



RESEARCH, DEVELOPMENT AND EDUCATION

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Annual report 2023

Department of Oncology
Department of Clinical Medicine



AALBORG UNIVERSITY
DENMARK



AALBORG UNIVERSITY HOSPITAL

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Preface

We are pleased to present the annual report of the scientific research, development and education (RDE) 2023.

Organising and planning research, development and education is fundamental for the quality of all scientific work. Thus, our updated [Research Strategy Plan 2023-2027](#) is the fourth version since 2013.

During 2023, **the RDE committee** has contributed with active discussions covering all types of scientific questions. Also, the **Research Council** have made excellent work by auditing and prioritising new scientific protocols.

Postdoc stay abroad continued

In 2023, we continued our scientific collaboration in the field of radioresistance in rectal cancer with Dr Max Diehn's research group at the Stanford University Medical School. Most of our regular meetings were online but a short physical stay for one of our postdocs was possible. In 2024, we are planning to send a medical student for a one-year stay (Lundbeck scholar) to Stanford.

Publication rate, PhD degrees

The collective publication rate in 2023 is 77 with 50 full papers. One PhD-student finished a thesis and was awarded the PhD degree.

Education and examination

The education of medical students, today around 160 per year, consisted of both clinical and theoretic teaching and involved the academic lecturers, PhD students and clinicians. Generally, the 4 to 6 students stayed 3 weeks at our clinic. Theoretic teaching was made for each student group according to a basic education programme in clinical oncology, also including basic radiation physics, experimental protocols and nutrition in cancer patients. During the clinical education each student followed their assigned cancer team during their 3 weeks stay at the Dept. of Oncology. The students have been asked to evaluate the education programme continuously. For examination, the students examined cancer patients from our wards.

In summary

2023 was a productive year for our research group in clinical oncology. The small group of scientists were stable, working close together, which strengthened our scientific milieu. The education program for medical and paramedical students was handled together and resulted in improvement of our educational skills. In scientific research several projects were started with external funds.

In 2024, we want further to enhance and utilise our collective scientific skills of our research group in ongoing and new projects. The goal is to advance the scientific quality of our results to the benefit of cancer patients and their families. Our main focus will be to stabilise the research group, promoting young scientists and involve our clinicians, students and nurses in the scientific cancer research area.

We would like to thank all our local, national, and international collaborators, as well as our patients participating in clinical and scientific protocols.

On behalf of the Research Group Oncology:

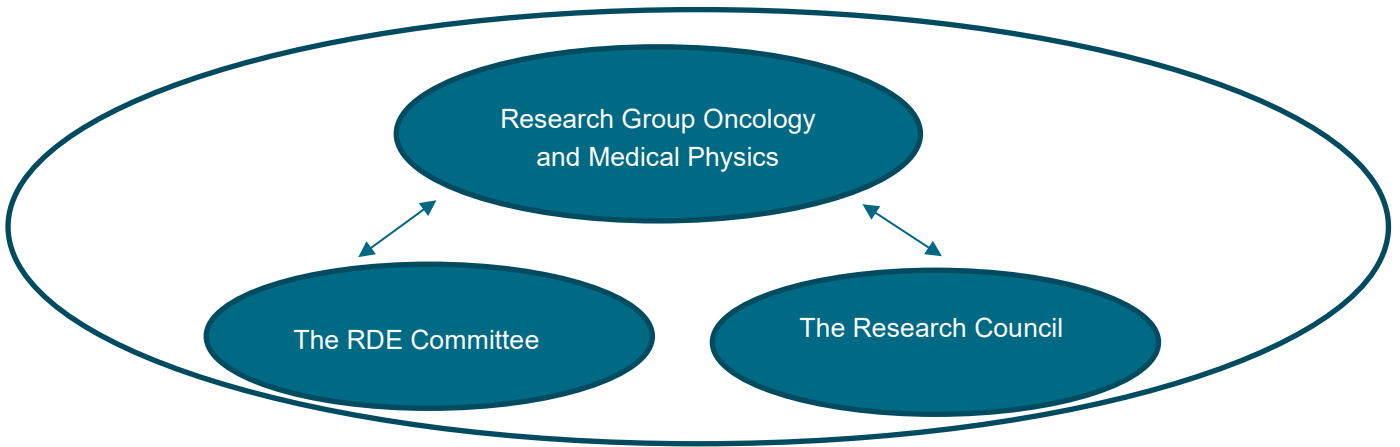
Ursula Falkmer, MD, PhD, professor, research leader
 Morten Ladekarl, MD, PhD, professor
 Andreas Carus, MD, PhD, clinical associate professor
 Martin Skovmos Nielsen, med. physics, PhD
 Tine McCulloch, MD, physician
 Laurids Østergaard Poulsen, Associate MD PhD
 Weronika Szejniuk, MD PhD
 Helle Enggaard, Postdoc, cand. cur., PhD
 Lone Rosborg Nielsen, research nurse
 Lone Grambo Jensen, nurse leader
 Dennis Tideman Arp, PhD student
 Susy Shim, PhD student
 Charlotte Rotbøll, leading physician
 Anders Krog Vistisen, leading physician
 Christina Elmer, Research Coordinator

