Full name: Caroline Elisabeth Olsson

DOB: December 9, 1970

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1. Higher education degree(s)

2005, M.Sc. Mathematics

2005, M.Sc. Computer Science

1994, Registered Nurse, Oncology Nursing

2. Doctoral degree

2012-04-27, Biosciences/Radiation Oncology, *Radiation Oncology Data and Modelling Side Effects after Radiation Therapy*, Graham Kemp, Department of Computer Science and Engineering, Chalmers University of Technology, Gothenburg, Sweden

3. Professor grade

2025-04-01, Adjunct professor, Sahlgrenska Academy, University of Gothenburg, Sweden; subject: Medical Radiation Sciences

2017-04-26, Associate professor, Sahlgrenska Academy, University of Gothenburg, Sweden; subject: Radiation Physics

4. Current position, period of appointment and percentage of employment time dedicated to research

Research leader[i] with responsibility for the clinical research school at the Sahlgrenska Academy, Gothenburg university, which is partly supported by Regional Cancer Center (RCC) West, the Western Sweden Healthcare Region in Gothenburg, Sweden, 2023-06-01 – present (100%)*

[i]from 2025-04-01 is 20% dedicated to the University of Gothenburg and work as adjunct professor

5. Previous positions and periods of appointment

2017-2023: Responsible for research and development at Regional Cancer Center (RCC) West, the Western Sweden Healthcare Region in Gothenburg, Sweden (5 years)

2015-2017: Scholarship from the Swedish Association for Medical Research (SSMF) supporting the achievement of Associate Professor Degree, combined with 20% employment at Regional Cancer Center (RCC) West, the Western Sweden Healthcare Region in Gothenburg, Sweden (2 years)

2012-2015, Postdoc at the Division of Clinical Cancer Epidemiology, Department of Oncology, Institute of Clinical Sciences at the Sahlgrenska Academy, University of Gothenburg, Sweden (3 years)

2008–2012, Ph.D. student at the Chalmers Graduate School of Bioscience, Department of Computer Science and Engineering, Chalmers University of Technology and the Department of Radiation Physics, Clinical sciences at the Sahlgrenska Academy (4 years)

2006–2008, Project assistant at the Department of Radiation Physics, Clinical Sciences, Sahlgrenska Academy (1.5 years)

1994–2006 (intermittent employment), Nurse at the Department of Physics and Biomedical Engineering, Sahlgrenska University Hospital (equivalent to 100% for 3.5 years)

2005, Project assistant at the Department of Mathematics, Chalmers University of Technology (1 month)

1995–2005 (intermittent employment), Nurse at the Department of Radiation Therapy, Sahlgrenska University Hospital (equivalent to 100% for 2.5 years)

1994, Nurse at the Department of Radiation Therapy at Regionsjukhuset, Örebro, Sweden (1.5 months)

1990–1993 (intermittent employment) Nurse Assistant at a hospital ward for the elderly, Rosenlunds Vårdcentrum, Jönköping, Sweden (equivalent to 100% for 2 years)

1990, Girl Scout leader at Camp Henry Kaufmann, Bolivar, Pennsylvania, USA (2 months)

1989-1990, Clerk at the Capita Financial Group in Perth, W.A., Australia (4 months)

6. Deductible time

Parental leave, March 2000 – August 2001, 100%, (1.5 years)

7. Other information

a. Teaching

2023-ongoing: Subject: Clinical research for Ph.D. students in healthcare (research process, clinical epidemiology, and medical statistics), Lecturer at the Clinical research school at the Sahlgrenska Academy, Gothenburg university (four 5-week courses per year; around 160 x 40 minutes per year)

2023: Subject: Information Network for Cancer (INCA) and quality register research in cancer, Course organizer and lecturer at Regional Cancer Center West (4 days; 2 x 40 minutes)

2020; 2013, Subject: Medical Statistics/Mathematics, Lecturer in the doctoral school “Clinical research to clinical epidemiological methods” at the Sahlgrenska Academy (14 x 40 minutes)

