases but not vice versa”. Avicenna believed flatulence affects other organs especially neurological disorders. Furthermore, he noted that other organs such as the bladder and the uterus, apart from the gastrointestinal system, could interact with the neural system and cause neurological diseases. He explained a brief differential diagnosis for them in his Canon of Medicine [4].

Avicenna’s words have thus proven valid in clinical practice, and his idea on the relationship between the gut and the brain shaped 1000 years ago, now called “gut-brain theory”, merits historical value.

References


‘Department of Traditional Pharmacy, School of Traditional Medicine, Tehran University of Medical Sciences, Tehran (Arman Zargaran); ^Research Office for the History of Persian Medicine, Shiraz University of Medical Sciences, Shiraz (Arman Zargaran);
‘Department of Traditional Medicine, School of Traditional Medicine, Tehran University of Medical Sciences, Tehran (Hosein Rezaeizadeh), Iran

Conflict of Interest: None

Correspondence to: Hosein Rezaeizadeh, Department of Traditional Medicine, School of Traditional Medicine, Vafamanesh str., Heravi Sq. 1417653761, Iran, e-mail: rezaeizadeh@sina.tums.ac.ir

Received 6 November 2015; accepted 9 November 2015

© 2016 Hellenic Society of Gastroenterology