

Stine Sofia Korremann
Professor
Department of Clinical Medicine - Department of Medical Physics
Department of Clinical Medicine - The Department of Oncology
Postal address:
Nørrebrogade 44
8000
Aarhus C
Denmark
Postal address:
Nørrebrogade 44
5
8000
Aarhus C
Denmark
Email: stine.korreman@oncology.au.dk



Employment

Honorary fellow

University of Wisconsin-Madison
Madison, United States
1 Sept 2015 → 30 Jun 2016

Head of Department

Roskilde University
Roskilde, Denmark
1 Aug 2010 → 31 Jul 2015

Visiting scholar

University of Wisconsin-Madison
Madison, United States
1 Sept 2009 → 30 Jun 2010

Research scholar

Stanford University
Menlo Park, United States
1 Sept 2003 → 15 May 2004

Medical physicist, chief research physicist

University of Copenhagen
Copenhagen, Denmark
1 Sept 2000 → 31 Jul 2010

Research outputs

The effect of coronary artery calcifications and radiotherapy on the risk of coronary artery disease in high-risk breast cancer patients in the DBCG RT-Nation cohort

Refsgaard, L., Holm Milo, M. L., Buhl, E. S., Jensen, J. M., Maae, E., Berg, M., Jensen, I., Nielsen, M. H., Lorenzen, E. L., Thorsen, L. B. J., Korreman, S. S. & Offersen, B. V., Mar 2025, In: Radiotherapy and Oncology. 204, 110705.

Quality assurance of internal mammary node irradiation in the DBCG IMN2 study

Refsgaard, L., Buhl, E. S., Nielsen, A. W. M., Thomsen, M. S., Andersen, K., Jensen, I., Berg, M., Lorenzen, E. L., Thorsen, L. B. J., Overgaard, J., Korreman, S. S. & Offersen, B. V., Jan 2025, In: Radiotherapy and oncology : journal of the European Society for Therapeutic Radiology and Oncology. 202, p. 110600 110600.

Artificial intelligence uncertainty quantification in radiotherapy applications – A scoping review

Wahid, K. A., Kaffey, Z. Y., Farris, D. P., Humbert-Vidan, L., Moreno, A. C., Rasmussen, M., Ren, J., Naser, M. A., Netherton, T. J., Korreman, S., Balakrishnan, G., Fuller, C. D., Fuentes, D. & Dohopolski, M. J., Dec 2024, In: Radiotherapy and Oncology. 201, 110542.

Development and comprehensive evaluation of a national DBCG consensus-based auto-segmentation model for lymph node levels in breast cancer radiotherapy

Buhl, E. S., Lorenzen, E. L., Refsgaard, L., Nielsen, A. W. M., Brixen, A. T. L., Maae, E., Holm, H. S., Schøler, J., Thai, L. M. H., Matthiessen, L. W., Maraldo, M. V., Nielsen, M. M., Johansen, M. B., Milo, M. L., Mogensen, M. B., Nielsen, M. H., Møller, M., Sand, M., Schultz, P. & Al-Rawi, S. A. J. & 5 others, Esser-Naumann, S., Yammeni, S., Petersen, S. E., Offersen, B. V. & Korreman, S. S., Dec 2024, In: Radiotherapy and Oncology. 201, 110567.

Is full-automation in radiotherapy treatment planning ready for take off?

Callens, D., Malone, C., Carver, A., Fiandra, C., Gooding, M. J., Korreman, S. S., Matos Dias, J., Popple, R. A., Rocha, H., Crijns, W. & Cardenas, C. E., Dec 2024, In: Radiotherapy and Oncology. 201, 110546.

Fully automated radiotherapy treatment planning: A scan to plan challenge

Gooding, M. J., Aluwini, S., Guerrero Urbano, T., McQuinlan, Y., Om, D., Staal, F. H. E., Perennec, T., Azzarouali, S., Cardenas, C. E., Carver, A., Korreman, S. S. & Bibault, J. E., Nov 2024, In: Radiotherapy and Oncology. 200, 110513.

Evaluating Danish Breast Cancer Group locoregional radiotherapy guideline adherence in clinical treatment data 2008–2016: The DBCG RT Nation study

Refsgaard, L., Skarsø Buhl, E., Yates, E., Maae, E., Berg, M., Al-Rawi, S., Saini, A., Vestmø Maraldo, M., Boye, K., Louise Holm Milo, M., Jensen, I., Wichmann Matthiessen, L., Nørring Bekke, S., Holck Nielsen, M., Laugaard Lorenzen, E., Bech Jellesmark Thorsen, L., Sofia Korreman, S. & Vrou Offersen, B., Oct 2024, In: Radiotherapy and Oncology. 199, 6 p., 110289.