2009–2010, 2013, Subject: Radiobiology, Lecturer in the master’s course “Basic radiobiology” at the Department of Radiation Physics, University of Gothenburg (23 x 40 minutes)

2008–2009, Subject: Mathematics, Guest lecturer in the master’s course “Applied optimization” at the Department of Mathematical Sciences, Chalmers University of Technology and University of Gothenburg (4 x 40 minutes)

b. Supervision of students

Graduate: 2022-present, M.Sc. Business Analytics Consulting: Specialization – Healthcare data Mruga Gurjar, Medical Radiation Sciences, Sahlgrenska Academy at the University of Gothenburg (Preliminary Thesis title: *Evidence-based decision support for the modern radiation therapy process – models, technical solutions, and risk analysis to guide implementation of efficient and safe working strategies*) [Main Supervisor]

2018-2022, L.Ph. Technology Management and Economics, Paul Holmström Medical Radiation Sciences, Sahlgrenska Academy at the University of Gothenburg (Ph.D. degree awarded 2022-12-19; Thesis title: *Combining Action research and System Dynamics to facilitate change and improvement processes in healthcare*) [Main Supervisor]

2017-2021, Medical Physicist Jesper Lindberg, Department of Radiation Physics, Sahlgrenska Academy at the University of Gothenburg (Ph.D. degree in awarded 2021-11-19; Thesis title: *System Dynamics Modelling of the Radiation Therapy Process*) [Main Supervisor]

2015-2019, Medical Doctor Johanna Hedström, Department of Otorhinolaryngology, Head and Neck Surgery, Sahlgrenska Academy at the University of Gothenburg (Ph.D. degree in awarded 2019-09-20; Thesis title: "*Radiation-induced Dysphagia in Head and Neck Cancer – Risk Structures and Methodological Aspects*") [Co-Supervisor]

2013-2015, Medical Doctor Nina Pauli, Department of Otorhinolaryngology, Head and Neck Surgery, Sahlgrenska Academy at the University of Gothenburg (Ph.D. degree in awarded 2015-01-23; Thesis title: "*Treating Radiation-Induced Trismus in Head and Neck Cancer Exercise Intervention and Risk Structures*") [Co-Supervisor]

2012–2013, Medical Physicist Niclas Pettersson, Department of Radiation Physics, Sahlgrenska Academy at the University of Gothenburg (Ph.D. degree in Radiation Physics awarded 2013-03-15; Thesis title: "*Modelling late Toxicity in Hypofractionated Radiation Therapy – Developments of Methods and Applications to Clinical Data*") [Co-Supervisor]

Undergraduate: 2021, M.D. student Stefan Jamtlien, Department of Radiotherapy, Karolinska University Hosptial (Master thesis in Medicine passed 2022-02-18; Thesis title: "*Clinical significance of bladder volume variation in prostate cancer patients undergoing salvage radiation therapy*") [Co-supervisor]

2019, M.Sc. student Thao Dang, Department of Radiation Physics, Sahlgrenska Academy at the University of Gothenburg (Master thesis in Medical Physics passed 2020-01-17; Thesis title: "*Standardized organ at risk volume in external beam radiation therapy for prostate cancer and its relationship to volumes defined by clinical practise*") [Main Supervisor]

2014, M.Sc. student Didem Köroglu, Department of Radiation Physics, Sahlgrenska Academy at the University of Gothenburg (Master thesis in Medical Physics passed 2015-01-16; Thesis title: "*Radiation-induced Trismus Evaluation of Potentially Critical Subvolumes within the Masseter Muscle*") [Main Supervisor]

2013, M.D. student Marie Johansson, Department of Oncology, Sahlgrenska Academy at the University of Gothenburg (Master thesis in Medicine passed 2013-12-04; Thesis title: "*Radiation-induced sexually related symptoms and well-being in prostate cancer survivors*") [Main Supervisor]

2013, M.D. student Ingrid Mattsson, Department of Oncology, Sahlgrenska Academy at the University of Gothenburg (Master thesis in Medicine passed 2013-12-04; Thesis title: "*Late Urinary tract side effects and Bother following Radiation Therapy for Prostate Cancer*") [Main Supervisor]

c. Grading committee assignments

2024, Half-time seminar, Ph.D. student Mats Perman, Department of Oncology, Sahlgrenska Academy at the University of Gothenburg (Course passed 2024-06-14; Report title: "*Long-term cardiovascular effects of radiotherapy"*).

