Original research article

**Treatment of pure uterine sarcoma at the Institut Català D'Oncologia**

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**Abstract**

**Aim**

The aim of this retrospective study was to investigate the clinical and histopathological characteristics of the disease and treatment outcome of patients with pure uterine sarcomas.

**Background**

Uterine sarcomas are especially rare tumours, comprising only 3–5% of uterine cancers. They are characterized by histopathological diversity, rapid clinical progression, and poor prognosis. Optimal management consists of complete surgical removal and adjuvant radiotherapy may improve the prognosis.

**Materials and methods**

All patients with pure uterine sarcoma histology treated at our centre, the Institut Català D'Oncologia in Barcelona Spain, between 2002 and 2010 were reviewed.

**Results**

Records of 17 patients treated at our hospital over an 8-year period were obtained. Nine patients (53%) had leiomyosarcoma, 7 (41%) had endometrial stromal sarcoma, and 1 patient had unclassified sarcoma. All patients were treated with external beam radiation after surgical excision. Mean age was 62 years (range, 51–69 years). Of the 17 patients, 13 (76%) presented with stage I disease, 2 (12%) were stage II, and 2 (12%) stage III. The overall actuarial 2-year survival estimate was 82.5%. Two patients experienced local relapse. The 2-year local control rate was 90%. A total of 5 patients experienced either local or metastatic relapse. The 2-year progression free survival rate was 58%.

**Conclusion**

In our experience, combined treatment (surgery and adjuvant radiation therapy) is effective with acceptable side effects. Larger and multicenter studies are needed to assess treatment outcome for pure uterine sarcoma histology.

**Keywords**

Pure uterine sarcoma; Radiotherapy; Gynecology