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Fish UroVysion method potential research for early detection of bladder cancer in Kazakhstan

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Aim: To estimate improvement possibilities for early laboratory detection bladder cancer.

Materials and Methods: 168 patients were chosen aging 40 to 75 who were treated in the National Urology Center named B.U. Zharbusynov to research morning urine probes by the FISH method using the UroVysion Kit (CE), Abbott Molecular). Most patients having bladder pathology were 50 to 69 years old that is 88 people (52.3 %), after that go people aging 70 to 75 that is 80 people (47.7 %).

Research Results: Patients were divided into groups in accordance with stage and degree of tumor. Specificity and sensitivity of the FISH test was 63.7 % and 69.8%, 91.7 % and 100 % for Ta, T0, T1, and T2 groups accordingly. Factors affecting decrease of the FISH test sensitivity might have been connected with tumor cells absence, a low degree tumor, probes accumulation method, type of probe, and phlogistic process in urine probes from the patients diagnosed haematuria, and cancer suspicion, and had cells absence on the slides that can be connected with a lack of materials.

Conclusion: On the whole, according to the results of our research FISH negative take does not exclude a backset development, as well as positive take is not related to a big risk of backset development after the operation. Carrying out of the test points out to more favorable prognostication as for backset processes for patients with negative take of FISH test before the operation and with the amount of mutant cells in the urine < 40%.

Biography

Svetlana Duisenbayeva- head of laboratory at "The Research Center of Urology named after B.U. Dzharbussynov". She graduated Kazakh National University, with the major-biochemistry, in 1992. In 1993, she continued her education in the sphere of clinical laboratory diagnostics; it allowed her work in medical laboratories. Currently, as it was mentioned above, she work as a head of laboratory at "The Research Center of Urology named after B.U. Dzharbussynov". Her laboratory performs not only basic functions, it also conducts scientific researches. Nowadays, The Research Center of Urology makes a research about male infertility and its reasons on the genetic level.

She always try to bring something new to the laboratory, and she hope that Molecular Medicine Conference will show new opportunities and ideas for the future development of the laboratory.

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