

# First Born Male Following Myomectomy for Giant Myoma and Intravenous Leiomatosis

Ali Farid Mohamed Ali<sup>1</sup>

**Abstract:** Introduction: Fibroid is the most common benign tumor in women. We represented here a case report gathered giant myoma (58kg), huge number of removed myoma (475 myomas), new line of treatment (Bee propolis) and first live birth male baby after removal of myoma and intravenous leiomatosis. **Subject and method:** Female patient aged 38 years old, primary infertility for 20 years, body weight 135 kg complaining of huge pelvi-abdominal mass. 3D ultra sound, CT and MRI revealed a huge mass together with multiple nodules inside the body reaching the right atrium, lungs and right ventricle. **Result:** Laparotomy revealed giant myoma (58kg) and 475 myomas were removed from all parts of the body those found in the right atrium and right ventricle subjected to a new oral treatment in the form of Bee Propolis 0.5 gram \3 times daily for 2 months. Pregnancy occurred six months from laparotomy. Pregnancy passed smooth till 37 weeks, caesarian section was done and delivery of a male living baby 2.995 kg. **Conclusion:** This is the first case report gathered giant myoma (58kg), removed myoma (475), new medical treatment (Bee propolis), and delivery of the first live birth baby.

**Keywords:** Giant myoma, intravenous leiomatosis, Bee propolis, ultrasound

## 1 INTRODUCTION:

Fibroid is the most common benign tumor in women, composed primarily of smooth muscles [1]. These benign neoplasms are classified into subserosal, intramural, interstitial and submucosal varieties based on their location within the myometrium. Histologically, there is proliferation of smooth muscles cells with interspersed fibrous connective tissue. They can undergo Hyaline, Cystic, Calcified, Cameous (red), Septic or Myxomatous degeneration. Septic degeneration is a sequel to secondary infection of necrotic tumor. Uterine leiomyoma can rarely transform into a leiomyosarcoma (LMS). These neoplasm generally asymptomatic, can cause anemia from menorrhagia, pain from ischemia, torsion, infection, infertility and local pressure on adjacent organs (bladder, ureters, and rectum) [2]. Intravenous leiomyomatosis is a rare [3] condition in which the tumor invades into the venous channels of the pelvis and grows by direct extension, sometimes reaching the vena cava and right heart. Leiomyomatosis peritonealis disseminata (LPD) [4] is a benign disease with multiple small nodules over the surface of pelvic and abdominal peritoneum. Giant tumor [5] may attain a huge size without producing appreciable symptoms. The only limit on size seems to be the capability of the patient to bear the size of fibroid.

We represented here a case report gathered giant myoma (58kg), huge number of removed myomas (475), new line of

## 2 SUBJECT AND METHOD:

Female patient aged 38 years old, primary infertility for 20 years, body weight 135 kg complaining of huge pelvi-abdominal mass resulting in breathlessness and fatigue, she had no significant medical or family history, she had used no medications. Physical examination revealed huge mass reaching the xiphisternum palpable with restricted mobility from up to down and free mobility from side to side. Laboratory studies showed anemia (Hb=8 g/dl), all other laboratory test (liver and kidney functions) showed no abnormalities, all the hormonal profile studies (FSH, LH, TSH and prolactin) revealed no abnormalities, all the tumor markers studied revealed no abnormalities. 3D ultra sound, CT and MRI revealed a huge mass together with multiple nodules inside the body reaching the right atrium, lungs and right ventricle. Diameter of the huge single mass by MRI is 70 × 45 × 32 cm, interstitial extended to subserous myoma.

## 3 RESULT:

Laparotomy [6] revealed giant myoma (58kg) fig.(2) and 475 myomas fig.(1) removed from all parts of the body, they are distributed inside the body; skin, subcutaneous tissue, rectus sheath, rectus muscle, peritoneum parietal and visceral peritoneum, surface of the bladder, all subserous and interstitial myoma arising from the uterus, peritoneum of posterior abdominal wall, mesentery, intestine, colon, surface of the stomach, mesenteric blood vessels, right atrium and right ventricle. The treatment for those present in the heart, lungs and right ventricle was Bee propolis 0.5 gram \3 times daily for 2 months. Operative time was three hours, two liters of blood were given during the operation. All the removed myomas were subjected to histopathology to exclude sarcoma.

