GIANT UTERINE LEIOMYOMA – CASE REPORT AND REVIEW OF LITERATURE

*Konrad Wroński*1, 2

1Department of Oncology, Faculty of Medicine, University of Warmia and Mazury, Olsztyn, Poland
Head of Department: prof Sergiusz Nawrocki, MD, PhD

2Department of Surgical Oncology, Hospital Ministry of Internal Affairs with Warmia and Mazury Oncology Centre, Olsztyn, Poland
Head of Department: Andrzej Lachowski, MD

Summary
Uterine leiomyomata are the most common gynecological benign tumors arise from the smooth muscle cells of the myometrium. The pathogenesis of fibroids is still unclear. Leiomyomas are found in more than half of women over age 35. About 70% of Caucasian women and 80% of African American women have uterine leiomyomata above 50 years of age. Most of patients have small uterine leiomyoma. Giant uterine leiomyoma with cystic degeneration are exceedingly rare and can be mistaken for ovarian or retroperitoneal cysts and neoplasmatic tumor.

The author of this article presented a case of a 63-year-old Caucasian woman who was admitted to the hospital because of giant uterine leiomyomata which mimicking a huge ovarian malignancy and cause torsion. The patient underwent radical abdominal hysterectomy and bilateral salpingoophorectomy without complication. The author performed a literature review on giant uterine leiomyomata treatment.

Key words: leiomyoma, cystic degeneration, torsion, treatment, surgery

INTRODUCTION
Uterine leiomyomata are the most common gynecological benign tumors arise from the smooth muscle cells of the myometrium (1-3). The pathogenesis of fibroids is still unclear (2, 3). Leiomyomas are found in more than half of women over age 35 (1-4). About 70% of Caucasian women and 80% of African American women have uterine leiomyomata above 50 years of age (5). Most of patients have small uterine leiomyoma (5, 6). Giant uterine leiomyoma with cystic degeneration are exceedingly rare and can be mistaken for ovarian or retroperitoneal cysts and neoplasmatic tumor (6, 7).

CASE REPORT
A 63-year-old Caucasian woman was referred to the Department of Surgical Oncology due to giant pelvic tumor diagnosed in computer tomography scan (fig. 1, 2). The computed tomography scan revealed cystic-solid polycyclic mass adherent to the stem of the uterus, which after intravenous injection of contrast agent underwent strengthening mainly within the peripheral solid tumors. The largest transverse dimension at the level of iliac was 242 x 173 millimeters. Tumor mass extended from the level of the lower edge of the right lobe of the liver to the upper wall of the bladder, the peripheral outline of polycyclic calcification were visible. In the adnexal revealed no changes. The bladder was thin-walled. In the other organs of the abdomen, there were no focal lesions. The lymph nodes were not enlarged during the scope examined. In bones, there were no lesions suspected of metastasis. The basal layer of both lungs were unchanged.

The patient suffered from abdominal pain located in the mesogastric and the lower abdomen area, she had distension and constipation for a period of 16 months. Physical examination showed palpable tumor located in the mesogastric and the lower abdomen area. There were no peritoneal symptoms. The external genitalia and uterine cervix were normal. Her vital signs were all within normal limits. There was no histopathological examination of the fine-needle aspiration biopsy before planned surgery.

She had no any other symptoms, there was no history of weight loss and loss of appetite. The patient was treated chronically due to diabetes and arterial hypertension. She had no surgeries and there was no history of carcinoma in patient family. Blood test and other routine hematological examinations and biochemical tests were within normal limits.

Considering the size of the tumor and the possibility of malignancy, a radical abdominal hysterectomy and bilateral salpingoophorectomy was performed (Figure 3 and 4). The time of surgery was about 120 minutes. Patient after surgery felt good and did not complain of pain.

Histopathology examination of a huge tumor showed uterine leiomyomata with cystic degeneration. The postoperative period was uncomplicated and the patient left the ward in the 6th day after surgery.
constipation, occurring more often menstrual bleeding and micturation and reproduction affect (2-6). When uterine fibroids enlarge there are observed different types of degeneration such as hyaline, cystic, myxoid or red degeneration and dystrophic calcification (13). Hyaline degeneration is the most common and is observed in up to 60% cases of leiomyomas (14). Cystic degeneration is observed in about 4% of fibroids (14).

Typical appearances of leiomyomas are easily detected on ultrasound imaging. In the vast majority cases, transvaginal or through the abdomen ultrasound is usually the initial tool for diagnosis of uterine myoma (15). Magnetic resonance imaging accurately shows location and number of leiomyomas (15). Chopra and colleagues reported that diagnostic accuracy for USG and MRI are 73% and 100% respectively (15). The computed tomography scan is useful tool to diagnose cases of fibroids with necrosis complication and malignant transformation (13, 15).
The treatment of uterine fibroids may involve one of the following approaches or a combination thereof: expectant management, surgical management, medical management, myolysis management and selective uterine artery embolization (11, 12). The chosen approach should be individualized for every patient. Nowadays a surgical management is the most frequent preferred. But it is important to treat women with large leiomyomas in high specialized gynecological or oncological surgery departments.

CONCLUSIONS
1. Giant uterine leiomyomas are exceedingly rare.
2. Clinical symptoms of the large myoma are: pain, distension, constipation, occurring more often menstrual bleeding and micturation and reproduction affect
3. Transvaginal or through the abdomen ultrasound is usually the initial tool for diagnosis of uterine myoma.
4. The chosen treatment should be individualized for every patient.
5. Women with large leiomyomas should be treated in high specialized gynecological or oncological surgery departments.

References