2023, Half-time seminar, Ph.D. student Peter Andersson, Department of Medical Radiation Sciences, Sahlgrenska Academy at the University of Gothenburg (Course passed 2023-04-04; Report title: "*In vivo dosimetry during intensity modulated radiotherapy*").

2020, Half-time seminar, Ph.D. student Jonathan Arvidsson, Department of Radiation Physics, Sahlgrenska Academy at the University of Gothenburg (Course passed 2020-09-16; Report title: "*Improvements in perfusion MRI: Dynamic modelling of dynamic susceptibility contrast and blood oxygen level dependant imaging*").

2020, Half-time seminar, Ph.D. student Emilia Palmér, Department of Radiation Physics, Sahlgrenska Academy at the University of Gothenburg (Course passed 2020-03-13; Report title: "*MRI-only workflow in photon radiation therapy for external treatment of head and neck cancer*").

2019, Half-time seminar, Ph.D. student Jenny Nyqvist, Department of Surgery, Skaraborgs Hospital and Sahlgrenska Academy at the University of Gothenburg (Course passed 2019-02-22; Report title: "*Förekomst av primära, multipla maligniteter hos bröstcancerpatienter; en retrospektiv, statistisk, epidemiologisk och immunhistokemisk utvärdering under 11 år (2007-2017)*").

2016, Half-time seminar, Ph.D. student Viktor Sandblom, Department of Radiation Physics, Sahlgrenska Academy at the University of Gothenburg (Course passed 2016-12-20; Report title: *"Optimisation of 177Lu-octreotate therapy"*).

2016, Half-time seminar, Ph.D. student Oscar Gustafsson, Department of Radiation Physics, Sahlgrenska Academy at the University of Gothenburg (Course passed 2016-09-30; Report title: *"Development of MR methods for measurements of tissue microstructure and perfusion Applications in brain and liver"*).

2014, Half-time seminar, Ph.D. student Emma Hedin, Department of Radiation Physics, Sahlgrenska Academy at the University of Gothenburg (Course passed 2014-10-21; Report title: *"Estimation of lung dose and risk for radiation-induced complications after breast and lung cancer treatments"*).

d. Awards

2011, "Challenges and Visions Award" sponsored by the Computing Community Consortium (CCC) at the International Workshop on Managing Interoperability and compleXity in Health Systems (MIX-HS'11)/20th ACM International Conference on Information and Knowledge Management.