Geometrical and dosimetrical evaluation of different interpretations of a european consensus delineation guideline for the internal mammary lymph node chain in breast cancer patients

Buhl, E. S., Wortel, G., Simões, R., Scholten, A., Offersen, B. V., Korreman, S. & Janssen, T., Oct 2024, In: Physics and Imaging in Radiation Oncology. 32, 100676.

Potential of E-Learning Interventions and Artificial Intelligence-Assisted Contouring Skills in Radiotherapy: The ELAISA Study

Rasmussen, M. E., Akbarov, K., Titovich, E., Nijkamp, J. A., Van Elmpt, W., Primdahl, H., Lassen, P., Cacicedo, J., Cordero-Mendez, L., Uddin, A. F. M. K., Mohamed, A., Prajogi, B., Brohet, K. E., Nyongesa, C., Lomidze, D., Prasiko, G., Ferraris, G., Mahmood, H., Stojkovski, I. & Isayev, I. & 14 others, Mohamad, I., Shirley, L., Kochbati, L., Eftodiev, L., Piatkevich, M., Jara, M. M. B., Spahiu, O., Aralbayev, R., Zakirova, R., Subramaniam, S., Kibudde, S., Tsegmed, U., Korreman, S. S. & Eriksen, J. G., 1 Sept 2024, In: JCO global oncology. 10, e2400173.

Enhancing the reliability of deep learning-based head and neck tumour segmentation using uncertainty estimation with multi-modal images

Ren, J., Teuwen, J., Nijkamp, J., Rasmussen, M., Gouw, Z., Grau Eriksen, J., Sonke, J. J. & Korreman, S., 5 Aug 2024, In: Physics in Medicine and Biology. 69, 16, 165018.

A joint ESTRO and AAPM guideline for development, clinical validation and reporting of artificial intelligence models in radiation therapy

Hurkmans, C., Bibault, J. E., Brock, K. K., van Elmpt, W., Feng, M., David Fuller, C., Jerezek-Fossa, B. A., Korreman, S., Landry, G., Madesta, F., Mayo, C., McWilliam, A., Moura, F., Muren, L. P., El Naqa, I., Seuntjens, J., Valentini, V. & Velec, M., Aug 2024, In: Radiotherapy and Oncology. 197, 110345.

DiffuseRT: predicting likely anatomical deformations of patients undergoing radiotherapy

Smolders, A., Rivetti, L., Vatterodt, N., Korreman, S., Lomax, A., Sharma, M., Studen, A., Weber, D. C., Jeraj, R. & Albetini, F., Aug 2024, In: Physics in Medicine and Biology. 69, 15, 155016.

RadDeploy: A framework for integrating in-house developed software and artificial intelligence models seamlessly into radiotherapy workflows

Ersted Rasmussen, M., Dueholm Vestergaard, C., Folsted Kallehauge, J., Ren, J., Haislund Guldborg, M., Nørrevang, O., Vindelev Elstrøm, U. & Sofia Korreman, S., Jul 2024, In: Physics and Imaging in Radiation Oncology. 31, 100607.

The effect of editing clinical contours on deep-learning segmentation accuracy of the gross tumor volume in glioblastoma
Hochreuter, K. M., Ren, J., Nijkamp, J., Korreman, S. S., Lukacova, S., Kallehauge, J. F. & Trip, A. K., Jul 2024, In: Physics and Imaging in Radiation Oncology. 31, 100620.

Associations Between Radiation Oncologist Demographic Factors and Segmentation Similarity Benchmarks: Insights From a Crowd-Sourced Challenge Using Bayesian Estimation

Wahid, K. A., Sahin, O., Kundu, S., Lin, D., Alanis, A., Tehami, S., Kamel, S., Duke, S., Sherer, M. V., Rasmussen, M., Korreman, S., Fuentes, D., Cislo, M., Nelms, B. E., Christodouleas, J. P., Murphy, J. D., Mohamed, A. S. R., He, R., Naser, M. A. & Gillespie, E. F. & 1 others, Fuller, C. D., 1 Jun 2024, In: JCO Clinical Cancer Informatics. 8, p. e2300174 e2300174.