1- Ali Farid Mohamed Ali: Prof. and Ex-Chairman of the Department of Obstetrics and Gynaecology Ein-Shams University. Head of Heliopolis Infertility Research Center, Ex-Member of the Committee for Election of Prof. Degree in Obstetrics and Gynaecology - Cairo - Egypt. E-mail: [ELShayb1950@yahoo.com](mailto:ELShayb1950@yahoo.com)

treatment (Bee propolis) and first live birth male baby after removal of myomas and intravenous leiomatosis.

Preservation of the uterus is our main goal for future fertility, so myomectomy is the final decision and removal of all myomas, closure of abdomen in layers, post-operative period passed smooth and we started oral Bee propolis [7] tablets 0.5gram\3times daily on the second day post-

operatively, the patient discharged on the third day post-operatively. Pregnancy occurred after six months from laparotomy. Pregnancy passed smooth till 37 weeks, caesarian section was done and delivery of a male living baby 2.995 kg.



Figure (1) low power 1:1

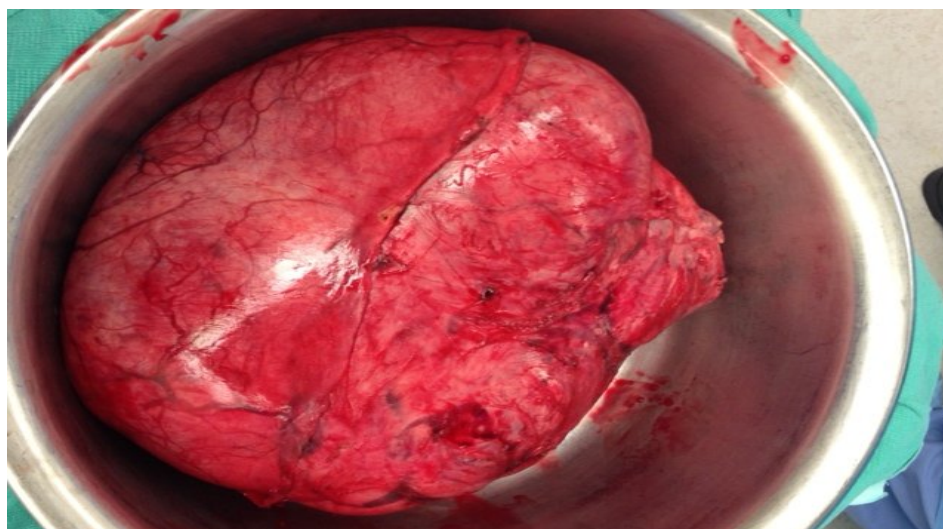


Figure (2) low power magnification 1:100

#### 4 DISCUSSION:

Uterine fibroid is one of the most common benign tumor in females, which have a variable size range from microscopic nodules to a huge size (giant myoma). Fibroid have the character to grow to gigantic size [8], this process is slow and takes long time to occur, during this process many pathological changes take place resulting to be go with differential diagnosis of ovarian malignancy [9] mass with air fluid level [10].

Giant fibroids [11, 12] put these place as a high risk during surgery from extensive adhesions, severe hemorrhage and anatomical distortion, this is not in our case due to great awareness, experience and good preoperative preparation, we introduced for the first time in the literature accumulative classification system for uterine myomas based on four variables (size, time on discovery of the tumor, associated gynecological condition and pathological examination of the removed specimen):

**Size:**Giant 10-20 kilo, Super giant 20-30 kilo, Mega giant 30-40 kilo and Ultra mega giant more than 40 kilo.

**Time on discovery of the tumor:**1- Post mortem 2- Living: - Less than 1 year, -More than 1 year

**Associated gynecological conditions:**Type1: Not associated with any other pathology/Type2:Associated with intravenous leiomyomatosis. Which associated with leiomyomatosis peritonealis or without.

