



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

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### Introduction:

The seminal vesicles are paired organs that have a posterior location to the bladder and prostate. A 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 from Wolffian (mesonephric) duct during embryogenesis [5]. Among all tumors of the seminal vesicle (SV), benign primary tumors including cystadenomas are the rarest ones [6]. Other neoplasms include fibromas, leiomyosarcomas, schwannomas and papillary adenomas. The unilateral nature of tumor favors its primary origin [1]. Seminal vesicle 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 [7]. Cystadenomas of the seminal vesicle 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 22 cases 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 as lower abdominal pain, haemospermia, 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 clear boundaries of the lesion, the regular shape, and the absence of infiltration provide evidence of a benign behavior of the lesion [17]. Histopathological 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, cystadenomaoft .

### 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 laparoscopiesurgery

### References:

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