The pages and lines of the manuscript should be numbered consecutively (in Word: Layout section - Line Numbers - Continuous)

**ORIGINAL ARTICLE**

**Title of the article**

Briefly (no more than 20 words) and clearly reflects the essence of the review, abbreviations and introductory words ("current view", "to the question", etc.) are not used

**Ivan I. Ivanov1,2, ……**

Full names of authors in English as they were indicated when registering authors in ORCID, Scopus systems

Name of the institution that is used in citation systems / the university itself recommends for citation.

1 *Medical University*

*street., building, city, post index, Russia*

*2State Research Institute ...*

*street., building, city, post index, Russia*

**Abstract**

**Structured, 230-280 words**

**Aim**.

what and why you have researched, who and how your scientific discovery can be used in the future.

**Materials and methods.** …

Briefly describe the study design, the experimental groups in qualitative and quantitative characteristics and what methods (morphologic, histochemical, microscopic) were used.

**Results.** …

Display statistical data in comparative characteristics between groups.

**Conclusion.** …

Summarize what you found and hypothesize about what this means.

**Keywords:** 5-8 words / word combinations that are not repeated in the title of the article

CONTACT INFORMATION

**Ivan I. Ivanov**, PhD, Associate Professor, …Medical University

**Address:** …

**E-mail:** …

**Ethics statements.**

The study complies with the standards of the EU Directive for the Protection of the Vertebrate Animals used for Experimental and other Scientific Purposes.

This research using biological material was conducted solely in accordance with the World Medical Association Declaration of Helsinki on Ethical Principles for Biomedical Research.

The study was conducted in accordance with the permission of the Local Bioethics Committee of the… Medical University, No. … of date.

Written informed consent was obtained from all patients included in the study.

**Data availability.**

The data that support the findings of this study are available from the corresponding authors on reasonable request.

The model is freely available for download at <https://simtk.org/projects/>...

**Conflict of interest.**

The authors declare that there is no conflict of interest.

Ivan I. Ivanov is the co-founder of the company that produces the device ... used in this study.

**Financing.**

The study had no sponsorship (own resources).

The study was supported by …[[1]](#footnote-1)

**Acknowledgments.** The authors express their deep gratitude to

The main text of the manuscript (not including metadata and bibliography) without illustrations and list of abbreviations is from 18,000 to 22,000 characters with spaces.

After acceptance of the manuscript for publication and completion of scientific editing, the editors ask authors to submit a graphic abstract for the article.

**List of abbreviations**

CD - cluster of differentiation

IL - Interleukin

Only commonly used abbreviations should be used, and they should be decoded once in the text: before the first mention of the abbreviation. All abbreviations used in the manuscript should be deciphered, except for symbols of chemical elements and abbreviations of commonly known metric units.

**Introduction** (the subtitle "Introduction" is not written).

It highlights the state of the issue at the international level with relevant references for the last 3-5 years to the most significant publications to substantiate the need for research, its scientific novelty and clinical relevance. For this purpose, demographic and medical statistical data, scientific research in this direction by other authors are given. In the last paragraph the aim is formulated.

The molecular origins of numerous pathological processes include a disrupted integrity of cellular proteins (proteome). Therefore, such disorders require therapeutic approaches to protect protein structure and/or restore their properties. Among the protectors, there is a diverse group of compounds called molecular chaperones. These macromolecules maintain proteostasis via a continuous support of a balanced proteome. Actually, molecular chaperones restore proper native structure (tertiary or quaternary) of proteins. The effects pass through a cascade of several intermediate stages. Their key regulation is due to a group of heat shock proteins weighing 70 kilodaltons (70 kilodalton heat shock proteins, Hsp70) [1].

…

The study aims to assess morphofunctional changes in the organs of the nervous and immune systems, as well as in the liver, upon intake of excessive amounts of exogenous Hsp70.

**MATERIALS AND METHODS**

A detailed description of the methods used should be provided to allow other authors, if they have the appropriate equipment and facilities, to replicate the experience.

References to papers with more detailed descriptions of the methods may be provided, but the description should be sufficient for a general understanding of the study. Describe the quantitative and qualitative characteristics of the patients (for clinical trials) or laboratory animals (for experimental work).

Drugs should be identified by their international non-proprietary names and should include the dosage, route, and frequency of administration. When software, hardware, and trade names of drugs are mentioned, the name of the manufacturer and its country of origin should be given in parentheses.

The study design, inclusion and non-inclusion criteria, flow chart of patient enrollment (an example can be viewed here <https://www.sechenovmedj.com/jour/article/view/896> ) or experiment design (can be viewed here - <https://www.sechenovmedj.com/jour/article/view/1001> ) are provided.

**FIG. 1.** Experimental design.

Note: Hsp70 (heat shock 70 kDA) / HspA1A (heat shock 70 kDa protein 1A), recombinant; NBF – neutral buffered formalin.

