

Review of graduation qualifying thesis by Marshalko Darya Viktorovna, student of the 6th year at Faculty of Medicine, Saint Petersburg State University, entitled «Clinical significance of hyperhomocysteinemia in patients with abdominal obesity»

The relevance of the studied issue results from the facts that hyperhomocysteinemia is a relatively new cardiovascular risk factor, assessment of serum homocysteine level has not been fully introduced to routine clinical practice, and practitioners have not got yet accurate indications for performing this laboratory test. Thus, studying this issue is of significant theoretical and practical interest.

The thesis by Marshalko D. V. contains retrospective analysis of the results of checkup diagnostics of 170 patients (119 individuals with abdominal obesity and 51 individuals without it), including evaluation of serum homocysteine level. The number of patients and the comprehensiveness of clinical data correspond to the aim and objectives of the study. Statistical analysis has been carried out with the use of established methods that are relevant for the studied sample. All conclusions of the thesis are based on empirical evidence and, therefore, could be considered valid.

Theoretical value of the study is contained in the data on clinical and pathophysiological interconnections between abnormalities of homocysteine metabolism and other metabolic disorders, as well as on gender differences in metabolic disorders related to abdominal obesity. The data on the prevalence of hyperhomocysteinemia in contemporary Russian population have practical relevance, since serum level of homocysteine is influenced by genetic factors and lifestyle, so that extrapolation of the results of foreign studies is of limited significance. The study also represents an attempt to determine clinical and laboratory parameters associated with hyperhomocysteinemia. Further studies in this direction could lead to working out specific indications for evaluation of serum homocysteine level. Thus, this study is of significant interest to practitioners belonging to a broad spectrum of therapeutic specializations.

No critical remarks and comments on the content and the conclusions should be made. The structure and the format of the document correspond to the existing requirements.

Graduation qualifying thesis by Marshalko D. V. is executed at a high scientific level and deserves the highest mark.

Reviewer:

MD, PhD, therapist, SPb GBUZ City Polyclinic No. 99

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Manulenko V. V.

