# World Journal of *Clinical Cases*

World J Clin Cases 2021 August 26; 9(24): 6964-7291





Published by Baishideng Publishing Group Inc

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#### **ABOUT COVER**

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The WJCC is now indexed in Science Citation Index Expanded (also known as SciSearch®), Journal Citation Reports/Science Edition, Scopus, PubMed, and PubMed Central. The 2021 Edition of Journal Citation Reports® cites the 2020 impact factor (IF) for WJCC as 1.337; IF without journal self cites: 1.301; 5-year IF: 1.742; Journal Citation Indicator: 0.33; Ranking: 119 among 169 journals in medicine, general and internal; and Quartile category: Q3. The WJCC's CiteScore for 2020 is 0.8 and Scopus CiteScore rank 2020: General Medicine is 493/793.

#### **RESPONSIBLE EDITORS FOR THIS ISSUE**

Production Editor: Ji-Hong Liu; Production Department Director: Yu-Jie Ma; Editorial Office Director: Jin-Lei Wang,

NAME OF JOURNAL	INSTRUCTIONS TO AUTHORS
World Journal of Clinical Cases	https://www.wjgnet.com/bpg/gerinfo/204
<b>ISSN</b>	GUIDELINES FOR ETHICS DOCUMENTS
ISSN 2307-8960 (online)	https://www.wjgnet.com/bpg/GerInfo/287
LAUNCH DATE	GUIDELINES FOR NON-NATIVE SPEAKERS OF ENGLISH
April 16, 2013	https://www.wjgnet.com/bpg/gerinfo/240
FREQUENCY	PUBLICATION ETHICS
Thrice Monthly	https://www.wjgnet.com/bpg/GerInfo/288
<b>EDITORS-IN-CHIEF</b>	PUBLICATION MISCONDUCT
Dennis A Bloomfield, Sandro Vento, Bao-Gan Peng	https://www.wjgnet.com/bpg/gerinfo/208
EDITORIAL BOARD MEMBERS	ARTICLE PROCESSING CHARGE
https://www.wjgnet.com/2307-8960/editorialboard.htm	https://www.wignet.com/bpg/gerinfo/242
PUBLICATION DATE	STEPS FOR SUBMITTING MANUSCRIPTS
August 26, 2021	https://www.wjgnet.com/bpg/GerInfo/239
COPYRIGHT	ONLINE SUBMISSION
© 2021 Baishideng Publishing Group Inc	https://www.f6publishing.com

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World J Clin Cases 2021 August 26; 9(24): 7117-7122

DOI: 10.12998/wjcc.v9.i24.7117

ISSN 2307-8960 (online)

CASE REPORT

# Reconstruction of the chest wall after resection of malignant peripheral nerve sheath tumor: A case report

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Author contributions: All authors substantially contributed to the manuscript; Guo X, Wu WM, Wang L, and Yang Y performed the surgery; Guo X and Yang Y took part in the diagnosis, treatment decision, and manuscript writing; Guo X and Yang Y were the major contributors in writing the manuscript; all authors read and approved the final manuscript.

#### Informed consent statement:

Written informed consent was obtained from the patient for the publication of this case report and any accompanying images.

Conflict-of-interest statement: The authors declare that they have no competing interests to report.

CARE Checklist (2016) statement: The authors have read the CARE Checklist (2016), and the manuscript was prepared and revised according to the CARE Checklist (2016).

Open-Access: This article is an open-access article that was selected by an in-house editor and fully peer-reviewed by external reviewers. It is distributed in

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# Abstract

#### BACKGROUND

Malignant peripheral nerve sheath tumors (MPNSTs) are a group of rare and aggressive sarcomas that often arise from major peripheral nerves and represent a notable challenge to efficacious treatment. MPNSTs can occur in any body surface and visceral organs with nerve fiber distribution. The treatment options for MPNSTs include surgery, chemotherapy, and adjuvant radiotherapy.

#### CASE SUMMARY

A 26-year-old female cellist presented with chest pain on her left side when she squatted to lift the cello. One week later, a chest X-ray was performed and revealed fracture of the fourth rib on the left side. Three months later, the patient inadvertently touched a mass on the left side of the chest wall. Chest computed tomography (CT) three-dimensional reconstruction of the ribs revealed bone destruction of the fourth rib on the left side with a soft tissue mass shadow measuring 5.7 cm × 3.7 cm. CT-guided puncture biopsy of the tumor showed that heterotypic cells (spindle cells) tended to be nonepithelial tumor lesions. PET-CT demonstrated bone destruction and a soft tissue mass with avid 18F-fluorodeoxyglucose activity (SUV<sub>max</sub>7.5) in the left fourth rib. The tumor of the left chest wall was resected under general anesthesia, and reconstruction of the chest wall was performed. The postoperative pathological report exhibited an MPNST.

#### **CONCLUSION**

MPNSTs are relatively chemo-insensitive tumors. The mainstay of treatment for MPNSTs remains resection with tumor-free margins.