**Statistical analysis**

A detailed description of the methods of statistical data processing used in the work should be provided.

We tested the normality of distribution with Kolmogorov–Smirnov test. All obtained data are given as the median and interquartile range (25th; 75th percentiles), as well as the mean with its standard error. We employed one-way analysis of variance (ANOVA) to compare groups. In case of significant differences, we provided pairwise comparisons with *post hoc* Tukey's test, *p* < 0.05. We used Microsoft Excel (Microsoft, USA) and OriginPro (OriginLab, USA) software packages.

**RESULTS**

The results section does not include references to other studies. It does not contain any reasoning or conclusions, only a statement of facts.

The results are presented in a logical sequence in the text, tables and figures.

References to tables and figures should be clearly indicated in the text. It is not allowed to repeat all data from tables and figures in the text, only the most important ones should be mentioned. Figures should not duplicate data from tables. Measurements should be in accordance with the International System of Units (SI).

If abbreviations are used in the figure or table, they should be explained in a note to the figure.

…….

***Table 1.* Title**

|  |  |  |
| --- | --- | --- |
| **Parameter** | **Group** | |
|  | **Control** | **Experimental** | |
| TBA-RS, µM/mg of protein | 3,1 ± 0,5 | 6,3 ± 1,9a | |

Note: TBA-RS – thiobarbituric acid reactive substances

**DISCUSSION**

It is recommended that you begin with your own findings that support the research question.

You should highlight the new and most significant aspects of your research findings and compare them to other research, if available. Do not repeat information from previous sections. Data not included in the results cannot be included in the discussion.

**Limitations of the study**

...

**Directions for further research**

**…**

**CONCLUSIONS**

Should include clear and concise summaries of the experiment, without generalities, and reasonable recommendations.

The conclusion should not exceed one paragraph (5-7 brief conclusions of your work).

**AUTHOR CONTRIBUTION**

**Ivan I. Ivanov -**study concept and design,

* conducting the experiment.
* acquisition of data.
* analysis and interpretation of data,
* statistical analysis.
* drafting the manuscript.
* critical revision of the manuscript.

All authors approved the final version of the article.

**ЛИТЕРАТУРА / REFERENCES**

30–50 sources

It is recommended to include in the bibliography current works published in the last 3-5 years.

Unpublished works, preprints, manuals, newspapers, popular science magazines, materials contained in Wikipedia, StatPearls [Internet] shouldn’t be included in the references.

State Standards, laws, electronic resources should be formalized as subscripts in the text of the manuscript with the date of reference in parentheses.

All references to journal publications should contain DOI (unique digital identifier of the article in the CrossRef system), PMID (identification number in the PubMed database).

1. *Cintrón-Colón A.F., Almeida-Alves G., Boynton A.M., et al.* GDNF synthesis, signaling, and retrograde transport in motor neurons. Cell Tissue Res. 2020 Oct; 382(1): 47–56. https://doi.org/10.1007/s00441-020-03287-6.  Epub 2020 Sep 8. PMID: 32897420; PMCID: PMC7529617
2. *Hu X., Xu W., Ren Y., et al.* Spinal cord injury: molecular mechanisms and therapeutic interventions. Signal Transduct Target Ther. 2023 Jun 26; 8(1): 245. Published 2023 Jun 26. https://doi.org/10.1038/s41392-023-01477-6. PMID: 37357239; PMCID: PMC10291001

**INFORMATION ABOUT THE AUTHORS**

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|  |
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For an original study, a filled checklist for the appropriate type of original research should be submitted with the manuscript.

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[CONSORT](https://www.equator-network.org/reporting-guidelines/consort/) (Consolidated Standards Of Reporting Trials)

[TREND](https://www.cdc.gov/trendstatement/) (Transparent Reporting of Evaluations with Nonrandomized Designs).

[STROBE](https://www.equator-network.org/reporting-guidelines/strobe/) (Strengthening the Reporting of Observational Studies in Epidemiology).

[STARD](https://www.equator-network.org/reporting-guidelines/stard/) (Standards for Reporting of Diagnostic Accuracy).

[TRIPOD](https://www.equator-network.org/reporting-guidelines/tripod-statement/) (The Transparent Reporting of a multivariable prediction model for Individual Prognosis or Diagnosis).

[PRISMA](https://www.equator-network.org/reporting-guidelines/prisma/) (Preferred Reporting Items for Systematic Reviews and Meta-Analyses,

[ARRIVE](https://www.equator-network.org/reporting-guidelines/improving-bioscience-research-reporting-the-arrive-guidelines-for-reporting-animal-research/) (Animal Research: Reporting of*In Vivo* Experiments)  <https://arriveguidelines.org/resources/author-checklists>

**SUPPLEMENTARY**

1. link for the electronic source (date of application: …) [↑](#footnote-ref-1)