

## The ARRIVE Essential 10

These items are the basic minimum to include in a manuscript. Without this information, readers and reviewers cannot assess the reliability of the findings.

Item	Recommendation	Section/line number, or reason for not reporting
Study design	1 For each experiment, provide brief details of study design including: a. The groups being compared, including control groups. If no control group has been used, the rationale should be stated.	Дизайн исследования, план операции и забор материала, методы, а также группы животных (экспериментальная и контрольная) были подробно описаны в разделе «Материалы и методы», строки 157-191. The study design, surgical plan and material collection, methods, as well as animal groups (experimental and control) were described in detail in the “Materials and Methods” section, lines 157-191.
	b. The experimental unit (e.g. a single animal, litter, or cage of animals)	Экспериментальная единица представляла собой 2 клетки с животными, описанные в разделе «Материалы и методы», строки 157-165. The experimental unit consisted of 2 animal cages, described in the Materials and Methods section, lines 157-165.
Sample size	2 a. Specify the exact number of experimental units allocated to each group, and the total number in each experiment. Also indicate the total number of animals used.	Общий размер выборки исследуемых групп, а также конкретное распределение и использованные выборки описаны в разделе «материалы и методы» аннотации, строки 19-21. The overall sample size of the study groups, as well as the specific distribution and samples used, are described in the Materials and Methods section of the abstract, lines 19–21.
	b. Explain how the sample size was decided. Provide details of any a priori sample size calculation, if done.	Размер выборки был определен на основе литературных данных и статистического анализа Sample size was determined based on literature data and statistical analysis
Inclusion and exclusion criteria	3 a. Describe any criteria used for including and excluding animals (or experimental units) during the experiment, and data points during the analysis. Specify if these criteria were established a priori. If no criteria were set, state this explicitly.	Экспериментальных животных в каждую группу отбирали в соответствии с требованиями включения. Критерии включения для экспериментальных животных описаны в разделе «материалы и методы», строки 157-159.

		Experimental animals in each group were selected in accordance with inclusion requirements. Inclusion criteria for experimental animals are described in the Materials and Methods section, lines 157-159.
	b. For each experimental group, report any animals, experimental units or data points not included in the analysis and explain why. If there were no exclusions, state so.	В экспериментальных группах не было животных, исключенных из эксперимента, показатели состояния здоровья у всех животных было удовлетворяющее требованиям эксперимента. In the experimental groups there were no animals excluded from the experiment; the health indicators of all animals met the requirements of the experiment.
	c. For each analysis, report the exact value of n in each experimental group.	Количество экспериментальных животных в каждой группе «материалы и методы» аннотации, строки 19-21 Number of experimental animals in each group “materials and methods” annotations, lines 19-21
Randomisation	4 a. State whether randomisation was used to allocate experimental units to control and treatment groups. If done, provide the method used to generate the randomisation sequence.	Экспериментальные животные были пронумерованы и случайным образом сгруппированы по номерам (как описано «материалы и методы» аннотации, строки 19-21). Experimental animals were numbered and randomly grouped by number (as described in the “materials and methods” abstract, lines 19–21).
	b. Describe the strategy used to minimise potential confounders such as the order of treatments and measurements, or animal/cage location. If confounders were not controlled, state this explicitly	Чтобы уменьшить воздействие потенциально искажающих факторов, лабораторных животных помещали в стандартные условия содержания и питания. / строки 159-163 To reduce exposure to potential confounding factors, laboratory animals were housed under standard housing and nutritional conditions. / lines 159-163
Blinding	Describe who was aware of the group allocation at the different stages of the experiment (during the allocation, the conduct of the experiment, the outcome assessment, and the data analysis).	Пронина А.С. под руководством профессора Суворовой Г.Н. разработала концепцию эксперимента, провела эксперимент забор и обработку материала совместно с Волождиной Н.Н., выполнила статистическую обработку цифровых данных. Совместно авторы подготовили рукопись статьи. Участие авторов

		<p>описано в разделе «Вклад авторов» строки 305-311</p> <p>Pronina A.S. under the guidance of Professor Suvorova G.N. developed the concept of the experiment, conducted the experiment, collecting and processing the material together with Vologdina N.N., performed statistical processing of digital data. Together, the authors prepared the manuscript of the article. Author contributions are described in the Author Contributions section, lines 305-311</p>
Outcome measures	6 a. Clearly define all outcome measures assessed (e.g. cell death, molecular markers, or behavioural changes).	<p>Критерии оценки воздействия гипогонадизма на скелетную мышечную ткань: диаметр мышечных волокон, толщина эндомизия, соотношение площади мышечных волокон к соединительной ткани, объем миофибриллярного аппарата, цитоплазмы, митохондрий, гликогена, ядер. Строки 174-178</p> <p>Criteria for assessing the impact of hypogonadism on skeletal muscle tissue: diameter of muscle fibers, thickness of endomysium, ratio of the area of muscle fibers to connective tissue, volume of the myofibrillar apparatus, cytoplasm, mitochondria, glycogen, nuclei. Lines 174-178</p>
	b. For hypothesis-testing studies, specify the primary outcome measure, i.e. the outcome measure that was used to determine the sample size.	<p>Не применяли</p> <p>Did not apply</p>
Statistical methods	7 a. Provide details of the statistical methods used for each analysis, including software used.	<p>Для статистической обработки полученных данных использовали Microsoft Excel 2016,</p> <p>Microsoft Excel 2016 was used for statistical processing of the obtained data.</p>
	b. Describe any methods used to assess whether the data met the assumptions of the statistical approach, and what was done if the assumptions were not met.	<p>Все данные были проанализированы статистически</p> <p>All data were analyzed statistically</p>
Experimental animals	8 a. Provide species-appropriate details of the animals used, including species, strain and substrain, sex, age or developmental stage, and, if relevant, weight.	<p>Подробная информация об экспериментальных животных была описана в разделе «Материалы и методы» строки 157-159</p>

		Details of the experimental animals were described in the Materials and Methods section, lines 157-159
	b. Provide further relevant information on the provenance of animals, health/immune status, genetic modification status, genotype, and any previous procedures.	Животные были получены и исследованы на базе вивария Института экспериментальной медицины и биотехнологий ФГБОУ ВО СамГМУ Минздрава России Животные были получены и исследованы на базе вивария Института экспериментальной медицины и биотехнологий ФГБОУ ВО СамГМУ Минздрава России
Experimental procedures	9 For each experimental group, including controls, describe the procedures in enough detail to allow others to replicate them, including: a. What was done, how it was done and what was used.	Экспериментальный процесс, методы были описаны в разделе «Материалы и методы» The experimental process and methods were described in the Materials and Methods section.
	b. When and how often.	Подробно описаны в разделе «Материалы и метода» Described in detail in the section "Materials and Methods"
	c. Where (including detail of any acclimatisation periods).	
	d. Why (provide rationale for procedures).	
Results	10 For each experiment conducted, including independent replications, report: a. Summary/descriptive statistics for each experimental group, with a measure of variability where applicable (e.g. mean and SD, or median and range).	Экспериментальные данные в этом исследовании были выражены средним значением $\pm S$ The experimental data in this study were expressed as mean $\pm S$
	b. If applicable, the effect size with a confidence interval.	Не применяли Did not apply