

### Vol.5 Issue.4

# Seminal Vesicle Cystadenoma Presenting as a Giant Cystic Abdominal Mass: Case Report and Literature Review

#### **Miry Achraf**

#### **Introduction:**

The seminal vesicles are paired organs that have a posterior location to the bladder and prostate. А seminal vesicle has a capacity for around 4 ml, and has a length of 5-7 cm. The secretions of seminal vesicles make up 80% of seminal fluid [1]. Primary tumors of the seminal vesicles are very rare and could be benign or malignant [2] and Benign tumors, such as cystadenomas are rarer than malignant ones [3]. They are usually present in second and third decades of life. High-resolution trans-rectal ultrasonography (TRUS) guided biopsy can be useful for assisting the diagnosis. CT scan and MRI are more performing techniques to characterize the lesion of the seminal vesicle [1]. Because of the rarity of these tumors, there is no defined treatment for their management [4]. We report the case of an 80 years old patient, with a giant cystadenoma of the seminal vesicle, along with a review of the literature

### Discussion:

Seminal vesicles, as it is for the kidneys, originate Wolffian (mesonephric) duct during from embryogenesis [5]. Among all tumors of the seminal vesicle (SV), benign primary tumors including cystadenomas are the rarest ones [6]. neoplasms include fibromas, Other leiomyosarcomas, schwannomas and papillary adenomas. The unilateral nature of tumor favors primary origin [1]. Seminal vesicle its cystadenoma is a mixed epithelial stromal tumour (MEST) of the seminal vesicle [6]. This tumor originates from the embryological residues of the müllerien ducts. It has been first reported in 1951 Cystadenomas of the seminal vesicle [7]. typically occurs in middle-aged and elderly men. They are almost never bilateral. The diagnosis is typically made on final pathology after surgical resection [8]. In the English literature, About

22cases of cystadenoma of the SV have been reported since 1944 to 2019. The median age of reported cases was 48. Different symptoms were described by patients such us lower abdominal pain, haematospermia, urinary

irritation, dysuria, hematuria. In some cases, no symptoms were recorded [9]. Since the symptoms are non-specific, patients with seminal vesicle cystadenomas are frequently misdiagnosed and could potentially be treated with antibiotic and NSAIDs [4,10]. Occasionally, infertility is the main feature [10]. In most cases, the diagnosis is obtained in adults in the third decades of life [11-16]. The median diameter of the reported tumors was 8.8 cm. The follow-up varied between different cases and recurrence was reported in two cases. Ultrasonography is considered as an important screening test since it is convenient, fast and presents no risk of radiation. The second important screening tool is enhanced CT. allowing determination of the nature if the tumor. MRI accurately defines the anatomic relationships of the tumor and is therefore useful for surgical planning [9]. The clear boundaries of the lesion, the regular shape, and the absence of infiltration provide evidence of a benign behavior Histopathological of the lesion [17]. characterization of the tumor could be obtained through TRUS-guided focused biopsies before surgery [9]. Preoperative needle aspiration biopsy was used in 10 patients in nine reported cases. The use of this technique helped to rule out malignancy in seven cases. It was though impossible to rule out malignancy in the 3 remaining patients [18]. These results can be explained by the predominant cystic nature of the lesion. Histologically, cystadenoma of the

seminal vesicle is made of cysts, of varying number, size and shapes. These cystic lumens are surrounded by a fibrous or fibromuscular connective tissue [19]. A single laver of cuboidal epithelium lines the cystic spaces [20]. There is no standard surgical approach for these tumors because of their rarity. The only curative treatment is surgical resection, either by open or laparoscopic surgery. Although open surgery is the approach of choice, it is more dangerous than laparoscopic surgery since it predisposes to unavoidable great trauma, due to the deep position of the seminal vesicles. Open surgical techniques include transperineal, transvesical, paravesical, retrovesical and transcoccygeal approaches [2]. In 1998's report cases of seminal vesicle cystadenomas have been treated with radical cystoprostatovesiculectomy [21]. Transperitoneal laparoscopic vesiculectomy for seminal vesicle cystadenoma was recently performed. oncological increasingly The outcomes are wonderful and the recovery after surgery is relatively fast [22]. The robotic approach is an effective emerging technique that could be used for the treatment of seminal vesicle Tumors.

# Conclusion:

In our work, we report a case of a giant seminal vesicle cystadenoma in an 80 years-old patient. Benign primary tumors including cystadenomas are the rarest ones. Only about 22 cases of cystadenoma of the SV have been reported since 1944. The diagnosis is typically made on

final pathology. The only curative treatment is surgical resection, either by open or laparoscopicsurgery **References:** 

1. Campbell M (2016) Walsh urology, Elsevier 11: 957.

2. Lorber G, Pizov G, Gofrit ON, Pode D (2011) Seminal vesicle cystadenoma: A rare clinical perspective. European Urology 60: 388-91.

3. Kuai XP, Ding QG, Wang SY, Wu PF, Qiu JM (2017) Rare primary seminal vesicle cystadenoma: Computed tomography and mag- netic resonance imaging findings. Asian J Andr 19: 384-85.

4. Van den Ouden D, Blom JH, Bangma C, de Spiegeleer AH (1998) Diagnosis and management of seminal vesicle cysts associated with ipsilateral renal agenesis: A pooled analysis of 52 cases. Eur Urol 33: 433-40.

5. Heaney JA, Pfister RC, Meares EM Jr (1987) Giant cyst of the seminal vesicle with renal agenesis. AJR Am J Roentgenol 149: 139-40.

6. Reikie BA, Yilmaz A, Medlicott S, Trpkov K (2015) Mixed epithelial- stromal tumor (MEST) of seminal vesicle: A proposal for unified nomenclature. Adv Anatomic Pathol 22: 113-20.

7. Soule EH, Dockerty MB (1951) Cystadenoma of the seminal vesicle, a pathologic curiosity. Report of a case and review of the literature concerning benign tumors of the seminal vesicle. Proc Staff Meet Mayo Clin 26: 406-14.

8. Kaminsky A, Kania U, Ortloff P, Sperling H (2014) Seminal vesicle .

This work is partly presented at Joint Event on 2nd International Conference on Cancer Genetics and Epigenetics November 12-13, 2018 Radisson Hotel Narita Tokyo, Japan