

PDT approach to treat early-stage invasive cervical cancer

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Abstract

Cervical cancer is a significant disease in female oncology. Photodynamic therapy (PDT) is a non-invasive procedure for treatment and prevention of the cervical papillomavirus infection clinical manifestations (ex. ICC – invasive cervical cancer). 18 patients with ICC IA-B stages have treated by PDT since 2016. In these case reports were included two most significant clinical cases of ICC treatment. These patients (33 and 43 y.o.) had ICC IAI and IBII stages. 1 patient (37 y.o.) had cancer in situ (CIS). It is a unique case. Visual changes of cervical surface looked like invasive tumor. Patients with ICC IAI stage and CIS had 1 PDT session. Patient with ICC IBII stage had three PDT session. PDT session included two steps. Photosensitizer (Chlorine E6) used for intravenously injection. After three hours the first step irradiation was started of the cervical canal (endocervix). The second step was polypositional (4 areas) irradiation of the cervical surface. Diagnosis was approved by magnetic resonance imaging (MRI) Digene-test, colposcopy and liquid-based cytology (LCB) or histological investigation. All patients had control check-up (MRI, Digene-test, colposcopy and LCB) no less than 3 times (on the 3rd, 6th and 12th months after PDT).

The PDT approach has an impressive result in treatment of cancerous lesions. Patient with ICC IBII managed to avoid the radical trachelectomy and save fertility. She had operative labour after 4 year of PDT. Patient with ICC IBII, patients with ICC IAI and CIS have no relapse during 5; 2,5 and 2,5 years respectively.

Biography

Alexander Dushkin has graduated International School of Medicine in Sechenov university with excellent marks at the age of 23. He is study in clinical oncology residency at the Loginov Moscow Clinical Scientific Center. His post-graduate study was continued in Sechenov university. He has published more than 3 papers in reputed journals and has been serving as an editorial board member of repute.



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