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Statistical tests for comparing two probabilities and their application to cancerous tumour diagnosis

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Statistical tests for comparing two probabilities in the case of dependent trials are proposed. One of them is constructed on confidence intervals, another test is based on the 2s-rule.

It is shown [1] that the asymptotic significance levels of these tests do not exceed 0.05. The proposed tests are developed and applied to cancer risk analysis among persons who participated in the clearing of the Chernobyl zone in 1986-87.

[1] D. A. Klyushin, Yu.I.Petunin, M .Yu. Savkina, R.I.Andrushkiw, E.A.Djomina.- Statistical tests for comparing two probabilities and their application to cancer risk analysis\\ Proceedings of the International Conference on Mathematics and Engineering Techniques in Medicine and Biological Sciences, Las Vegas, USA, p.165-169.