ESTRO-ACROP guideline for positioning, immobilisation and setup verification for local and loco-regional photon breast cancer irradiation

Mast, M. E., Leong, A., Korreman, S. S., Lee, G., Probst, H., Scherer, P. & Tsang, Y., Dec 2023, In: Technical Innovations and Patient Support in Radiation Oncology. 28, 100219.

Classification of laterality and mastectomy/lumpectomy for breast cancer patients for improved performance of deep learning auto segmentation

Vivancos Bargalló, H., Stick, L. B., Korreman, S. S., Kronborg, C., Nielsen, M. M., Borgen, A. C., Offersen, B. V., Nørrevang, O. & Kallehauge, J. F., Nov 2023, In: Acta Oncologica. 62, 11, p. 1546-1550 5 p.

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

Buhl, E. S., Refsgaard, L., Saini, A., Møller, D. S., Lorenzen, E. L., Maae, E., Andersen, K., Maraldo, M. V., Milo, M. L., Nyeng, T. B., Offersen, B. V. & Korreman, S. S., Oct 2023, In: Acta Oncologica. 62, 10, p. 1201-1207 7 p.

New technologies from bench to bedside - report from the Nordic association for clinical physics 2023 symposium

Korreman, S. S., Behrens, C. P., Hansen, V. N., Thygesen, J. & Andersen, T. L., Oct 2023, In: Acta oncologica (Stockholm, Sweden). 62, 10, p. 1157-1160 4 p.

Determining The Role Of Radiation Oncologist Demographic Factors On Segmentation Quality: Insights From A Crowd-Sourced Challenge Using Bayesian Estimation

Wahid, K. A., Sahin, O., Kundu, S., Lin, D., Alanis, A., Tehami, S., Kamel, S., Duke, S., Sherer, M. V., Rasmussen, M., Korreman, S., Fuentes, D., Cislo, M., Nelms, B. E., Christodouleas, J. P., Murphy, J. D., Mohamed, A. S. R., He, R., Naser, M. A. & Gillespie, E. F. & 1 others, Fuller, C. D., 5 Sept 2023, medRxiv.

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, In: Physics and Imaging in Radiation Oncology. 27, 100485.

Patient anatomy-specific trade-offs between sub-clinical disease coverage and normal tissue dose reduction in head-and-neck cancer

Kaplan, L. P., Holm, A. I. S., Eriksen, J. G., Heijmen, B. J. M., Korreman, S. S. & Rossi, L., May 2023, In: Radiotherapy and Oncology. 182, 8 p., 109526.

Robustness of multifield pseudo-arc proton therapy for sinonasal cancer

Argota-Perez, R., Elstrøm, U. V., Jensen, K. & Korreman, S. S., May 2023, In: Acta oncologica (Stockholm, Sweden). 62, 5, p. 508-512 5 p.

A simple single-cycle interactive strategy to improve deep learning-based segmentation of organs-at-risk in head-and-neck cancer

Rasmussen, M. E., Nijkamp, J. A., Eriksen, J. G. & Korreman, S. S., Apr 2023, In: Physics and Imaging in Radiation Oncology. 26, 6 p., 100426.

Towards interactive deep-learning for tumour segmentation in head and neck cancer radiotherapy

Wei, Z., Ren, J., Korreman, S. S. & Nijkamp, J., Jan 2023, In: Physics and Imaging in Radiation Oncology. 25, 8 p., 100408.

Dose and robustness comparison of nominal, daily and accumulated doses for photon and proton treatment of sinonasal cancer

Argota-Perez, R., Sharma, M. B., Elstrøm, U. V., Møller, D. S., Grau, C., Jensen, K., Holm, A. I. & Korreman, S. S., Aug 2022, In: Radiotherapy and oncology : journal of the European Society for Therapeutic Radiology and Oncology. 173, p. 102-108 7 p.

The 3rd ESTRO-EFOMP core curriculum for medical physics experts in radiotherapy

Garibaldi, C., Essers, M., Heijmen, B., Bertholet, J., Koutsouveli, E., Schwarz, M., Bert, C., Bodale, M., Casares-Magaz, O., Gerskevitch, E., Koniarova, I., Korreman, S., Lisbona, A., Lopez Medina, A., Maas, A., Moeckli, R., Moore, M., Petrovic, B., Piotrowski, T. & Poli, E. & 7 others, Prezado, Y., Reynaert, N., Redalen, K. R., Stylianou Markidou, E., Verellen, D., Jorret, N. & Clark, C. H., May 2022, In: Radiotherapy and Oncology. 170, p. 89-94 6 p.

