



- ture and sports activities and healthy lifestyle of student youth in Siberia]. *Sostoyaniye zdorovya: meditsinskiye, sotsialnyye i psikhologo-pedagogicheskiye aspekty* [State of health: medical, social and psychological-pedagogical aspects]. Proceedings VIII International scientific-practical conference. 2017. Ulan-Bator. pp. 541-548.
- Mansurova N.I., Ponomarev V.V., Antonenko M.N. Kriterii sformirovannosti sportivnoy kultury studentov vuzov Sibirskogo regiona [Criteria for the formation of sports culture among university students in the Siberian region]. *Teoriya i praktika fizicheskoy kultury*. 2018. No. 3. 46 p.
 - Ponomarev V.V., Minchenkov K.A. Fizicheskaya kultura studentov Sibirskikh vuzov: sotsiologicheskiy aspekt [Physical culture of students of Siberian universities: sociological aspect]. *Fizicheskaya kultura: vospitaniye, obrazovaniye, trenirovka*. 2017. No. 11. 71 p.
 - Ponomarev V.V., Sitnichuk S.S., Muravyova O.N. Otnosheniye studentov vuza k zanyatiyam boksom v aspekte sotsiologicheskogo analiza [The attitude of university students to boxing in the aspect of sociological analysis]. *Teoriya i praktika fizicheskoy kultury*. 2017. No. 3. pp. 12-14.

FROM SLUSHPILE

The interconnection between individual components of technical value and competitive results of the best aesthetic gymnastics groups in the world

Postgraduate student **P. Bulgacheva**¹

Postgraduate student **E. Shugol**¹

PhD **L.A. Novikova**¹

¹Russian University of Sports «GTSOLIFK», Moscow

UDC 796.41

Received by the editorial office on 14.05.2024 г.

Keywords: *aesthetic gymnastics, execution, elite athletes, Spearman correlation analysis*

The purpose of the research is to determine the interconnection between technical and artistic value, execution of the competition programs and the final score of the best aesthetic gymnastic groups in the world.

Research methods and procedure. Pedagogical observations were undertaken during the World Championship 2023 in Almaty. The study involved top six senior aesthetic gymnastics groups (three groups from Russia, two groups from Bulgaria and one from Japan).

Research results and discussion. The maximum score in aesthetic gymnastics is 30 points, consisting of three components with the maximum of 10 points for each component. To determine the interconnection between the individual components and the competitive results, the rank correlation analysis was conducted, which allowed to identify the degree of influence of each component on the final score. According to the results of the conducted rank correlation analysis, we obtained rank correlation coefficients equal to 0,97; 0,70; 0,93 indicating strong and moder-

ate association between the individual components of execution and competitive results.

Conclusions. The correlation analysis revealed strong association between technical value and the competitive result $r=0,97$; between execution and the competitive result $r=0,93$; moderate association between artistic value and the competitive result $r=0,70$.

References

- International competition rules in aesthetic gymnastics/ 2022. – p. 39 <https://vfeg.ru/v4/ru/page.php?n=14&nn=2>
- Novikova L.A. Vliyanie izmenenij mezhdunarodnykh pravil sorevnovanij na sodержanie sorevnovatelnykh kombinacij komand vysokoy kvalifikacii v esteticheskoy gimnastike / L.A. Novikova., L.P. Morozova., P.V. Nochevnova // V sbornike: Aktualnye problemy i tendencii razvitiya gimnastiki, sovremennogo fitnesa i tancevalnogo sporta. Materialy V Vserossiyskoj nauchno-prakticheskoy konferencii s mezhdunarodnym uchastiem. Moskva, 2023. - S. 85-89.

Corresponding author: bulgacheva_polina@inbox.