RDE Committe 2023



Research, Development and Education

Organisation



Strategy

The core mission of scientific research and development is specified in our current Research Plan 2023-2027. Our strategy is in line with the overall mission and vision of Aalborg University Hospital, the Clinical Cancer Research Centre at Aalborg University Hospital, and the Dept. of Clinical Medicine, Faculty of Medicine, Aalborg University.

Scientific areas

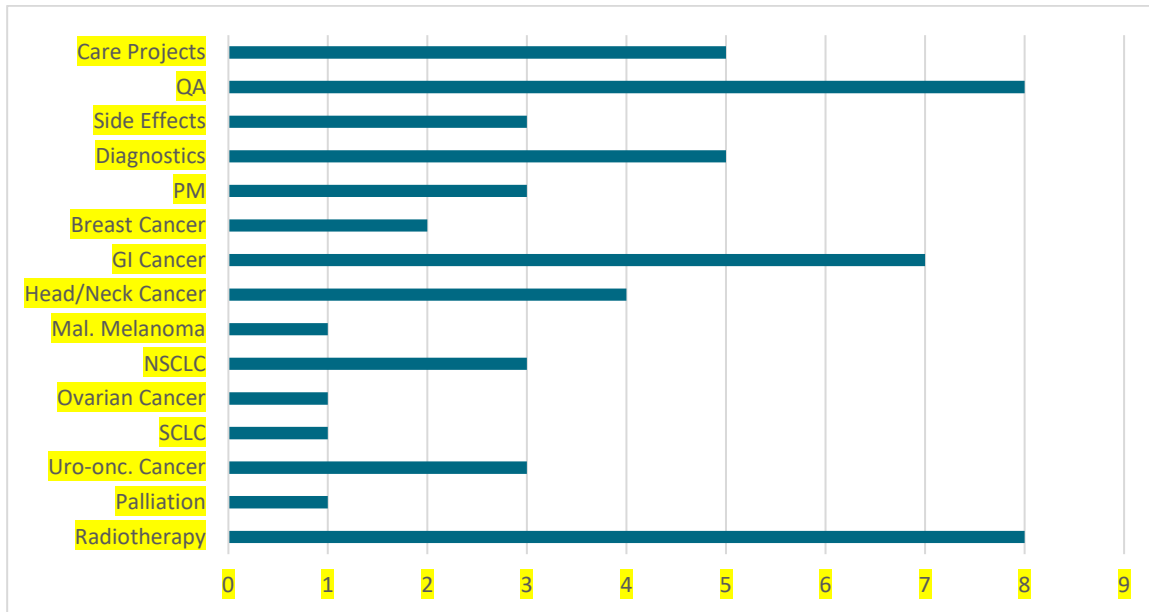
Generally, the scientific projects are focused on exploring new knowledge on

- cancer diagnostics, prognostics, treatment, and care
- side effects and late complications of cancer treatment
- achievements within specialized palliative medicine
- cancer treatment economics

Research activities

Ongoing projects

[Link to ongoing projects](#)



