



Universiteit
Leiden
The Netherlands

ASO visual abstract: intraoperative Ultrasound During Surgical Exploration in Patients with Pancreatic Cancer and Vascular Involvement (ULTRAPANC) a prospective multicenter study

Michiels, N.; Doppenberg, D.; Groen, J.V.; Veldhuisen, E. van; Bonsing, B.A.; Busch, O.R.; ... ; Dutch Pancreatic Canc Grp

Citation

Michiels, N., Doppenberg, D., Groen, J. V., Veldhuisen, E. van, Bonsing, B. A., Busch, O. R., ... Mieog, J. S. D. (2023). ASO visual abstract: intraoperative Ultrasound During Surgical Exploration in Patients with Pancreatic Cancer and Vascular Involvement (ULTRAPANC): a prospective multicenter study. *Annals Of Surgical Oncology*, 30(6), 3464-3465.
doi:10.1245/s10434-023-13181-4

Version: Publisher's Version

License: [Licensed under Article 25fa Copyright Act/Law \(Amendment Taverne\)](#)

Downloaded from: <https://hdl.handle.net/1887/3722161>

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



ASO VISUAL ABSTRACT

ASO Visual Abstract: Intraoperative Ultrasound During Surgical Exploration in Patients with Pancreatic Cancer and Vascular Involvement (ULTRAPANC)—A Prospective Multicenter Study

Nynke Michiels, MD¹ , Deesje Doppenberg, MD^{2,3}, Jesse V. Groen, MD¹, Eran van Veldhuisen, MD^{2,3}, Bert A. Bonsing, MD, PhD¹, Olivier R. Busch, MD, PhD^{2,3}, A. Stijn L. P. Crobach, MD, PhD⁴, Otto M. van Delden, MD, PhD^{3,5}, Susan van Dieren, MD, PhD^{2,3}, Arantza Farina, MD, PhD^{3,6}, Ignace H. J. T. de Hingh, MD, PhD⁷, Rob Hurks, MD, PhD^{3,5}, Joost Nederend, MD, PhD⁸, Shirin Shahbazi Feshtali, MD⁹, Yeliz Tank, MD⁹, Alexander L. Vahrmeijer, MD, PhD¹, Martin Wasser, MD, PhD⁹, Marc G. Besselink, MD, PhD^{2,3}, J. Sven D. Mieog, MD, PhD¹, and Dutch Pancreatic Cancer Group

¹Department of Surgery, Leiden University Medical Center, Leiden, The Netherlands; ²Department of Surgery, Amsterdam UMC, Location University of Amsterdam, Amsterdam, The Netherlands; ³Cancer Center Amsterdam, Amsterdam, The Netherlands; ⁴Department of Pathology, Leiden University Medical Center, Leiden, The Netherlands; ⁵Department of Interventional Radiology, Amsterdam UMC, Location University of Amsterdam, Amsterdam, The Netherlands; ⁶Department of Pathology, Amsterdam UMC, Location University of Amsterdam, Amsterdam, The Netherlands; ⁷Department of Surgery, Catharina Hospital, Eindhoven, The Netherlands; ⁸Department of Radiology, Catharina Hospital, Eindhoven, The Netherlands; ⁹Department of Radiology, Leiden University Medical Center, Leiden, The Netherlands