Evaluating principal component analysis models for representing anatomical changes in head and neck radiotherapy

Argota-Perez, R., Robbins, J., Green, A., Herk, M. V., Korreman, S. & Vásquez-Osorio, E., Apr 2022, In: Physics and Imaging in Radiation Oncology. 22, p. 13-19 7 p.

Comparing Deep Learning and Conventional Machine Learning for Outcome Prediction of Head and Neck Cancer in PET/CT

Huynh, B.-N., Ren, J., Groendahl, A. R., Tomic, O., Korreman, S. S. & Futsaether, C. M., 13 Mar 2022, *Head and Neck Tumor Segmentation and Outcome Prediction - 2nd Challenge, HECKTOR 2021, Held in Conjunction with MICCAI 2021, Proceedings: HECKTOR 2021, Held in Conjunction with MICCAI 2021, Strasbourg, France, September 27, 2021, Proceedings*. Cham: Springer, p. 318-326 9 p. (Lecture Notes in Computer Science, Vol. 13209).

PET Normalizations to Improve Deep Learning Auto-Segmentation of Head and Neck Tumors in 3D PET/CT

Ren, J., Huynh, B. N., Groendahl, A. R., Tomic, O., Futsaether, C. M. & Korreman, S. S., Mar 2022, *Head and Neck Tumor Segmentation and Outcome Prediction - 2nd Challenge, HECKTOR 2021, Held in Conjunction with MICCAI 2021, Proceedings: Second Challenge, HECKTOR 2021, Held in Conjunction with MICCAI 2021, Strasbourg, France, September 27, 2021, Proceedings*. Andriarczyk, V., Oreiller, V., Hatt, M. & Depeursinge, A. (eds.). Cham: Springer, p. 83-91 9 p. (Lecture Notes in Computer Science, Vol. 13209).

Target coverage and local recurrences after radiotherapy for sinonasal cancer in Denmark 2008–2015. A DAHANCA study

Sharma, M. B., Jensen, K., Friberg, J., Smulders, B., Andersen, E., Samsøe, E., Johansen, J., Hansen, C. R., Andersen, M., Nielsen, M. S., Filtenborg, M. V., Ren, J., Korreman, S. S., Overgaard, J. & Grau, C., 2022, In: Acta Oncologica. 61, 2, p. 120-126 7 p.

Comparing different CT, PET and MRI multi-modality image combinations for deep learning-based head and neck tumor segmentation

Ren, J., Eriksen, J. G., Nijkamp, J. & Korreman, S. S., Nov 2021, In: Acta Oncologica. 60, 11, p. 1399-1406 8 p.

A systematically compiled set of quantitative metrics to describe spatial characteristics of radiotherapy dose distributions and aid in treatment planning

Kaplan, L. P. & Korreman, S. S., Oct 2021, In: Physica Medica. 90, p. 164-175 12 p.

Air variability in maxillary sinus during radiotherapy for sinonasal carcinoma

Sharma, M. B., Argota Perez, R., Holm, A. I. S., Korreman, S. S., Jensen, K., Elstrøm, U. V. & Grau, C., Mar 2021, In: Clinical and Translational Radiation Oncology. 27, p. 36-43 8 p.

The changing role of radiation oncology professionals in a world of AI – Just jobs lost – Or a solution to the under-provision of radiotherapy?

Korreman, S., Eriksen, J. G. & Grau, C., Jan 2021, In: Clinical and Translational Radiation Oncology. 26, p. 104-107 4 p.

Novel technologies in radiotherapy in the Nordic countries - report from the NACP2020/21 conference

Korreman, S. S., Vogelius, I. R., Abdi, A. J., Hansen, S. B. & Behrens, C. P., 2021, In: Acta Oncologica. 60, 11, p. 1383-1385 3 p.

The role of computational methods for automating and improving clinical target volume definition

Unkelbach, J., Bortfeld, T., Cardenas, C. E., Gregoire, V., Hager, W., Heijmen, B., Jeraj, R., Korreman, S. S., Ludwig, R., Pouymayou, B., Shusharina, N., Söderberg, J., Toma-Dasu, I., Troost, E. G. C. & Vasquez Osorio, E., Dec 2020, In: Radiotherapy and Oncology. 153, p. 15-25 11 p.