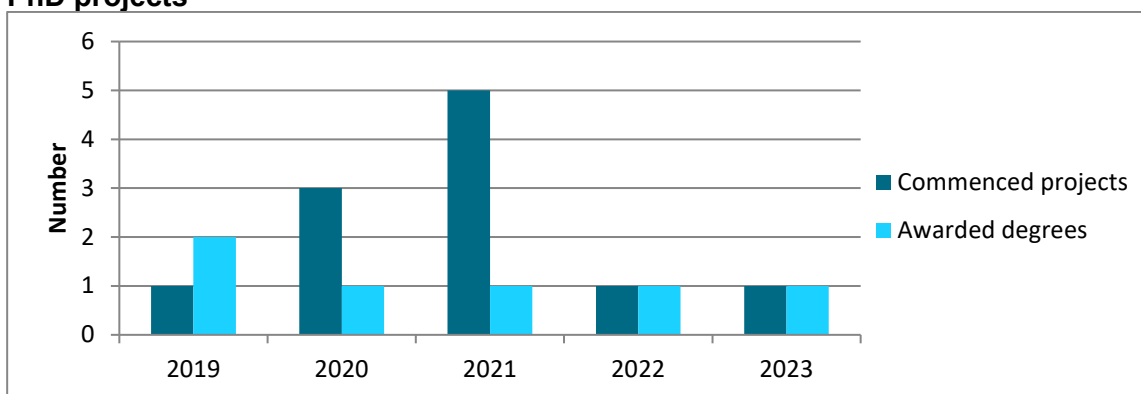
PhD students

	2019	2020	2021	2022	2023
*Mette Thune Mouritzen, MD Treatment with immune checkpoint inhibitors and biomarker expression in advanced NSCLC	ongoing	ongoing	ongoing	ongoing	defence
*Dennis Tideman Arp, M.Sc. Physicist Characterization of patient specific PTV-based on multiple MRI scans before and during treatment to obtain adaptive treatment strategy for radiation dose escalation.	start	ongoing	ongoing	ongoing	ongoing
Anna Slipsager, MD Chemoradiation and molecular genetics in rectal cancer		Pre-PhD	Start	ongoing	ongoing
Susy Shim, MD Prognostic and predictive factors in oncological treatment of patients with pancreas and stomach cancer		Pre-PhD	Start	ongoing	ongoing

Mette Overgaard Holm, MSc, clinical dietitian Radiation-induced diarrhea in pelvic cancer during curative external radiotherapy. The role of nutritional interventions	Pre-PhD	Start	ongoing	ongoing	ongoing
Mathias Holmsgaard Ekseesen Febrile Neutropenia: Incidence, etiology and prognosis.					Start
Hubert Kzryslak SCLC: methabolic and proteomic investigations		Start	ongoing	ongoing	ongoing
Lars Børty Nielsen Risk factors for high systemic anti-cancer therapy costs		Start	ongoing	ongoing	Ongoing
Hella Maria Brøgger Sand Dual-Energy CT til planlægning af strålebehandling til kræftpatienter					Pre-PhD

*The PhD students work part-time in the clinic; thus, their PhD period spans over 5-6 years.

PhD projects

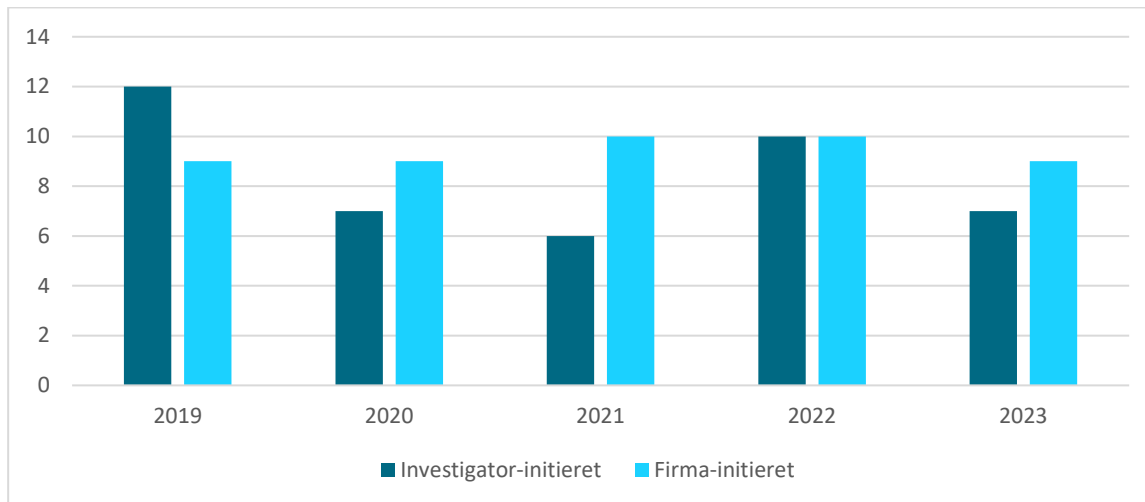


PhD theses awarded	2023	Principal and Co-supervisors
Mette Thune Mouritzen	Learning from the past - optimizing future use of immune checkpoint inhibitors in advanced NSCLC	Andreas Carus, Morten Ladekarl og Henrik Hager

