Morphological changes of cells of human tonsils affected by trichomonas
Alexander V Kuznetsov
Department of Human Anatomy, Novosibirsk State Medical, University, Novosibirsk 630096, Russia

*Corresponding Author:
Alexander V Kuznetsov
Email: alexapex@yandex.ru

Abstract: Aims the study was to reveal the morphological changes of cells of human palatine tonsils (PT), atypical cells and trichomonas in PT of patients in diverse diseases. Cytological material of PT of 1300 patients (male, female, aged 13 - 85) has been examined. Specimens of PT's cells were obtained by scraping from PT and placed as smears onto microscopic slides, stained by Giemsa and observed by a light microscopy (patent No. 2 293 298 C2, Russian Federation, 2007). 280 patients had malignant solid tumours of different localization, 19 patients had leukemia, 30 were practically healthy, The rest had different infections and inflammation diseases.

RESULTS AND DISCUSSION
The trichomonas were revealed in the specimens of the PT of men during screening of neoplasm by a retrospective analysis of tonsil's cells (Fig. 1, 2), which was an unexpected discovery: male patient with iron deficiency anemia (1), remote melanoma (2), leukemia (3), lung cancer (2), trichomonas vaginalis (1) and practically healthy men (30). These patients did not suspect they were infected by trichomonas. No any trichomonas were obtained from health patients. These data support the idea that the test should be made in the following cases: (1) Patients in trichomoniasis and in other sexual infections. (2) Patients in neoplasm. (3) Patients in anemia. (4) Patients in pulmonary diseases. (5) Patients-perverted. The test can help to diagnosis and adequate treatment of trichomoniasis and other diseases.

Keywords: human palatine tonsils, morphological changes, trichomonas.

REFERENCE


Epithelial cells had large sizes, with a large nucleus and their cytoplasm was stained intensively blue. The epithelium displayed homogenous optically dense cytoplasm with sinuous contour. Some large epithelial cells had a large solitary vacuole or a few small vacuoles. It was clear dysplasia of epithelium. These patients did not suspect they were infected by trichomonas.

Some aspects of this matter, especially those related to protozoa as disruptors to the airway epithelium by means of its interaction with the so-called ‘tight junctions’, remain uncertain [3]. Oral cavity is atypical localization of trichomionas because no trichomonas were detected in PT of health patients. Studies completed to date have shown that trichomonas tenax can be found in humans in atypical locations such as the salivary glands and upper and lower respiratory tracts [2].

CONCLUSION

These data support the idea that the test should be made in the following cases: (1) Patients in trichomioniasis and in other sexual infections. (2) Patients in neoplasm. (3) Patients in anemia. (4) Patients in pulmonary diseases. (5) Patients-perverted. The test can help to diagnosis and adequate treatment of trichomioniasis and other diseases.