Designing a graphite calorimeter for scintillator quenching measurements

Christensen, J. B., Santurio, G. V., Vestergaard, A., Korreman, S. S. & Andersen, C. E., 2020, In: Radiation Measurements. 132, 5 p., 106277.

Matchmaking Day IFA 2020

Korreman, S. S., 2020.

Proton radiotherapy for left-sided breast cancer in patients with pectus excavatum anatomy

Korreman, S., Andreasen, S., Petersen, J. B. B. & Offersen, B., Apr 2019, p. S352-S354. 3 p.

Proton therapy for esophageal cancer; variable relative biological effect and heart dose

Byskov, C. S., Holm, A. I. S., Korreman, S. S., Hoffmann, L., Nordmark, M. & Moller, D. S., Apr 2019, p. S509-S510. 2 p.

Radiation therapy of sinonasal carcinoma: A multidimensional study of sequelae and quality of life

Sharma, M. B., Jensen, K., Urbak, S. F., Funding, M., Korreman, S. S. & Grau, C., Mar 2019, p. 76-77. 2 p.

Robustness of elective lymph node target coverage with shrinking Planning Target Volume margins in external beam radiotherapy of locally advanced cervical cancer

Berger, T., Fokdal, L. U., Assenholt, M. S., Jensen, N. B. K., Petersen, J. B. B., Nyvang, L., Korreman, S., Lindegaard, J. C. & Tanderup, K., 2019, In: Physics and Imaging in Radiation Oncology. 11, p. 9-15 7 p.

Rethink radiotherapy - BIGART 2017

Gräu, C., Høyer, M., Poulsen, P. R., Muren, L. P., Korreman, S. S., Tanderup, K., Lindegaard, J. C., Alsner, J. & Overgaard, J., 2 Nov 2017, In: Acta Oncologica. 56, 11, p. 1341-1352 12 p.

Image-guided radiotherapy and motion management in lung cancer

Korreman, S. S., 2015, In: British Journal of Radiology. 88, 1051, 12 p., 20150100.

Recurrences after intensity modulated radiotherapy for head and neck squamous cell carcinoma more likely to originate from regions with high baseline [18F]-FDG uptake

Due, A. K., Vogelius, I. R., Aznar, M. C., Bentzen, S. M., Berthelsen, A. K., Korreman, S. S., Loft, A., Kristensen, C. A. & Specht, L., Jun 2014, In: Radiotherapy & Oncology. 111, 3, p. 360-5 6 p.

Irregular breathing during 4DCT scanning of lung cancer patients: is the midventilation approach robust?

Aznar, M. C., Persson, G. F., Kofoed, I. M., Nygaard, D. E. & Korreman, S. S., Feb 2014, In: Physica Medica. 30, 1, p. 69-75 7 p.

Motion management during IMAT treatment of mobile lung tumors-A comparison of MLC tracking and gated delivery

Falk, M., Pommer, T., Keall, P., Korreman, S. S., Persson, G., Poulsen, P. R. & Munck Af Rosenschöld, P., 2014, In: Medical Physics. 41, 10, 8 p., 101707.

Percutaneously implanted markers in peripheral lung tumours: Report of complications

Persson, G. F., Josipovic, M., Nygaard, D. E., Recke, P. V. D., Aznar, M., Juhler-Nottrup, T., Rosenschöld, P. M. A., Korreman, S. & Specht, L., Aug 2013, In: Acta Oncologica. 52, 6, p. 1225-1229 5 p.

Evaluation of methods for selecting the midventilation bin in 4DCT scans of lung cancer patients
Nygaard, D. E., Persson, G. F., Brink, C., Specht, L. & Korreman, S. S., 2013, In: Acta Oncologica. 52, 8, p. 1715-1722 8 p.

Semi- and virtual 3D dosimetry in clinical practice
Korreman, S. S., 2013, In: Journal of Physics: Conference Series. 444, 1, 012007.

Stability of percutaneously implanted markers for lung stereotactic radiotherapy
Persson, G. F., Josipovic, M., Recke, P. V. D., Aznar, M. C., Juhler-Nøttrup, T., Rosenschöld, P. M. A., Korreman, S. & Specht, L., 2013, In: Journal of Applied Clinical Medical Physics. 14, 5, p. 187-195 9 p.

