

UTERINE CANCER.

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Abstract: Uterine cancer is a severe pathology that manifests itself in the form of a malignant tumor formed from modified cells of the endometrium - the internal mucous membrane lining the uterine cavity. This is one of the most common cancers that develop in women.

Keywords: Endometrial cancer, malignant tumor, epithelium.

Endometrial cancer is a malignant tumor that originates from the epithelium (layer of cells) of the uterine body. Tumor of the uterus is one of the most common malignant neoplasms in women. Uterine cancer primarily affects women between the ages of 50 and 65, and is less common among women under 50. There are two main types of endometrial cancer (EC). Hormone-dependent uterine cancer is more common in women aged 45 to 50 who have a history of polycystic ovary syndrome, infertility, obesity, hyperglycemia, diabetes mellitus, and uterine bleeding. Many precancerous conditions play a significant role in the development of uterine cancer. These are scars remaining after birth trauma, ulcers, erosion, leukoplakia, epithelial growths (polyps, condylomas), inflammatory processes (endometritis and endocervicitis).

LISOD uses the most advanced methods for diagnosing and treating uterine cancer in accordance with international standards. Effective diagnosis of uterine cancer is based on a comprehensive examination. Only this approach guarantees the timely detection of uterine cancer. Diagnosis and staging of uterine body cancer is based on anamnesis data, X-ray, hysteroscopic, cytological and histological studies. Cancer of the body of the uterus (endometrial cancer) is also detected during an ultrasound examination of the pelvic organs.

The main diagnostic method is a histological examination of a scraping from the uterine cavity. The study of the material is carried out in a reference foreign laboratory. Diagnosis of uterine cancer is very important for developing a plan for radiation or combined treatment. In case of detection of atypical cells in the cytological examination of smears from the cervix, an aspiration biopsy of the endometrium is performed. Cervical curettage and endometrial aspiration biopsy are indicated for all patients with suspected endometrial cancer (uterine cancer). With negative results of aspiration biopsy, separate diagnostic curettage of the cervix and uterus is indicated. For healthy women, transvaginal ultrasound is used as screening. X-rays of the lungs and computed tomography are also used in the diagnosis. In some cases, a colonoscopy is indicated.

In some cases, PET-CT is used:

- for the diagnosis of a tumor in selected patients with an elevated level of the CA 125 tumor marker and an ambiguous picture according to other studies;
- with suspected recurrence of endometrial carcinoma;
- with suspected involvement of the pelvic and para-aortic lymph nodes.

The underlying disease of cancer of the body of the uterus may be glandular cystic hyperplasia of the endometrium. "Autonomous" uterine cancer is more often diagnosed in women over 50 years of age. Characterized by the absence of endocrine-metabolic disorders and low sensitivity to hormones.

In the treatment of endometrial cancer, depending on the prevalence of the process, we use all types of oncological therapy - radiotherapy, removal of a uterine tumor, hysterectomy (removal of the uterus), endometrial resection, supravaginal amputation of the uterus, chemotherapy, hormone therapy for uterine tumors.

Surgery for uterine cancer

In 80% of cancers of the body of the uterus are diagnosed at stages 1-2, and the tumor of the uterus can be cured using some surgical methods or a combination of surgical methods and radiation therapy.

Surgical treatment consists of hysterectomy (removal of the uterus); also often remove the ovaries (ovarectomy) and fallopian tubes, ie. perform the removal of appendages, since these organs are usually affected by any spread of a cancerous tumor. Because spaying for pre-menopausal women may be associated with possible emotional problems associated with menopause, we are committed to providing all women with psychological and emotional support and counseling.

The main symptom of endometrial cancer is uterine bleeding (bleeding of varying intensity), in rare cases, pain. In young women of reproductive age, the symptoms of the disease are manifested by a violation of menstrual functions - heavy menstrual or intermenstrual bleeding. Pain indicates the prevalence of the process. It may be associated with compression of the nerve trunks by the resulting infiltrate or with the fact that the contents of the uterine cavity stretch its walls.

Symptoms of uterine cancer:

- copious vaginal discharge with mucus impurities;
- intense bleeding;
- lower abdominal pain.

Radiation therapy for uterine cancer

In advanced stages, in addition to surgical treatment, radiation therapy is used as a second stage or as monotherapy. For remote therapy, we use linear accelerators from VARIAN. Individual planning, the presence of collimators that allow you to create radiation fields according to the shape of the tumor, significantly reduces the risk of side effects of radiation. According to the indications, it is possible to use a combination of remote and intracavitary radiotherapy (brachytherapy). The use of high-dose brachytherapy allows the maximum dose to be delivered precisely to the tumor in the shortest period of time, which significantly improves efficiency.

Uterine cancer is an oncological disease that affects an important organ of the female reproductive system. The uterus is the female genital organ responsible for the reproductive function, located in the lower abdomen, and its main part is covered by the abdominal membrane. The uterus can change its position differently from the axis of the pelvis, its mobility depends on the fullness of a number of adjacent organs, such as the rectum and bladder. Internally, the structure of the organ consists of perimetrium, myometrium, and endometrium. Depending on the onset of pregnancy or menstruation, the thickness of the endometrium changes, which rejects the surface layer, and the basal layer is responsible for recovery. The reproduction of cancer cells can occur precisely in the structure of the uterus and form tumors.

A tumor is a neoplasm that affects cerebral tissues and cells. Uterine cancer is a malignant tumor that threatens a woman's life. The danger of such tumors in the latent course of the disease and its

spread through the lymphatic vessels to other important vital organs. Cancer of the body of the uterus is a common malignant disease that affects the body of the uterus. It has 2 types of pathogenesis. The first type is typical for tumors that occur in young women. This type of development of the disease occurs against the background of hormonal failure or an increase in the endometrium. The second type is more complicated, as it occurs in older patients, when atrophic processes occur with the tissues of the organ and the release of the estrogen hormone is actively reduced. Uterine sarcoma is also released - this is a cancer of the uterus that forms in the muscle and connective tissue. Uterine cancer - symptoms and signs. Signs of the disease are unexplained vaginal bleeding. During postmenopause, in the normal course of life, spotting should not be, and their appearance is the first sign of a serious illness. In reproductive age, menstrual irregularity can be an important symptom. Also, abundant white discharge, or leucorrhoea, which may be accompanied by severe pain, can also be symptoms, especially if a purulent or bloody character appears, a timely visit to a doctor will help diagnose uterine cancer.

Symptoms also include:

- painful and pulling sensations in the lower abdomen,
- discomfort and tightness when urinating,
- pain during intercourse.

Such symptoms may be signs of various diseases, but early diagnosis will help to find the problem and treatment without serious damage to the body. Uterine cancer – stages. The effectiveness of the treatment of uterine cancer depends on the stage of the disease. There are four stages of tumor development:

- the tumor is within the body of the uterus;
- the cancer has spread to the cervix;
- the tumor affects the lymph nodes and neighboring organs;

Cancer metastasizes to other vital organs.

Initially, the tumor is in the uterus and does not go beyond it. Further, cancer may extend beyond the uterus, but be in the pelvic area. At the last stage, the neoplasm spreads to adjacent organs, as well as outside the abdominal cavity through the lymphatic vessels and nodes. Cancer of the body of the uterus can spread through the lymphatic and blood vessels to other organs and tissues, affecting them.

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