Clinical Research Unit

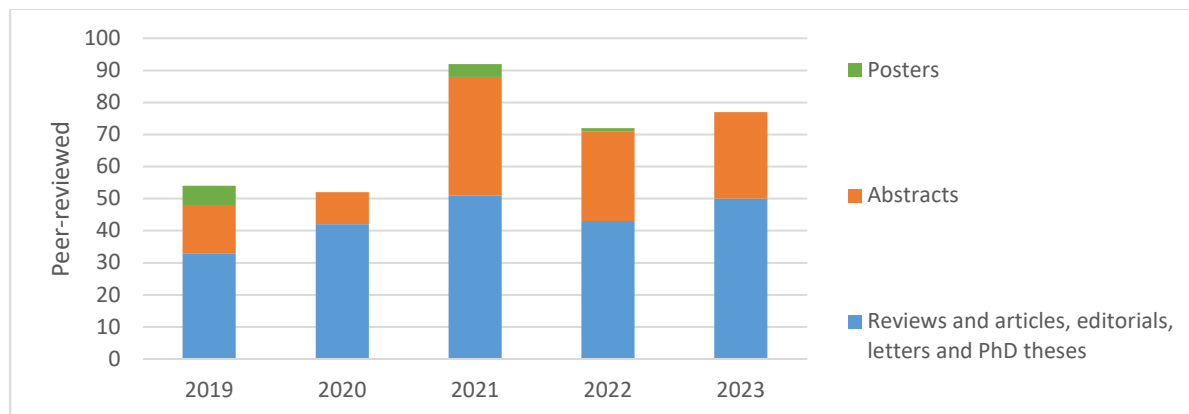
9 protocols have been initiated in 2023 by industrial sponsors and 7 protocols are academic initiated. For further information, see [Annual Report](#) from the Clinical Research Unit.

Number of initiated protocols



Peer reviewed publications

Publications, in total 77



Type	Publikationsart	Antal
Bidrag til tidsskrift - Tidsskriftartikel	Forskning	41
Bidrag til tidsskrift - Letter	Forskning	2
Bidrag til tidsskrift - Review (oversigtsartikel)	Forskning	2
Bidrag til tidsskrift - Kommentar/debat	Forskning	3
Bidrag til tidsskrift - Konferenceabstrakt i tidsskrift	Forskning	27
Bidrag til bog/antologi/rapport/konference proceeding - Bidrag til bog/antologi	Undervisning	1
Working paper/Preprint - Preprint	Forskning	1
I alt		77

Education

At the Faculty of Medicine, the number of medical students has continuously increased and in 2023, the number was 140 annually. During their 4th year of education (internal medicine and surgery) most of the students are placed three weeks at the Dept. of Oncology.

All scientific staff as well as the PhD students are regularly involved in clinical teaching and lectures.

Education, training and examinations:

Medical students	Type	Students
8 th semester, spring	Case teaching	Approx. 52
8 th semester, spring	Introduction lectures	6
7 th semester, autumn	Case teaching	Approx. 61
7 th semester, autumn	Introduction lectures	6
12 th semester, spring	Examinations	3
PhD-students		Participants
Supervision	Pre-PhD projects	1
Research student supervision	Bachelor projects	4
	Masters projects	1

Radiotherapy unit		Students/hours
3 rd semester Spring, Introduction course for Radiographer students	Classroom teaching Two days (8 lessons per day)	Approx. 30 students
3 rd semester Autumn, Introduction course for Radiographer students	Classroom teaching Two days (8 lessons per day)	Approx. 30 students
6 th semester Spring, Radiotherapy S-Radiographer	Combined classroom and case teaching Tree weeks course (75 hours)	4-5 students
6 th semester Autumn, Radiotherapy S-Radiographer	Combined classroom and case teaching Tree weeks course (75 Hours)	4-5 students
7 th semester UCN/AAUH	Bachelor project	One student
10 th semester AAU/AAUH	Master project	One Student
o Dialogue meetings, seminars, workshops, training inhouse on new techniques in radiotherapy.		Once a month
o Teaching and Training of physicist in new treatment guideline (DMCGs)		Three months

Academic staff

Senior scientists

Positions	2019	2020	2021	2022	2023
Professor, one position (50%)	2.0	2.0	2.0	2.0	2.0
Associate professors (clinical lector) one position (20%)	3.0	3.0	3.0	3.0	5
Post Doc, cand.cur., one position (100%)	1.0	1.0	1.0	1.0	1.0
Lector, one position (20%)	1.0	2.0	2.0	2.0	2.0
Secretary, one position (50%)	1.0	1.0	1.0	1.0	1.0

