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Ranking of medical universities in Kazakhstan as a tool of stimulating scientific activity

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- **Background:** One of the reasons behind the low competitiveness of medical universities in Kazakhstan is their low level of scientific activity. In this regard, the system of scientific activity ranking of medical universities has been implemented in the Republic of Kazakhstan. It is based on international indicators acquired from global university rankings.
- **Aim:** The aim of the current study was the analysis of effectiveness of the scientific activity ranking system of medical universities.
- **Methods:** Study of the qualitative and quantitative characteristics of the employees in medical universities (faculty members, researchers and doctors of university hospitals), amount of funding, number of articles, citations, patents, international co-authorship.

Results:

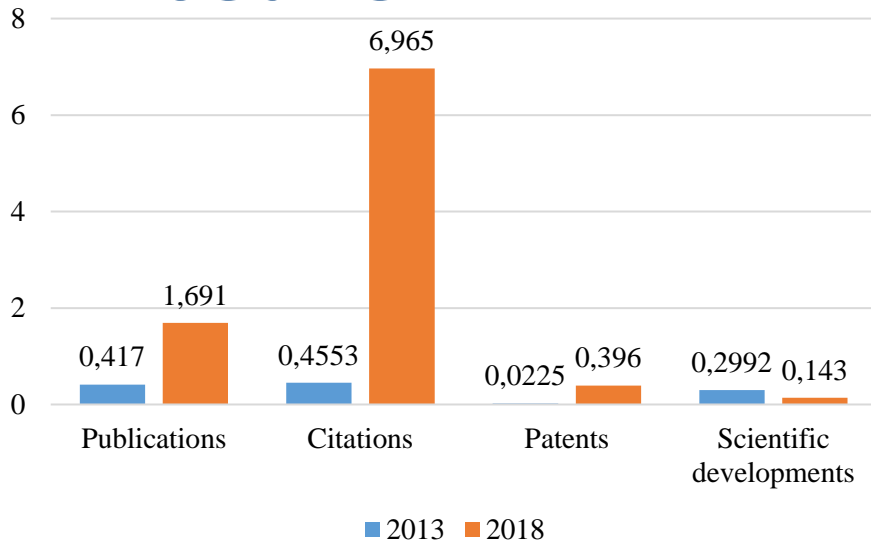


Fig.1. Main performance indicators dynamics (in points)(2013-2018)

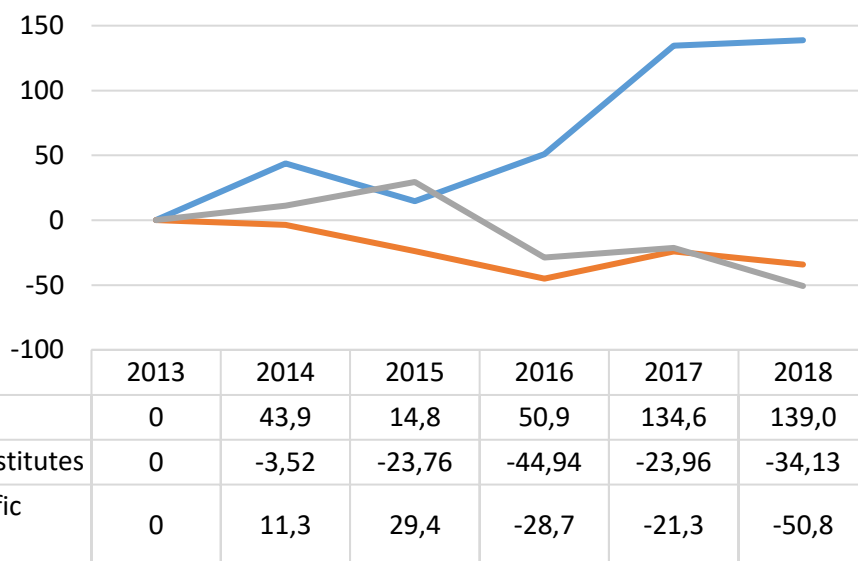


Fig.2. Medical scientific organizations research funding dynamics (%) (2013-2018)

Table1. Average IF/SJR dynamics (2013-2018)

Average journal IF/SJR (impact-factor)	2013	0,9	1,4	1,6	1,3
	2014	1,1	1,3	1,3	1,23
	2015	1,5	1,2	1,6	1,43
	2016	1,28	1,29	1,4	1,32
	2017	2,74	3,86	1,4	2,74
	2018	1,7	1,86	5,9	3,15

Analysis of the results of the implementation of the ranking system for the period from 2013 to 2018 showed the growth of all key indicators of the scientific activity (Fig.1). Despite of decrease of funding (Fig.2). The average impact factor (IF) for journals indexed in the Web of Science and the SCImago Journal Ranking (SJR) for journals indexed in Scopus increased in 2.4 times (Table 1).

Conclusion:

The analysis of scientific activities of medical universities in dynamics showed an increase in the main performance indicators, thereby proving the stimulating nature of the scientific activity ranking system of medical universities.