

# Infusion therapy in neurology and neurosurgery: updated modern recommendations

S.M. Nedashkivskiy, O.A. Halushko

National Medical Academy of Postgraduate Education named after P.L. Shupyk, Kyiv

**Conflict of interests:** none

**BACKGROUND.** Intensive care with adequate, balanced, accurately calculated and safe infusion therapy (IT) is one of the methods of solving problems that are encountered by neurologists and neurosurgeons. The role of IT in the treatment of the patient, its volume and composition depend on a wide variety of circumstances: the patient's general baseline a lack of information on IT for doctors in various specialties.

**OBJECTIVE.** To highlight the emergence of updated current IT recommendations in neurology and neurosurgery.

**RESULTS AND DISCUSSION.** In the beginning of 2020 the guide-book "Infusion Therapy in Neurology and Neurosurgery" (authors: M.E. Polishchuk, O.A. Halushko, M.I. Humeniuk, M.A. Trishchynska) was published. The pages of the manual contain information on pathophysiological prerequisites and principles of IT in neurological practice, rules and technical support for IT, gives a general description of the main infusion tools in the arsenal of the neurologist and neurosurgeon. The manual describes in detail the pathogenesis, clinic and intensive care of acute and chronic conditions in neurology and neurosurgery, in which one of the main methods of treatment is IT. The criteria of treatment effectiveness and the typical errors observed in clinical practice when using various IT programs of these conditions are highlighted.

**CONCLUSIONS.** The new handbook "Infusion Therapy in Neurology and Neurosurgery" (authors: M.E. Polishchuk, O.A. Halushko, M.I. Humeniuk, M.A. Trishchynska) will be a useful source of information for neurologists, neurosurgeons, anesthesiologists, doctors of intensive care units, as well as specialists of related specialties involved in the treatment of patients with a neurological profile.

**KEY WORDS:** infusion therapy, neurology, neurosurgery.

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