Junior scientists

Positions	2019	2020	2021	2022	2023
Clinical assistant, one position (100%)	2.0	2.0	2.0	2.0	2.0

Clinical Research Unit

Positions	2019	2020	2021	2022	2023
Senior physician, one position	0.5	0.5	0.5	0.5	0.7
Senior physicians, (12 fulltime positions, approx. 20% involved in scientific research)	2.2	2.2	2.2	2.2	2.2
Study nurses and 1.8 secretary 10 positions, approx. 10% involved in scientific re- search	1.0	1.0	1.0	1.0	2.8

Financial report

External financing

	Amount in 1,000 DKK (approx.)
Local grants (balance as of 31 December 2023):	
- Obel fund	290
- Trial Nation	210
- Neye Fund	169
- Jens Aage Sørensen and wife memorial fund (AMPERE)	288
- Jørgen Holm and wife Elisa F. Hansen's memorial fund	100
- Scandion Oncology	279
- Aage and Johanne Louis-Hansen's fund	250
- Aalborg Universitet	44
- Grants from DCCC	491
- Kræftens Bekæmpelse	255
- Sundheds- og ældreministeriet	18
- H.E. and N.C. Brogaard Fund	1.800
- Ebba and Aksel Schølin's fund	15
- KKFC	38
- Aarhus University Hospital	80
- Klinik Kirurgi og Kræftbehandling	138
Donation fund	45
Heritage – Boet efter Villy Naundrup Petersen	396
Ph.d. Projects	322
Faglig udvikling, Palliative Team	88
UNCAN EU	48
Total	5,364

The support for academic protocols from the clinical research unit is not included.

Scientific publications

5-Year survival in Danish patients with advanced non-small cell lung cancer treated with immune checkpoint inhibitor monotherapy

Bjørnhart, B., Mouritzen, M. T., Kristiansen, C., Schytte, T., Wedervang, K., Pøhl, M. & Holmskov Hansen, K., aug. 2023, I: *Acta Oncologica*. 62, 8, s. 861-870 10 s.

Publikation: Bidrag til tidsskrift › Tidsskriftartikel › Forskning › peer review

Analysis of circulating tumor DNA during checkpoint inhibition in metastatic melanoma using a tumor-agnostic panel

Kisistók, J., Christensen, D. S., Rasmussen, M. H., Duval, L., Aggerholm-Pedersen, N., Luczak, A. A., Sorensen, B. S., Jakobsen, M. R., Oellegaard, T. H. & Birkbak, N. J., okt. 2023, I: *Melanoma Research*. 33, 5, s. 364-374 11 s.

Publikation: Bidrag til tidsskrift › Tidsskriftartikel › Forskning › peer review

A national repository of complete radiotherapy plans: design, Results, and experiences

Krogh, S. L., Brink, C., Lorenzen, E. L., Samsøe, E., Vogelius, I. R., Zukauskaitė, R., Offersen, B. V., Eriksen, J. G., Hansen, O., Johansen, J., Olloni, A., Ruhlmann, C. H., Hoffmann, L., Nissen, H. D., Skovmos Nielsen, M., Andersen, K., Grau, C. & Hansen, C. R., okt. 2023, I: *Acta Oncologica*. 62, 10, s. 1161-1168 8 s.

Publikation: Bidrag til tidsskrift › Tidsskriftartikel › Forskning › peer review

A nationwide observational study in heavily pretreated metastatic HER2-positive breast cancer patients

Due, A., Berg, T., Jensen, M-B., Yammeni, S., Volmer, L., Brems-Eskildsen, A. S., Andersen, K. K., Rana, S., Knoop, A. & Kümler, I., 17 mar. 2023, I: *Acta Oncologica*. 62, 2, s. 126-133 8 s.

Publikation: Bidrag til tidsskrift › Tidsskriftartikel › Forskning › peer review

A randomized phase II study of full dose gemcitabine versus reduced dose gemcitabine and nab-paclitaxel in vulnerable patients with non-resectable pancreatic cancer (DPCG-01)

Rasmussen, L. S., Winther, S. B., M. Chen, I., Weber, B., Ventzel, L., Liposits, G., Johansen, J. S., Detlefsen, S., Egendal, I., Shim, S., Christensen, S., Pfeiffer, P. & Ladekarl, M., 16 jun. 2023, I: *BMC Cancer*. 23, 1, 552.

Publikation: Bidrag til tidsskrift › Tidsskriftartikel › Forskning › peer review

Blækreft

Joensen, U. N., Kingo, P. S., Stormoen, D. R., Carus, A. & Pappot, H., 3 apr. 2023, I: *Ugeskrift for Laeger*. 185, 7, s. 711-713 3 s., V02230082.