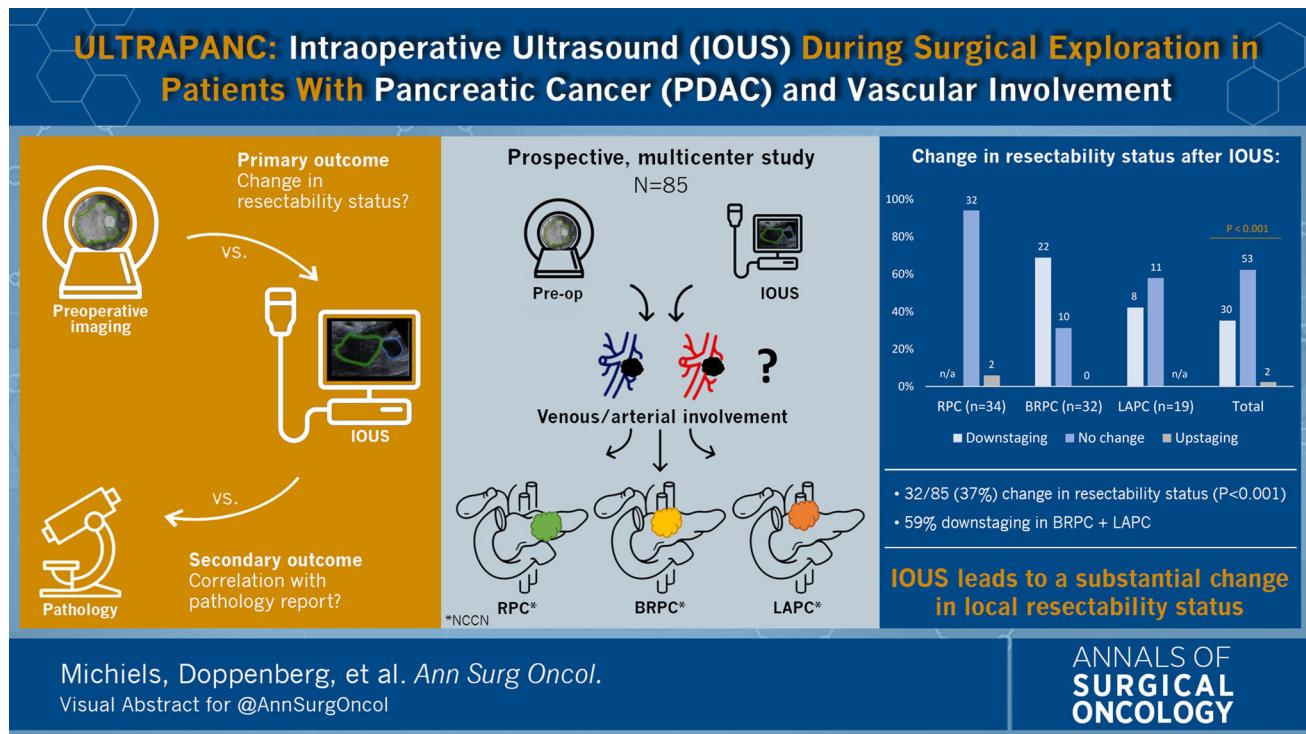
Intraoperative ultrasound is being used during surgical exploration in patients with pancreatic cancer and vascular involvement to assess resectability, especially following

chemotherapy. In this study (<https://doi.org/10.1245/s10434-023-13112-3>), intraoperative ultrasound changed the resectability status in 32/85 patients (38%), mainly down-

Nynke Michiels and Deesje Doppenberg share first authorship on this work.

Marc G. Besselink and J. Sven D. Mieog share senior authorship on this work.

The abstract from this study was presented as a poster presentation at the 40th European Society of Surgical Oncology Congress, 8–10 November 2021, Lisbon, Portugal.



staging (30/32 patients; 94%).

FUNDING This study was supported by a Bas Mulder Award (UL2015-7665) from the Alpe d'Huzes Foundation/Dutch Cancer Society (JSDM).

DISCLOSURES Nynke Michiels, Deesje Doppenberg, Jesse V. Groen, Eran van Veldhuisen, Bert A. Bonsing, Olivier R. Busch, A.

Stijn L.P. Crobach, Otto M. van Delden, Susan van Dieren, Arantza Farina, Ignace H.J.T. de Hingh, Rob Hurks, Joost Nederend, Shirin Shahbazi Feshthali, Yeliz Tank, Alexander L. Vahrmeijer, Martin Wasser, Marc G. Besselink, and J. Sven D. Mieog have no conflicts of interest to declare.

Publisher's Note Springer Nature remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.