**Pathology of the removed specimen:**Benign or sarcoma Ki-67 index is essential to exclude leiomyosarcoma [13].

The importance of this system is to improve the medical knowledge and help for evaluation of the prognosis of the case, this will remove the dilemma of the size and the time of discovery of the myoma we found in literatures, again this classification help to verify the type of the treatment of the myomas which lies in five items Medical, Surgical, Radiological, Specific treatment and Combined[14] When we put our case in this cumulative classification system we find to the best of our knowledge that it is the largest tumor recorded in the living 58kg, the largest uterine fibroid reported was 140 pounds (63.6kg)[15] in 1888 in the transaction New York, was removed postmortem from a 53 years old woman the patient never suffered from hemorrhage only from pressure symptoms. In 1930 (60.7kg) at Mount Sinai hospital in Philadelphia removed from 33 year old patient died of pneumonia 48 hours after the operation [16].

The largest such tumor removed with survival of the patient was the 100.2 pound (45.4kg) fibroid reported by Singhabhandhu and colleagues in 1973. A 58 year old woman weighting 236 pounds (107.1 kg), whose only complaint for 20 years was gradual enlargement of her

abdomen, had a fibroid measuring 60 X 50 X 30 cm at Piedmont Hospital in Atlanta, Georgia, 34 cases of fibroid tumors weighting more than 40 pounds (18.14 kg) were described between 1878 and 1973 [5]. 2 patients with giant fibroids (88pounds and 95pounds). The patients weight 201 and 240 pound respectively. Both patient survived total abdominal hysterectomy bilateral salpingo oophorectomy at Sheba Medical Center Tel-Aviv University in Israel [11].

Sarcoma can reach a huge size to the best of our knowledge it was (57kg) [17] in a woman presented with a 3 month history of rapidly growing abdominal mass and fatigue, laparotomy was performed and diagnosis was confirmed by pathological and histological analysis, patient refused chemotherapy after surgery and died from recurrence at fourth post-operative month, Even in comparison to our case size (58kg) to leiomyosarcoma (57.kg.), we find that our case is the biggest size.

In reviewing the literature we find that our case is the only case which reached this size and associated with intra venous leiomatosis, our case report is the first one to find in the literature due to the following points: large number of myomas removed (475) myomas and the site of distribution inside the body (skin, subcutaneous tissue, rectus sheath, rectus muscle, omentum, mesentery, intestine (small & large), kidney, inferior vena cava, right atrium, right ventricle, lung, lymph node, brain, bone (femoral) and retroperitoneal.

Regarding the treatment myomectomy is the surgical line of treatment and this is the only case for myomectomy in the literature because hysterectomy is the standard line of treatment of the giant myoma. The myoma which is not accessible for surgical treatment we introduced for the first time in literature Bee propolis as a new medical treatment of the myomas in the literature the proposed previous medical lines of treatment were hormonal, progestin, aromatase inhibitors, gonadotropin releasing hormone agonist (GnRH agonists)[14]. all these lines are incompatible with our case, hence we introduced Bee propolis oral intake 0.5 grams/ 3 times daily /for 2 months, Propolis is a natural product collected by bees from plant sources which is used to seal holes and repair many structures in the hive, The biological activities of propolis include antibacterial, antifungal, antiprotozoal, antiviral, antitumoral, Immunomodulation, anti-inflammatory, Caffeic acid phenethyl ester (CAPE) is the biologically active ingredient of propolis with several interesting biological properties. Besides their well-known antioxidant CAPE inhibits certain enzyme activities such as lipoxygenases, cyclooxygenase, glutathione S transferase and xanthine oxidase, Caffeic acid phenethyl ester (CAPE) has also been reported to have antitumor activity, Anti-



inflammatory properties, Apoptosis inducible functions[19], inhibitory effects of HIV replication and antimetastatic activity [18, 20]

## 5 CONCLUSION:

This is the first case report gathered giant myoma (58kg), huge number of removed myomas (475), new medical treatment (Bee propolis) and myomectomy is the surgical treatment and delivery of the first live birth baby.