Publikation: Bidrag til tidsskrift › Tidsskriftartikel › Forskning › peer review

Circulating immune response proteins predict the outcome following disease progression of osimertinib treated epidermal growth factor receptor-positive non-small cell lung cancer patients

Maansson, C. T., Helstrup, S., Ebert, E. B. F., Meldgaard, P. & Sorensen, B. S., 31 jan. 2023, I: *Translational lung cancer research*. 12, 1, s. 14-26 13 s.

Publikation: Bidrag til tidsskrift › Tidsskriftartikel › Forskning › peer review

Clinical outcomes of ALK+ non-small cell lung cancer in Denmark

Hansen, K. H., Johansen, J. S., Urbanska, E. M., Meldgaard, P., Hjorth-Hansen, P., Kristiansen, C., Stelmach, M., Santoni-Rugiu, E., Ulhøi, M. P., Dydensborg, A. B., Dünweber, C. & Andersen, J. L., dec. 2023, I: *Acta Oncologica*. 62, 12, s. 1775-1783 9 s.

Publikation: Bidrag til tidsskrift › Tidsskriftartikel › Forskning › peer review

Collaboration and learning in teams of registered nurses and medical doctors: A qualitative descriptive study

Jacobsen, H. R., Jørgensen, L. & Pedersen, B., jan. 2023, I: *Nordic Journal of Nursing Research*. 43, 1, 10 s.

Publikation: Bidrag til tidsskrift › Tidsskriftartikel › Forskning › peer review

Consistency in contouring of organs at risk by artificial intelligence vs oncologists in head and neck cancer patients

Nielsen, C. P., Lorenzen, E. L., Jensen, K., Sarup, N., Brink, C., Smulders, B., Holm, A. I. S., Samsøe, E., Nielsen, M. S., Sibolt, P., Skyt, P. S., Elstrøm, U. V., Johansen, J., Zukauskaitė, R., Eriksen, J. G., Farhadi, M., Andersen, M., Maare, C., Overgaard, J., Grau, C., Friborg, J. & Hansen, C. R., nov. 2023, I: *Acta Oncologica*. 62, 11, s. 1418-1425 8 s.

Publikation: Bidrag til tidsskrift › Tidsskriftartikel › Forskning › peer review

Development of a national deep learning-based auto-segmentation model for the heart on clinical delineations from the DBCG RT nation cohort

Skarsø, E. R., Refsgaard, L., Saini, A., Sloth Møller, D., Lorenzen, E. L., Maae, E., Andersen, K., Maraldo, M. V., Milo, M. L., Nyeng, T. B., Offersen, B. V. & Korreman, S. S., okt. 2023, I: *Acta Oncologica*. 62, 10, s. 1201-1207 7 s.

Publikation: Bidrag til tidsskrift › Tidsskriftartikel › Forskning › peer review

Does coronary artery calcium score have an impact on overall survival for locally advanced non-small cell lung cancer treated with definitive radiotherapy

Olloni, A., Brink, C., Lorenzen, E. L., Jeppesen, S. S., Hoffmann, L., Kristiansen, C., Knap, M. M., Møller, D. S., Nygård, L., Persson, G. F., Thing, R. S., Sand, H. MB., Diederichsen, A. & Schytte, T., aug. 2023, I: *Radiotherapy and Oncology*. 185, 109719.

Publikation: Bidrag til tidsskrift › Tidsskriftartikel › Forskning › peer review

End-to-end framework for automated collection of large multicentre radiotherapy datasets demonstrated in a Danish Breast Cancer Group cohort

Refsgaard, L., Skarsø, E. R., Ravkilde, T., Nissen, H. D., Olsen, M., Boye, K., Laursen, K. L., Bekke, S. N., Lorenzen, E. L., Brink, C., Thorsen, L. B. J., Offersen, B. V. & Korreman, S. S., jul. 2023, I: *Physics and imaging in radiation oncology*. 27, 100485.

Publikation: Bidrag til tidsskrift › Tidsskriftartikel › Forskning › peer review

Epidemiology, outcomes, and prognostic factors in submandibular gland carcinomas: a national DANCA study

Westergaard-Nielsen, M., Godballe, C., Eriksen, J. G., Larsen, S. R., Kiss, K., Agander, T., Ulhøi, B. P., Charabi, B. W., Klug, T. E., Jacobsen, H., Johansen, J., Kristensen, C. A., Andersen, E., Andersen, M. & Bjørndal, K., jul. 2023, I: *European Archives of Oto-Rhino-Laryngology*. 280, 7, s. 3405-3413 9 s.

