

# MODIFIED CLUSTER ANALYSIS OF STANDARD MEDICAL EXAMINATION RESULTS IN DIFFERENTIAL DIAGNOSIS OF SOME PULMONARY DISEASES

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## *Summary*

We examined 141 patients with lung diseases (cancer — 35, tuberculosis — 29, sarcoidosis — 42, pneumonia — 35). We developed a modified cluster analysis method of standard medical examination associated with non-linear data coordinates transformation. Obtained results are applicable for differentiation between sarcoidosis, cancer and tuberculosis. In the same time for significant determination of pneumonia these data are insufficient. The proposed approach is useful for preliminary diagnosis in outpatient department and further determination of diagnostics algorithm.