## 6 REFERENCES:

- [1] Mememarzadeh s, BorderMS, Wexierr AS, P enrollML. benign disorders of the uterine corpus. In: DeCherney AH, Nathan L., eds. Current obstetrics and gynecology treatment, 9<sup>th</sup>ed. New York: Lange Medical Books\ McGraw-Hill: 2003:693-699.
- [2] Rosai J. Female reproductive system: uterus-corpus. In Ackerman Surgical pathology. 8th ed. St Louis: Mosby: 1996:1429-1433.
- [3] Harper RS. Scully RE. Intravenous leiomyomatosis of the uterus Am J Clin Path 1965;4:45-51
- [4] Turner HD, Wissner SE, Haskins AL. Leiomyomatosis peritonealis disseminate. An unusual complication of genital leiomyomata. Obstet Gynecol 1965;52:561-574
- [5] Singhabhandhu B, Akin JT, Ridley JH, et al .giant leiomyoma of the uterus Am Surge 1973;9:391-397.
- [6] Okezie O, Ezegwui HU. Management of uterine fibroids in Enuge, Nigeria. J. Obstet Gynecol 2006;26(4):363-5
- [7] Ali Farid M. Ali: Bee propolis as a miracle: Prize Paper Presented to the 4th international congress of mediterranean society of reproduction Roma, Italy 10-13 October 2005.
- [8] Evans III A Pratt J. A giant fibroid uterus, Obstet Gynecol 1979;54:385-6
- [9] Aydin C. Eris S. Yalcin Y. Sen Selim H. Agiant cystic leiomyoma mimicking an ovarian malignancy. Int J. Surg Case Rep 2013;4(11):1010-2
- [10] Reddy BV, Lee J, Cunningham PL, giant uterine leiomyoma with air-fluid levels. J-Am collsurg 2004;198:844-845.
- [11] Oelsner G, Elizur SE, Frenkel Y, et al . Giant uterine tumors: two cases with different clinical presentations. Obstet Gynecol 2003;101:1088-1091.
- [12] Savulescu F. Iordache I, Albita O, et al. Giant uterine leiomyoma. Chirurgia 2011;106:665-8.
- [13] H.K. sait. N.M. Anfinan M.E EL Sayed, s.s. Alkayyat A.T. Ghanem R.M. Abayazid et al ., uterine sarcoma . clinic pathological characteristics and outcome Saudi Med. J (2014) vol.35 1215-1222.
- [14] Duhan N. Current and emerging treatment for uterine myoma-an update. Int J. Womens Health 2011;3:231-41.
- [15] Hunter SH. Fibroid weighting one hundred and forty pounds. Am J Obstet 1888;1:62-63.
- [16] Behrend M. Report of a case of fibromyoma of the uterus weighting 133 pounds removed at operation. Am J Obstet Fynecol 1930;20:699-702.
- [17] Taylan senol, Ilker kahramanoglu, beharmuezzinglu, izzet yucesoy. Giant leiomyosarcoma: a case report .International journal of surgery case reports 2016 vol.(19) 19109-111
- [18] Santos et al : Brazilian propolis physicochemical properties phytotherapy Res. 2003;17:285-289.
- [19] Chan WS, Wen PC, Chiang H.C. Structure – activity relationship of caffeic acid analogues on xanthine oxidase inhibition . Anticancer Res., 1995;15:703-7.
- [20] Ali Farid M. Ali, Ermelando V. Cosmi, Sanaa M. Ali and Laila Farid: Bee propolis as a new modality for treatment of H1N1 Influenza Journal of American Science 2013;9(12)P.261-264