Publikation: Bidrag til tidsskrift › Tidsskriftartikel › Forskning › peer review

Feasibility and early clinical impact of precision medicine for late-stage cancer patients in a regional public academic hospital

Ladekarl, M., Nøhr, A. K., Sønderkær, M., Dahl, S. C., Sunde, L., Vestereghem, C., Mapendano, C. K., Haslund, C. A., Pagh, A., Carus, A., Lörincz, T., Nowicka-Matus, K., Poulsen, L. Ø., Laursen, R. J., Dybkær, K., Poulsen, B. K., Frøkjær, J. B., Brüggmann, A. H., Ernst, A., Wanders, A., Bøgsted, M. & Pedersen, I. S., mar. 2023, I: *Acta Oncologica*. 62, 3, s. 261-271 11 s.

Publikation: Bidrag til tidsskrift › Tidsskriftartikel › Forskning › peer review

Gene Expressions and High Lymphocyte Count May Predict Durable Clinical Benefits in Patients with Advanced Non-Small-Cell Lung Cancer Treated with Immune Checkpoint Inhibitors

Mouritzen, M. T., Ladekarl, M., Hager, H., Mattesen, T. B., Lippert, J. B., Frank, M. S., Nøhr, A. K., Egendal, I. B. & Carus, A., 8 sep. 2023, I: *Cancers*. 15, 18, s. 4480 4480.

Publikation: Bidrag til tidsskrift › Tidsskriftartikel › Forskning › peer review

Geometric distortions in clinical MRI sequences for radiotherapy: insights gained from a multicenter investigation

Hasler, S. W., Kallehauge, J. F., Hansen, R. H., Samsøe, E., Arp, D. T., Nissen, H. D., Edmund, J. M., Bernchou, U. & Mahmood, F., nov. 2023, I: *Acta Oncologica*. 62, 11, s. 1551-1560 10 s.

Publikation: Bidrag til tidsskrift › Tidsskriftartikel › Forskning › peer review

Germline pathogenic variants in patients with high-grade gastroenteropancreatic neuroendocrine neoplasms

Venizelos, A., Sorbye, H., Elvebakken, H., Perren, A., Lothe, I. M. B., Couvelard, A., Hjortland, G. O., Sundlöf, A., Svensson, J., Garresori, H., Kersten, C., Hofslie, E., Detlefsen, S., Vestermark, L. W., Ladekarl, M., Tabaksblat, E. M. & Knappskog, S., 1 okt. 2023, I: *Endocrine-Related Cancer*. 30, 10, 12 s., e230057.

Publikation: Bidrag til tidsskrift › Tidsskriftartikel › Forskning › peer review

GLIM diagnosed malnutrition predicts clinical outcomes and Quality of Life in patients with non-small cell lung cancer

Landgrebe, M., Tobberup, R., Carus, A. & Rasmussen, H. H., feb. 2023, I: *Clinical Nutrition*. 42, 2, s. 190-198 9 s.

Publikation: Bidrag til tidsskrift › Tidsskriftartikel › Forskning › peer review

HPV testing versus p16 immunohistochemistry in oropharyngeal squamous cell carcinoma: results from the DAHANCA 19 study

Lilja-Fischer, J. K., Kristensen, M. H., Lassen, P., Steiniche, T., Tramm, T., Stougaard, M., Maare, C., Johansen, J., Primdahl, H., Kristensen, C. A., Andersen, M., Eriksen, J. G. & Overgaard, J., nov. 2023, I: *Acta Oncologica*. 62, 11, s. 1384-1388 5 s.

Publikation: Bidrag til tidsskrift › Tidsskriftartikel › Forskning › peer review

Immunterapiens rolle i behandlingen af kolorektalcancer

Orhan, A., Mørup, S., Poulsen, L. Ø., Pfeiffer, P., Qvortrup, C. & Gögenur, I., 18 dec. 2023, I: *Ugeskrift for Læger*. 185, 8 s., V06230371.

Publikation: Bidrag til tidsskrift › Tidsskriftartikel › Forskning › peer review

Outcomes of emergency surgical interventions in right-sided colonic cancer: nationwide population-based study based on Danish Colorectal Cancer Group register

El-Hussuna, A., Knudsen, M., Frasson, M. & Poulsen, L. Ø., feb. 2023, I: *BJS Open*. 7, 1, zrac153.