Motion in radiotherapy: Photon therapy
Korreman, S. S., 7 Dec 2012, In: Physics in Medicine and Biology. 57, 23

A Dosimetric Comparison of MLC Tracking and Gated Delivery of Arc Therapy to a Moving Target
Falk, M., Larsson, T., Keall, P., Korreman, S., Nygaard, D., Persson, G., Poulsen, P. & af Rosenschöld, P. M., 1 Nov 2012, p. S733-S733. 1 p.

Interobserver delineation variation in lung tumour stereotactic body radiotherapy
Persson, G. F., Nygaard, D. E., Hollensen, C., Af Rosenschöld, P. M., Mouritsen, L. S., Due, A. K., Berthelsen, A. K., Nyman, J., Markova, E., Roed, A. P., Roed, H., Korreman, S. & Specht, L., Sept 2012, In: British Journal of Radiology. 85, 1017

Methods for estimating the site of origin of locoregional recurrence in head and neck squamous cell carcinoma
Due, A. K., Vogelius, I. R., Aznar, M. C., Bentzen, S. M., Berthelsen, A. K., Korreman, S. S., Kristensen, C. A. & Specht, L., Aug 2012, In: Strahlentherapie und Onkologie. 188, 8, p. 671-676 6 p.

Respiration-correlated image guidance is the most important radiotherapy motion management strategy for most lung cancer patients
Korreman, S., Persson, G., Nygaard, D., Brink, C. & Juhler-Nøttrup, T., 15 Jul 2012, In: International Journal of Radiation Oncology Biology Physics. 83, 4, p. 1338-1343 6 p.

Isotoxic dose escalation in the treatment of lung cancer by means of heterogeneous dose distributions in the presence of respiratory motion
Baker, M., Nielsen, M., Hansen, O., Jahn, J. W., Korreman, S. & Brink, C., 1 Nov 2011, In: International Journal of Radiation Oncology Biology Physics. 81, 3, p. 849-855 7 p.

Artifacts in conventional computed tomography (CT) and free breathing four-dimensional CT induce uncertainty in gross tumor volume determination
Fredberg Persson, G., Nygaard, D. E., Af Rosenschöld, P. M., Richter Vogelius, I., Josipovic, M., Specht, L. & Korreman, S. S., 1 Aug 2011, In: International Journal of Radiation Oncology Biology Physics. 80, 5, p. 1573-1580 8 p.

Estimated radiation pneumonitis risk after photon versus proton therapy alone or combined with chemotherapy for lung cancer
Vogelius, I. R., Westerly, D. C., Aznar, M. C., Cannon, G. M., Korreman, S. S., MacKie, T. R., Mehta, M. P. & Bentzen, S. M., Aug 2011, In: Acta Oncologica. 50, 6, p. 772-776 5 p.

Evaluation of dose to cardiac structures during breast irradiation
Aznar, M., Korreman, S. S., Pedersen, A. N., Persson, G. F., Josipovic, M. & Specht, L., Aug 2011, In: British Journal of Radiology. 84, 1004, p. 743-746 4 p.

Comparison of the accuracy and precision of prostate localization with 2D-2D and 3D images
Logadóttir, Á., Korreman, S. & Petersen, P. M., Feb 2011, In: Radiotherapy and Oncology. 98, 2, p. 175-180 6 p.

Rotational radiotherapy for prostate cancer in clinical practice

Aznar, M. C., Petersen, P. M., Logadottir, A., Lindberg, H., Korreman, S. S., Kjær-Kristoffersen, F. & Engelholm, S. A., Dec 2010, In: *Radiotherapy and Oncology*. 97, 3, p. 480-484 5 p.

A treatment planning study of the potential of geometrical tracking for intensity modulated proton therapy of lung cancer
Rosenschöld, P. M. A., Aznar, M. C., Nygaard, D. E., Persson, G. F., Korreman, S. S., Engelholm, S. A. & Nyström, H., Oct 2010, In: *Acta Oncologica*. 49, 7, p. 1141-1148 8 p.

Feasibility of dose painting using volumetric modulated arc optimization and delivery

Korreman, S. S., Ulrich, S., Bowen, S., Deveau, M., Bentzen, S. M. & Jeraj, R., Oct 2010, In: *Acta Oncologica*. 49, 7, p. 964-971 8 p.

