



# Retroperitoneal Sarcoma Surgery Outcome in a Multi-disciplinary Team Setting of a Quaternary Referral Centre

LG Chui<sup>1</sup>, CH Yee<sup>1</sup>, HM Tam<sup>1</sup>, CK Chan<sup>1</sup>, HH Loong<sup>2</sup>, MD Lacambra<sup>3</sup>, TWC Mak<sup>4</sup>, KC Wong<sup>5</sup>, JYW Lau<sup>6</sup>, PKF Chiu<sup>1</sup>, JYC Teoh<sup>1</sup>, CF Ng<sup>1</sup>

<sup>1</sup>S.H. Ho Urology Centre, Department of Surgery, Prince of Wales Hospital, The Chinese University of Hong Kong.

<sup>2</sup>Department of Clinical Oncology, The Chinese University of Hong Kong.

<sup>3</sup>Department of Anatomical Pathology, The Chinese University of Hong Kong.

<sup>4</sup>Division of Colorectal surgery, Department of Surgery, Prince of Wales Hospital, The Chinese University of Hong Kong.

<sup>5</sup>Department of Orthopaedics & Traumatology, The Chinese University of Hong Kong, Hong Kong SAR.

<sup>6</sup>Division of Vascular Surgery, Department of Surgery, Prince of Wales Hospital, The Chinese University of Hong Kong

## Objective

To review the surgical outcome of patients with retroperitoneal sarcoma managed by a multi-disciplinary team in a quaternary referral centre.

## Patient demographics

- 30 patients
- Mean age at surgery: 54.2 ± 11.3
- Primary resection 63.3% (19) vs Recurrence resection 36.7% (11)
- Multi-disciplinary surgical approach (involving Urology, Vascular, colorectal, orthopaedics)
- 80% en-bloc resection
  - Positive margin in 20 patients
- Pathology

Histology	Number of patients (%)
Dedifferentiated liposarcoma	15 (50%)
Leiomyosarcoma	6 (20%)
Well-differentiated liposarcoma	3 (10%)

## Patients & methods

- A retrospective review of patients with histologically-confirmed retroperitoneal sarcoma who underwent surgical excision between 2010 and 2024.
- Primary end-point: cancer-specific survival
- Secondary end-points:
  - Recurrence
  - Surgical outcomes

## Survival outcomes

	3-year	5-year
Cancer specific survival	72%	67%
Overall survival	68%	64%

## Safety outcomes

- Post-op collection requiring drainage (4)
- Bleeding (2)
- Anastomotic leakage (1)

## Conclusion

- Dedifferentiated liposarcoma is the most common retroperitoneal sarcoma
- While recurrence is common, surgery still offers fair survival outcome