Publikation: Bidrag til tidsskrift › Tidsskriftartikel › Forskning › peer review

Oxaliplatin causes increased offset analgesia during chemotherapy - a feasibility study

Mørch, C. D., Szpejewska, J. E., Poulsen, L. Ø., Yilmaz, M. N., Falkmer, U. G. & Arendt-Nielsen, L., 26 okt. 2023, I: *Scandinavian Journal of Pain*. 23, 4, s. 729-734 6 s.

Publikation: Bidrag til tidsskrift › Tidsskriftartikel › Forskning › peer review

Phase II study of everolimus and temozolomide as first-line treatment in metastatic high-grade gastroenteropancreatic neuroendocrine neoplasms

Morken, S., Langer, S. W., Sundlöf, A., Vestermark, L. W., Ladekarl, M., Hjortland, G. O., Svensson, J. B., Tabaksblat, E. M., Haslerud, T. M., Assmus, J., Detlefsen, S., Couvelard, A., Perren, A. & Sorbye, H., 7 dec. 2023, I: *British Journal of Cancer*. 129, 12, s. 1930-1939 10 s.

Publikation: Bidrag til tidsskrift › Tidsskriftartikel › Forskning › peer review

Plan robustness evaluation strategies in whole-pelvic proton therapy for high-risk prostate cancer patients within a randomised clinical trial

Tilbæk, S., Petersen, S. E., Stolarczyk, L., Vestergaard, A., Rønne, H. S., Bentzen, L. N., Søndergaard, J., Høyer, M. & Muren, L. P., nov. 2023, I: *Acta Oncologica*. 62, 11, s. 1455-1460 6 s.

Publikation: Bidrag til tidsskrift › Tidsskriftartikel › Forskning › peer review

Prognostic value of baseline functional status measures and geriatric screening in vulnerable older patients with metastatic colorectal cancer receiving palliative chemotherapy - The randomized NORDIC9-study

Liposits, G., Ryg, J., Skuladottir, H., Winther, S. B., Möller, S., Hofslí, E., Shah, C-H., Poulsen, L. Ø., Berglund, Å., Qvortrup, C., Osterlund, P., Glimelius, B., Sorbye, H. & Pfeiffer, P., jan. 2023, I: Journal of geriatric oncology. 14, 1, 101408.

Publikation: Bidrag til tidsskrift › Tidsskriftartikel › Forskning › peer review

Prostatakræft

Borre, M., Brodersen, J. B., Jakobsen, H., Søndergaard, J., Poulsen, M. H. & Røder, A., 3 apr. 2023, I: Ugeskrift for Læger. 185, 7A, s. 714-717 V10220588.

Publikation: Bidrag til tidsskrift › Tidsskriftartikel › Forskning › peer review

ProTarget: a Danish Nationwide Clinical Trial on Targeted Cancer Treatment based on genomic profiling – a national, phase 2, prospective, multi-drug, non-randomized, open-label basket trial

Kringelbach, T., Højgaard, M., Rohrberg, K., Spanggaard, I., Laursen, B. E., Ladekarl, M., Haslund, C. A., Harsløf, L., Belcaid, L., Gehl, J., Søndergaard, L., Eefsen, R. L., Hansen, K. H., Kodahl, A. R., Jensen, L. H., Holt, M. I., Oellegaard, T. H., Yde, C. W., Ahlborn, L. B. & Lassen, U., 22 feb. 2023, I: BMC Cancer. 23, 1, 12 s., 182.

Publikation: Bidrag til tidsskrift › Tidsskriftartikel › Forskning › peer review

Proton therapy planning and image-guidance strategies within a randomized controlled trial for high-risk prostate cancer

Tilbæk, S., Muren, L. P., Vestergaard, A., Stolarczyk, L., Rønde, H. S., Johansen, T. S., Søndergaard, J., Høyer, M., Alsner, J., Bentzen, L. N. & Petersen, S. E., jul. 2023, I: Clinical and translational radiation oncology. 41, 100632.

Publikation: Bidrag til tidsskrift › Tidsskriftartikel › Forskning › peer review

Quality of life and mental health in real-world patients with resected stage III/IV melanoma receiving adjuvant immunotherapy

Pedersen, S., Holmstroem, R. B., von Heymann, A., Tolstrup, L. K., Madsen, K., Petersen, M. A., Haslund, C. A., Ruhlmann, C. H., Schmidt, H., Johansen, C., Svane, I. M. & Ellebaek, E., 16 jan. 2023, I: Acta Oncologica. 62, 1, s. 62-69 8 s.

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