Key Words: Malignant peripheral nerve sheath tumor; Chest wall; Reconstruction; Case report

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Manuscript source: Unsolicited manuscript

Specialty type: Surgery

Country/Territory of origin: China

#### Peer-review report's scientific quality classification

Grade A (Excellent): 0 Grade B (Very good): 0 Grade C (Good): C Grade D (Fair): 0 Grade E (Poor): 0

Received: January 1, 2021 Peer-review started: January 1, 2021 First decision: May 24, 2021 Revised: May 27, 2021 Accepted: July 6, 2021 Article in press: July 6, 2021 Published online: August 26, 2021

P-Reviewer: Lee SS S-Editor: Gong ZM L-Editor: Wang TQ P-Editor: Li JH



**Core Tip:** Malignant peripheral nerve sheath tumors (MPNSTs) are a group of rare and aggressive sarcomas that often arise from major peripheral nerves and represent a notable challenge to efficacious treatment. We present a rare case of MPNST of the chest wall in a female cellist who initially presented with a pathological rib fracture. We used the Synthes MatrixRib Precontoured Plate system to reconstruct her chest wall and restore its appearance. The mainstay of treatment for MPNST remains resection with tumor-free margins. Furthermore, functional reconstructions can play an important role in improving functional status.

Citation: Guo X, Wu WM, Wang L, Yang Y. Reconstruction of the chest wall after resection of malignant peripheral nerve sheath tumor: A case report. World J Clin Cases 2021; 9(24): 7117-7122

URL: https://www.wjgnet.com/2307-8960/full/v9/i24/7117.htm DOI: https://dx.doi.org/10.12998/wjcc.v9.i24.7117

## INTRODUCTION

Malignant peripheral nerve sheath tumors (MPNSTs) are a class of rare and aggressive neurogenic malignant tumors, accounting for 5% to 10% of soft tissue sarcomas. The World Health Organization (WHO) named MPNST as a heterogeneous tumor composed of fibroblasts, epithelial cell membrane antigen positive perineural cells, Schwann cells, CD34-positive dendritic cells, and primitive neuroepithelial cells. At present, MPNST is also known as a sarcoma originating from peripheral nerves or malignant transformation of neurofibroma. MPNST can occur in any body surface and visceral organs with nerve fiber distribution[1-4]. We report a case of MPNST of the chest wall in a patient who initially presented with a pathological rib fracture and underwent reconstruction of the chest wall after resection.

## CASE PRESENTATION

#### Chief complaints

A 26-year-old female cellist presented with chest pain on her left side when she squatted to lift the cello. She thought that it was only a muscle strain and did not go to the hospital for treatment. However, chest pain worsened and could not be alleviated. One week later, she sought medical attention for worsened symptoms. A chest X-ray was performed and revealed fracture of the fourth rib on the left side. After oral administration of painkillers for 10 d, the symptoms of chest pain gradually relieved.

#### History of present illness

Three months later, the patient inadvertently touched a mass on the left side of the chest wall, which could be moved without obvious pain. She sought medical attention for this mass.

#### History of past illness

The patient had no significant past medical history or surgical history and did not take any medications.

#### Personal and family history

The patient's personal and family histories were negative.

#### Physical examination

Physical examination revealed a massive (approximately 5.7 cm × 3.7 cm) soft tissue mass bulging from his left anterolateral chest wall.

#### Laboratory examinations

The laboratory examination findings were all within normal limits, including the complete blood count, and kidney and liver function test results. Serum levels of all



female tumor markers were within normal ranges.

#### Imaging examinations

Ultrasound revealed a cystic-solid mass on the left chest wall. A chest computed tomography (CT) three-dimensional reconstruction of the ribs revealed bone destruction of the fourth rib on the left side with a soft tissue mass shadow measuring 5.7 cm × 3.7 cm (Figure 1). CT-guided puncture biopsy of the tumor revealed that heterotypic cells (spindle cells) tended to be nonepithelial tumor lesions. PET-CT showed bone destruction and a soft tissue mass with avid 18F-fluorodeoxyglucose activity (SUV<sub>max</sub>7.5) in the left fourth rib (Figure 2).

#### FINAL DIAGNOSIS

The postoperative pathological report revealed an MPNST measuring 5.7 cm × 4 cm × 3.7 cm. The fourth rib and the intercostal muscle were involved in the tumor. No tumor was found in the third rib and the fifth rib. Immunohistochemical results are as follows: CK (-), CK19 (-), calponin (-), CD34 (-), TLE-1 (+), S100 (-), Ki67 (80% +), NKX2.2 (weakly +), CD99 (-), Bcl-2 (+), SMA (-), H3K27Me3 (-), caldesmon (-), SOX10 (-), NSE (-), and GFAP (-). SYT-related gene translocation was negative. A diagnosis of MPNST of the chest wall was confirmed.

