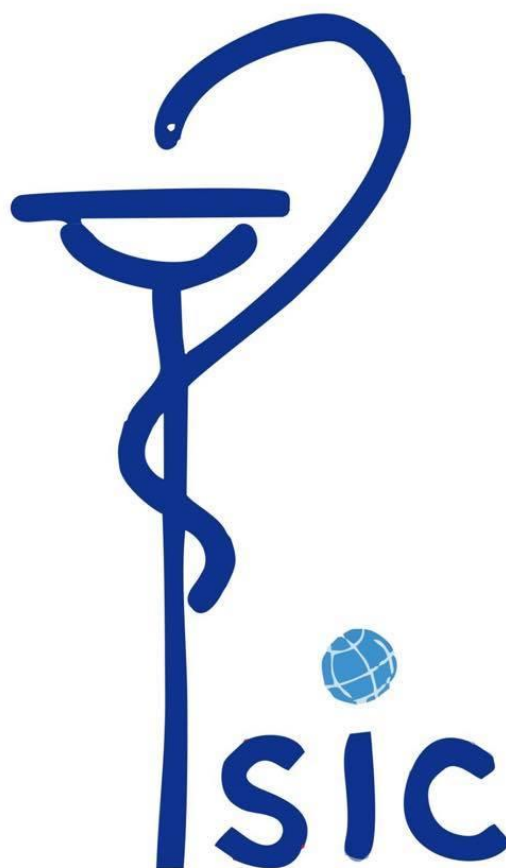




***IXth International Interdisciplinary
Scientific Conference of Young
Scientists and medical students
«Actual problems of clinical and
theoretical medicine»***

(International Scientific Interdisciplinary Conference – ISIC)

Kharkiv National Medical University - 2016



***Abstract Book Of 19th International
Interdisciplinary Scientific Conference Of
Young Scientists And Medical Students***

***«Actual Problems Of Clinical And
Theoretical Medicine»***



BIOMEDICAL SCIENCES





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**BODY MASS INDEX AS ONE OF THE MARKERS OF METABOLIC PROCESSES
IN BIOEQUIVALENCE STUDIES**

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Actuality. Today in Ukraine there are about 14 thousand drugs, about 90% of which are generics. The most convincing method to confirm their interchangeability are bioequivalence studies.

In this article we study the influence of the body mass index (BMI) on the pharmacokinetic properties of drugs.

Materials and methods. Retrospective analysis of 15 bioequivalence studies carried out in Clinical and Diagnostics Center of National University of Pharmacy in the period from 2005 to 2015. There are 3 types of BMI: Low - 18,5-20,5; Medium - 20,6-26,5; High - 26,6-30.

Aim. The study of the impact of BMI on the pharmacokinetic parameters of the drugs.

Kharkiv, Ukraine Results. In healthy volunteers with low BMI the maximum concentration of test drug (C_{max}) was more than 21% from healthy volunteers with high and medium BMI.

In healthy volunteers with high BMI (greater than 26,5) - time to maximum concentration of the test drug (T_{max}) was higher by 27% than in healthy volunteers with medium and low levels of BMI.

Conclusion. The study found that at the planning stage of bioequivalence study we should take into account the probability of influence of different BMI types on the pharmacokinetic parameters; the medium level of BMI is optimal, because it allows the greatest effectiveness of the results of the bioequivalence studies.

Ganizade N.D., Sheyan D.N., Liutenko M.A., Topchyi S.V.

**INFLUENCE OF THE ELECTROMAGNETIC RADIATION ON THE CENTRAL
NERVOUS SYSTEM**

**Department of Human Anatomy, Kharkiv National Medical University,
Kharkiv, Ukraine**

Actuality. Rapid development of telecommunications and computer technologies which have overflowed

mankind about twenty years ago, proceeds and now. The level of electromagnetic radiations (EMR)



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