

**System filozoficzno-lekarski Galena (130-200): pojęcie ciepła
przyrodzonego i pneumy życiowej**

**Galen's philosophical-medical system: The concept of inborn
heat and vital pneuma**

SUMMARY

The idea of connections between heat and life in the collection of *Corpus Hippocraticum* and in Plato's and Aristotle's works. The peculiarity of inborn heat in comparison with physical heat. Inborn heat as a regulative factor in nutrition processes of organisms. Galen's and Avicenna's gerontological conception (heat and *humiditas radicalis*). The quantitative and qualitative changes of inborn heat in the course of ontogeny. Interpretation of these changes from the point of view of Aristotelian theory of elements. The specific character of the Galenic concept of inborn heat reflects the specific nature of animal life. Inborn heat as a subject of regulation in the respiration processes. The heart is a principal source of inborn heat. Heat and the impulsive soul. Plants and inborn heat.

The historical development of the concept of pneuma (Diogenes of Apollonia, the *Corpus Hippocraticum*, Philistion of Locri, Plato, Aristotle, Zeno of Kition, Erasistratos, the Pneumatic school). The seat of vital pneuma is – according to Galen – the arterial part of the vascular system. The structure and the function of the vascular system: its venous and arterial parts presented as two separate systems. Polemics with C.R.S. Harris, J.J. Bylebyl and W. Pagel on this matter. Testimonia from Galen's works corroborate the view that substance in the venous artery moves in two directions – lungs to heart and heart to lungs – in consequence of mitral physiological regurgitation. The reconstruction of the concept of vital pneuma. Contradiction between the concept of vital pneuma and that of the arterial blood in Galen's medical system. The function of respiration is moderation of inborn heat. Participation of vital pneuma and the pulse of arteries in this process. The heart is a seat of the impulsive soul; the sphygmological method of diagnosis in the soul diseases. Objective and subjective interpretations of the concept of the impulsive soul. The position of the impulsive soul in the hierarchy of three souls (rational, impulsive and concupiscent).