#### TREATMENT

After completing the relevant preoperative examination, the tumor of the left chest wall was resected under general anesthesia and reconstruction of the chest wall was performed. The extent of resection included several partial ribs above and below the lesion (from the upper edge of the 3rd rib to the lower edge of the 5th rib), with surgical margins of 5 cm. Attached structures, including the serratus anterior, the pectoralis minor, the intercostal muscle, and the parietal pleura, were also excised except for the pectoralis major (Figure 3). Rapid frozen pathology showed spindle cell sarcoma and no tumor infiltration in the margin of resection. The chest wall defect was reconstructed with MatrixRib plates, and the soft tissue defect was repaired with a heart Dacron patch. Two drainage tubes were placed superficially to the Dacron patch and thoracic cavity. The thoracotomy was closed routinely.

#### OUTCOME AND FOLLOW-UP

The patient was discharged 7 d after surgery. Three months after the operation, the plates remained intact with no signs of loosening or infection and no local recurrence or metastasis was found on chest CT (Figure 4).

#### DISCUSSION

MPNSTs are a group of rare and aggressive sarcomas that often arise from major peripheral nerves and represent a notable challenge to efficacious treatment. Up to 50% of MPNSTs occur in association with neurofibromatosis type 1 (NF-1), which is present in patients at younger ages and with larger tumors that are commonly associated with extensive plexiform neurofibromas compared with patients without NF1[5,6]. MPNSTs are associated with poorer clinical outcomes. The treatment options for MPNST include surgery, chemotherapy, and adjuvant radiotherapy.

The role of chemotherapy in the management of MPNST remains controversial. In recent years, it has been reported that chemotherapy before and after surgery has a specific effect on MPNST. Preoperative neoadjuvant chemotherapy can reduce the size of the tumor to facilitate resection[7]. In Kroep et al[8]'s report, the doxorubicin-ifosfamide combination tended to yield a lower risk of relapse and had a better response rate. However, according to the study by Zehou et al[9], conventional chemotherapy does not seem to reduce mortality, and its role must be questioned. Recent advances in the molecular biology of MPNST may provide new prognostic factors and targeted therapies<sup>[9]</sup>. Various chemotherapeutic agents have been

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Figure 1 Chest computed tomography three-dimensional reconstruction of the ribs revealed bone destruction of the fourth rib on the left side with a soft tissue mass shadow.



Figure 2 Positron emission tomography/computed tomography showed bone destruction and a soft tissue mass with avid 18Ffluorodeoxyglucose activity (SUV<sub>max</sub>7.5) in the left fourth rib.

> implemented for MPNSTs with the suggestion that many of these agents are less efficacious in NF-1-associated MPNST[10]. The role of radiation is still being defined. Adjuvant radiation is recommended for intermediate or high-grade lesions > 5 cm in size or with difficult margins to improve local control[10,11].

> The only known definitive treatment for MPNST is surgical resection with wide negative margins. The prognostic indicators for MPNST include the tumor grade, presence of distant metastases, and positive surgical resection margins. Wong et al[12] observed that MPNST patients with positive margins exhibited 3-year and 5-year

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Figure 3 The resected specimen.



Figure 4 Chest computed tomography three-dimensional reconstruction of the ribs after operation.

overall survival rates of 47% and 22%, respectively, whereas those with negative margins exhibited higher rates of 74% and 67%, respectively. Complete surgical resection with wide negative margins can offer significant long-term benefits on survival in patients with MPNST and should be the principal goal of MPNST treatment<sup>[13]</sup>. Complete surgical resection can result in large defects requiring reconstruction to maintain chest wall integrity. Previously, methyl methacrylate was the popular choice to reconstruct the bony thorax. Recent advances in rib fixation devices have simplified the procedure, in particular the Synthes MatrixRib Precontoured Plate system[14]. Both muscle and omentum can be used to reconstruct soft tissue defects of the chest wall. Muscle can be transposed as muscle alone or as a musculocutaneous flap and is the tissue of choice for closure of most full-thickness soft tissue defects. The omentum is reserved for partial-thickness reconstruction or as a remedial procedure when muscle is not available or has failed in a previous fullthickness repair[15].

#### CONCLUSION

We present a rare case of MPNST of the chest wall in a female cellist who initially presented with pathological rib fracture. Considering that she is a cellist with a musical dream, we used the Synthes MatrixRib Precontoured Plate system to reconstruct her chest wall and restore its appearance. The pectoralis major without tumor invasion was preserved so that she could still have sufficient strength to play the cello after recovery. In addition, she was just married with no kids. To realize her wish to be a mother, she refused chemotherapy and radiotherapy. In conclusion,



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MPNSTs are relatively chemo-insensitive tumors. Adjuvant radiotherapy is recommended for establishing local control in R1 resections. Therefore, the mainstay of treatment for MPNST remains resection with tumor-free margins. Furthermore, functional reconstructions can play an important role in improving functional status.

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