

Diagnostik und Therapie adulter Weichgewebesarkome

Zehn Empfehlungen zur leitliniengerechten Behandlung

YONCA STEUBING, JENS JAKOB, DIMOSTHENIS ANDREOU, HANS ROLAND DÜRR, STEFFEN FRESE,
THOMAS GÖSLING, THOMAS GRAETER, ROBERT GRÜTZMANN, JÜRGEN HOFFMANN,
BERND KASPER, VLADA KOGOSOV, WOLFRAM TRUDO KNOEFEL, BURKHARD LEHNER,
CORDULA MATTHIES, SELMA UGUREL, PETER HOHENBERGER, MARCUS LEHNHARDT

1. Ressing M, Wardelmann E, Hohenberger P, et al (2018) Strengthening health data on a rare and heterogeneous disease: sarcoma incidence and histological subtypes in Germany. *BMC Public Health* 18: 235
2. Sbaraglia M, Bellan E, Dei Tos AP (2021) The 2020 WHO Classification of soft tissue tumours: news and perspectives. *Pathologica* 113: 70–84
3. Grimer RJ (2006) Size matters for sarcomas! *Ann R Coll Surg Engl* 88: 519–524
4. Charoenlap C, Imanishi J, Tanaka T, et al (2016) Outcomes of unplanned sarcoma excision: impact of residual disease. *Cancer Med* 5: 980–988
5. Perrier L, Buja A, Mastrangelo G, et al (2012) Clinicians' adherence versus non adherence to practice guidelines in the management of patients with sarcoma: a cost-effectiveness assessment in two European regions. *BMC Health Serv Res* 12: 82
6. Melis AS, Vos M, Schuurman MS, et al (2022) Incidence of unplanned excisions of soft tissue sarcomas in the Netherlands: a population-based study. *Eur J Surg Oncol* 48: 994–1000
7. Kalaiselvan R, Malik AK, Rao R, et al (2019) Impact of centralization of services on outcomes in a rare tumour: retroperitoneal sarcomas. *Eur J Surg Oncol* 45: 249–253
8. Blay J-Y, Honoré C, Stoeckle E, et al (2019) Surgery in reference centers improves survival of sarcoma patients: a nationwide study. *Ann Oncol* 30: 1143–1153
9. Jakob J, Andreou D, Bedke J, et al (2023) Ten recommendations for sarcoma surgery: consensus of the surgical societies based on the German S3 guideline „Adult Soft Tissue Sarcomas“. *Langenbecks Arch Surg* 408: 272
10. Leitlinienprogramm Onkologie: Deutsche Krebsgesellschaft, Deutsche Krebshilfe, AWMF (2022) S3-Leitlinie Adulte Weichgewebesarkome, Langversion 1.1, AWMF-Registernummer: 032/044OL
11. Myhre-Jensen O (1981) A consecutive 7-year series of 1331 benign soft tissue tumours. Clinicopathologic data. Comparison with sarcomas. *Acta Orthop Scand* 52: 287–293
12. Nandra R, Forsberg J, Grimer R (2015) If your lump is bigger than a golf ball and growing, think sarcoma. *Eur J Surg Oncol* 41: 1400–1405
13. Cairncross L, Snow HA, Strauss DC, et al (2019) Diagnostic performance of MRI and histology in assessment of deep lipomatous tumours. *Br J Surg* 106: 1794–1799
14. Barrientos-Ruiz I, Ortiz-Cruz EJ, Serrano-Montilla J, et al (2017) Are biopsy tracts a concern for seeding and local recurrence in sarcomas? *Clin Orthop Relat Res* 475: 511–518
15. Berger-Richardson D, Swallow CJ (2017) Needle tract seeding after percutaneous biopsy of sarcoma: risk/benefit considerations. *Cancer* 123: 560–567
16. Birgin E, Yang C, Hetjens S, et al (2020) Core needle biopsy versus incisional biopsy for differentiation of soft-tissue sarcomas: a systematic review and meta-analysis. *Cancer* 126: 1917–1928
17. Dangoor A, Seddon B, Gerrand C, et al (2016) UK guidelines for the management of soft tissue sarcomas. *Clin Sarcoma Res* 6: 20
18. Blay J-Y, Soibinet P, Penel N, et al (2017) Improved survival using specialized multidisciplinary board in sarcoma patients. *Ann Oncol* 28: 2852–2859
19. Gross JL, Younes RN, Haddad FJ, et al (2005) Soft-tissue sarcomas of the chest wall: prognostic factors. *Chest* 127: 902–908
20. Rosenberg SA, Tepper J, Glatstein E, et al (1982) The treatment of soft-tissue sarcomas of the extremities: prospective randomized evaluations of (1) limb-sparing surgery plus radiation therapy compared with amputation and (2) the role of adjuvant chemotherapy. *Ann Surg* 196: 305–315

21. Bickels J, Wittig JC, Kollender Y, et al (2002) Sciatic nerve resection: is that truly an indication for amputation? *Clin Orthop Relat Res* 201–204
22. Sambri A, Caldari E, Fiore M, et al (2021) Margin assessment in soft tissue sarcomas: review of the literature. *Cancers (Basel)* 13: 1687
23. Gundle KR, Kafchinski L, Gupta S, et al (2018) Analysis of margin classification systems for assessing the risk of local recurrence after soft tissue sarcoma resection. *J Clin Oncol* 36: 704–709
24. Sbaraglia M, Dei Tos AP (2019) The pathology of soft tissue sarcomas. *Radiol Med* 124: 266–281
25. Kapalschinski N, Goertz O, Harati K, et al (2015) Plastic surgery in the multimodal treatment concept of soft tissue sarcoma: influence of radiation, chemotherapy, and isolated limb perfusion on plastic surgery techniques. *Front Oncol* 5: 268
26. Keung EZ, Chiang Y-J, Voss RK, et al (2018) Defining the incidence and clinical significance of lymph node metastasis in soft tissue sarcoma. *Eur J Surg Oncol* 44: 170–177
27. Penel N, Coindre J-M, Giraud A, et al (2018) Presentation and outcome of frequent and rare sarcoma histologic subtypes: a study of 10,262 patients with localized visceral/soft tissue sarcoma managed in reference centers. *Cancer* 124: 1179–1187
28. Savina M, Le Cesne A, Blay J-Y, Ray-Coquard I, et al (2017) Patterns of care and outcomes of patients with METAstatic soft tissue SARcoma in a real-life setting: the METASARC observational study. *BMC Med* 15: 78
29. Yang JC, Chang AE, Baker AR, et al (1998) Randomized prospective study of the benefit of adjuvant radiation therapy in the treatment of soft tissue sarcomas of the extremity. *J Clin Oncol* 16: 197–203
30. Eggermont AM, Schraffordt Koops H, Klausner JM, et al (1996) Isolated limb perfusion with tumor necrosis factor and melphalan for limb salvage in 186 patients with locally advanced soft tissue extremity sarcomas. The cumulative multicenter European experience. *Ann Surg* 224: 756–764