Methodologies for localizing loco-regional hypopharyngeal carcinoma recurrences in relation to FDG-PET positive and clinical radiation therapy target volumes

Due, A. K., Korreman, S., Bentzen, S. M., Tomé, W., Bender, E., Aznar, M., Vogelius, I., Berthelsen, A. K., Kristensen, C. A. & Specht, L., Oct 2010, In: *Acta Oncologica*. 49, 7, p. 984-990 7 p.

RapidArc treatment verification in 3D using polymer gel dosimetry and Monte Carlo simulation

Ceberg, S., Gagne, I., Gustafsson, H., Scherman, J. B., Korreman, S. S., Kjær-Kristoffersen, F., Hiltz, M. & Bäck, S. Å. J., 7 Sept 2010, In: *Physics in Medicine and Biology*. 55, 17, p. 4885-4898 14 p.

Deviations in delineated GTV caused by artefacts in 4DCT

Persson, G. F., Nygaard, D. E., Brink, C., Jahn, J. W., Munck af Rosenschöld, P., Specht, L. & Korreman, S. S., Jul 2010, In: *Radiotherapy and Oncology*. 96, 1, p. 61-66 6 p.

Automated analysis of images acquired with electronic portal imaging device during delivery of quality assurance plans for inversely optimized arc therapy

Fredh, A., Korreman, S. & Rosenschöld, P. M. A., Feb 2010, In: *Radiotherapy and Oncology*. 94, 2, p. 195-198 4 p.

The European Society of Therapeutic Radiology and Oncology-European Institute of Radiotherapy (ESTRO-EIR) report on 3D CT-based in-room image guidance systems: A practical and technical review and guide

Korreman, S., Rasch, C., McNair, H., Verellen, D., Oelfke, U., Maingon, P., Mijnheer, B. & Khoo, V., Feb 2010, In: *Radiotherapy and Oncology*. 94, 2, p. 129-144 16 p.

Intensity-modulated volumetric arc radiotherapy

Korreman, S. S., 1 Jan 2010, *Quality and Safety in Radiotherapy*. CRC Press, p. 343-348 6 p.

Tumor-tracking radiotherapy of moving targets; verification using 3D polymer gel, 2D ion-chamber array and biplanar diode array

Ceberg, S., Falk, M., Af Rosenschöld, P. M., Cattell, H., Gustafsson, H., Keall, P., Korreman, S. S., Medin, J., Nordström, F., Persson, G., Sawant, A., Svatos, M., Zimmerman, J. & Bäck, S. Å. J., 2010, In: *Journal of Physics: Conference Series*. 250, p. 235-239 5 p., 012051.

The effect of different lung densities on the accuracy of various radiotherapy dose calculation methods: Implications for tumour coverage

Aarup, L. R., Nahum, A. E., Zacharitou, C., Juhler-Nøttrup, T., Knöös, T., Nyström, H., Specht, L., Wieslander, E. & Korreman, S. S., Jun 2009, In: *Radiotherapy and Oncology*. 91, 3, p. 405-414 10 p.

DMLC motion tracking of moving targets for intensity modulated arc therapy treatment - A feasibility study

Zimmerman, J., Korreman, S., Persson, G., Cattell, H., Svatos, M., Sawant, A., Venkat, R., Carlson, D. & Keall, P., Feb 2009, In: *Acta Oncologica*. 48, 2, p. 245-250 6 p.

Dosimetric verification of RapidArc treatment delivery

Korreman, S., Medin, J. & Kjær-Kristoffersen, F., Feb 2009, In: *Acta Oncologica*. 48, 2, p. 185-191 7 p.

RapidArc volumetric modulated therapy planning for prostate cancer patients

Kjær-Kristoffersen, F., Ohlhues, L., Medin, J. & Korreman, S., Feb 2009, In: *Acta Oncologica*. 48, 2, p. 227-232 6 p.

RapidArc[™] treatment verification using polymer gel dosimetry

Ceberg, S., Gustavsson, H., Korreman, S., Medin, J., Kjær-Kristoffersen, F. & Bäck, S. J., 2009, In: *Journal of Physics: Conference Series*. 164, 012052.

The GLAaS algorithm for portal dosimetry and quality assurance of RapidArc, an intensity modulated rotational therapy
Nicolini, G., Vanetti, E., Clivio, A., Fogliata, A., Korreman, S., Bocanek, J. & Cozzi, L., 9 Sept 2008, In: *Radiation Oncology*. 3, 1, 24.

