



Universiteit
Leiden

The Netherlands

The impact of neoadjuvant systemic therapy on the surgical management of soft tissue sarcoma

Burg, S.J.C. van der

Citation

Burg, S. J. C. van der. (2026, January 15). *The impact of neoadjuvant systemic therapy on the surgical management of soft tissue sarcoma*. Retrieved from <https://hdl.handle.net/1887/4289992>

Version: Publisher's Version

License: [Licence agreement concerning inclusion of doctoral thesis in the Institutional Repository of the University of Leiden](#)

Downloaded from: <https://hdl.handle.net/1887/4289992>

Note: To cite this publication please use the final published version (if applicable).

The impact of neoadjuvant systemic therapy on the surgical management of soft tissue sarcoma

Stijn J.C. van der Burg

The impact of neoadjuvant systemic therapy on the surgical management of soft tissue sarcoma

Proefschrift

ter verkrijging van

de graad van doctor aan de Universiteit Leiden,

op gezag van de rector magnificus prof. dr. ir. H. Bijl,

volgens besluit van het college voor promoties

te verdedigen op donderdag 15-01-2026

klokke 16:00 uur

door

Stijn Johannes Christiaan van der Burg

geboren te 's-Gravenhage

in 1995

Colofon

Copyright 2025 © Stijn J.C. van der Burg

All rights reserved. No parts of this thesis may be reproduced, stored in a retrieval system or transmitted in any form or by any means without permission of the author.

Provided by thesis specialist Ridderprint, ridderprint.nl

Printing: Ridderprint

Layout and design: Ninke van Wiggen, persoonlijkproefschrift.nl

Financial support for the printing of this thesis was kindly provided by the Netherlands Cancer Institute (NKI).

Promotor

Prof. Dr. M.W.J.M. Wouters

Copromotores

Dr. W.J. van Houdt Nederlands Kanker Instituut – Antoni van Leeuwenhoek

Dr. Y.M. Schrage Nederlands Kanker Instituut – Antoni van Leeuwenhoek

Promotiecommissie

Prof. Dr. J.V.M.G. Bovée

Prof. Dr. R.L.M Haas

Dr. I.M.E. Desar Radboud Universitair Medisch Centrum

Dr. R. Hemke Amsterdam Universitair Medisch Centrum

Faculteit der Geneeskunde

Table of contents

Chapter 1	General introduction and outline of this thesis	7
Chapter 2	Neoadjuvant treatment strategies for patients with extremity soft tissue sarcomas across Europe: a survey from the Young and Early Career Investigator (Y-ECI) Soft Tissue and Bone Sarcoma Group (STBSG) of the European Organization for Research and Treatment of Cancer (EORTC) <i>Submitted</i>	23
Chapter 3	The role of [¹⁸ F]FDG PET/CT prior to and during neoadjuvant chemotherapy for soft tissue sarcoma <i>Current Oncology. 2025</i>	41
Chapter 4	Radiologic and pathologic response evaluation after neoadjuvant chemotherapy for retroperitoneal sarcoma: a Transatlantic Australasian Retroperitoneal Sarcoma Working Group (TARPSWG) collaboration. <i>Annals of Surgical Oncology. 2025</i>	61
Chapter 5	The impact of neoadjuvant chemotherapy on radiation associated angiosarcoma (RAAS) of the breast: a retrospective single center study <i>The Breast. 2024</i>	77
Chapter 6	Neoadjuvant imatinib in locally advanced gastrointestinal stromal tumors (GIST) is effective and safe: results from a prospective single center study with 108 patients <i>Annals of Surgical Oncology. 2023</i>	93
Chapter 7	Improvement of perioperative outcomes of gastric gastrointestinal stromal tumor resections and the influence of minimal invasive surgery <i>European Journal of Surgical Oncology. 2024</i>	111
Chapter 8	Magnetic seed localization is feasible for non-palpable melanoma, Merkel cell carcinoma, and soft tissue sarcoma lesions <i>European Journal of Surgical Oncology. 2024</i>	131
Chapter 9	General discussion and future perspectives	147
Appendices	Summary	164
	Samenvatting	166
	Curriculum Vitae	169
	Dankwoord	170