SU-GG-T-545: Dosimetric Verification of RapidArc Treatment Delivery Using the Delta4 Phantom

Korreman, S., Medin, J., Wiberg, I., Bocanek, J., Archambault, Y. & Cozzi, L., 1 Jan 2008, In: *Medical Physics*. 35, 6, 1 p.

Respiratory gated beam delivery cannot facilitate margin reduction, unless combined with respiratory correlated image guidance

Korreman, S. S., Juhler-Nøttrup, T. & Boyer, A. L., Jan 2008, In: *Radiotherapy & Oncology*. 86, 1, p. 61-68 8 p.

Can audio coached 4D CT emulate free breathing during the treatment course?

Persson, G. F., Nygaard, D. E., Olsen, M., Juhler-Nøttrup, T., Pedersen, A. N., Specht, L. & Korreman, S. S., 2008, In: *Acta Oncologica*. 47, 7, p. 1397-1405 9 p.

Interfractional changes in tumour volume and position during entire radiotherapy courses for lung cancer with respiratory gating and image guidance

Juhler-Nøttrup, T., Korreman, S. S., Pedersen, A. N., Persson, G. F., Aarup, L. R., Nyström, H., Olsen, M., Tarnavski, N. & Specht, L., 2008, In: *Acta Oncologica*. 47, 7, p. 1406-1413 8 p.

The role of image guidance in respiratory gated radiotherapy

Korreman, S. S., Juhler-Nøttrup, T., Fredberg Persson, G., Navrsted Pedersen, A., Enmark, M., Nyström, H. & Specht, L., 2008, In: *Acta Oncologica*. 47, 7, p. 1390-1396 7 p.

Intra- and interfraction breathing variations during curative radiotherapy for lung cancer

Juhler Nøttrup, T., Korreman, S. S., Pedersen, A. N., Aarup, L. R., Nyström, H., Olsen, M. & Specht, L., Jul 2007, In: *Radiotherapy and Oncology*. 84, 1, p. 40-48 9 p.

IGRT of prostate cancer; is the margin reduction gained from daily IG time-dependent?

Enmark, M., Korreman, S. & Nyström, H., 1 Sept 2006, In: *Acta Oncologica*. 45, 7, p. 907-914 8 p.

Reduction of cardiac and pulmonary complication probabilities after breathing adapted radiotherapy for breast cancer

Korreman, S. S., Pedersen, A. N., Aarup, L. R., Nøttrup, T. J., Specht, L. & Nyström, H., 1 Aug 2006, In: *International Journal of Radiation Oncology Biology Physics*. 65, 5, p. 1375-1380 6 p.

Cardiac and pulmonary complication probabilities for breast cancer patients after routine end-inspiration gated radiotherapy

Korreman, S. S., Pedersen, A. N., Josipović, M., Aarup, L. R., Juhler-Nøttrup, T., Specht, L. & Nyström, H., Aug 2006, In: *Radiotherapy and Oncology*. 80, 2, p. 257-262 6 p.

Comparison of respiratory surrogates for gated lung radiotherapy without internal fiducials

Korreman, S., Mostafavi, H., Le, Q.-T. & Boyer, A., 2006, In: *Acta Oncologica*. 45, 7, p. 935-42 8 p.

Breathing adapted radiotherapy for breast cancer: Comparison of free breathing gating with the breath-hold technique

Korreman, S. S., Pedersen, A. N., Nøttrup, T. J., Specht, L. & Nyström, H., Sept 2005, In: *Radiotherapy and Oncology*. 76, 3, p. 311-318 8 p.

Breathing adapted radiotherapy of breast cancer: Reduction of cardiac and pulmonary doses using voluntary inspiration breath-hold

Pedersen, A. N., Korreman, S., Nyström, H. & Specht, L., Jul 2004, In: Radiotherapy and Oncology. 72, 1, p. 53-60 8 p.

Modification of anomalous swelling in multilamellar vesicles induced by alkali halide salts

Korreman, S. S. & Posselt, D., 2001, In: European Biophysics Journal. 30, 2, p. 121-128 8 p.

Chain length dependence of anomalous swelling in multilamellar lipid vesicles

Korreman, S. S. & Posselt, D., Jan 2000, In: European Physical Journal E. 1, 1, p. 87-91 5 p.