e. Languages

Swedish, English, basic knowledge of German

f. Grants

Funding source	Ref. No.	Project title	Years	SEK/year
Jubileumsklinikens Cancer Research Foundation	2024:568	The PPMC Lung cancer project in Western Sweden	2025-2026	300000
ALF Western Sweden Healthcare Region	ALFGBG-1015498	Real-world and real-time data to answer clinical and work-related research questions in radiation therapy: Improved outcomes for patients and streamlined workflows for staff	2025	200000
Jubileumsklinikens Cancer Research Foundation	2023:505	Real-world and real-time data to answer clinical and work-related research questions in radiation therapy: Improved outcomes for patients and streamlined workflows for staff	2024-2025	400000
Lions cancerfond väst	2022:14	A large-scale Western Sweden study identifying diagnostic, treatment predictive, and prognostic biomarkers to tailor lung cancer treatments	2023-2024	100000
Jubileumsklinikens Cancer Research Foundation	2021:347	STRONG and SMART radiation therapy: Reduced toxicity and streamlined workflows through standardization and customized support	2022-2023	450000
ALF Western Sweden Healthcare Region	ALFGBG-965800	STRONG and SMART radiation therapy: Reduced toxicity and streamlined workflows through standardization and customized decision support	2022-2024	400000
Jubileumsklinikens Cancer Research Foundation	2019:253	Standardizing radiation therapy data to increase confidence in tolerance doses for radiation-induced toxicities	2020-2022	200000
Swedish Prostate Cancer Association	N/A	Introducing National Swedish standards in radiation therapy: Using data from the national prostate cancer register to evaluate evidence-based contouring guidelines for pelvic organs at risk	2020-2021	200000
Jubileumsklinikens Cancer Research Foundation	2018:202	Standardizing radiation therapy data to increase confidence in tolerance doses for radiation-induced toxicities	2019-2021	100000
Kamprad Family Foundation for Entrepreneurship, Research & Charity	20190083	An IT tool based on system dynamics modelling to improve operations planning and organization of radiation therapy	2019-2021	1000000
Vinnova/SWElife/SWEPER	N/A	Standardizing contouring in radiation therapy: From text and images to SNOMED CT and machine-readable data	2018	210000
Jubileumsklinikens Cancer Research Foundation	2017:124	Standardizing radiation therapy data to increase condfidence in tolerance doses for radiation-induced toxicities	2018-2020	83000
FoU Western Sweden Healthcare Region	VGFOUREG-751221	Relationships between MRI-signals, radiation dose to various organs-at-risk, and trismus after radiotherapy for head and neck cancer	2018-2019	115000
Swedish Research Council*	2017-01753	System dynamics modelling of the radiation therapy process: Field studies, simulations, and practical solutions for Swedish health care	2018-2020	1150000
ALF Western Sweden Healthcare Region	ALFGBG-720111	Modelling the radiation therapy process and standardizing radiation therapy data to increase confidence in tolerance doses for radiation-induced toxicities	2018-2021	400000
FoU Western Sweden Healthcare Region	VGFOUREG-654751	Relationships between MRI-signals, radiation dose to various organs-at-risk, and trismus after radiotherapy for head and neck cancer	2017-2018	109000
Swedish Association for Medical Research (SSMF), 2-year scholarship in support of support of Associate Professor Degree		Advanced modelling of normal tissue responses in radiotherapy	2015-2017	400000
Kamprad Family Foundation for Entrepreneurship, Research & Charity	20170075	Advanced modelling of normal tissue responses in radiotherapy	2015-2017	450000
Jubileumsklinikens Cancer Research Foundation	2014:36	Predictive modelling of radiation-induced trismus and dysphagia in head and neck cancer	2014	300000
Jubileumsklinikens Cancer Research Foundation	2013:40	Advanced modelling of late toxicity in prostate cancer radiotherapy	2013	250000
Jubileumsklinikens Cancer Research Foundation	2013:20	Travelling grant to visit research group at Memorial Sloan Kettering Cancer Center, New York, 21 days	2013	47730
Tore Nilssons stiftelse	N/A	Travelling grant to visit international host/collaborating research department in New York, USA	2013	14000
Syskonen Svenssons fond för Medicinsk forskning	N/A	Advanced modelling of late toxicity in prostate cancer radiotherapy	2013	50000
Jubileumsklinikens Cancer Research Foundation	2009:05	Radiobiology from two international researchers' perspectives'	2009	39680
Assar Gabrielsson Foundation for clinical cancer research	FB 14-29, FB 13-91, FB 12-38, FB 11-46, FB 10-55, FB 09-51, FB 08-68	Various titles adressing predictive modelling of normal tissue response	2008-2014	35000-72000

**Co-applicant of T. Eijkirk-Eriksson (Head of Regional Cancer Center (RCC) West, Western Sweden Healthcare region, Göteborg, Sweden*

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h-index:16; i10-index: 25; number of citations: 3051 (Google Scholar access date: May 15th, 2025)

https://pubmed.ncbi.nlm.nih.gov/?term=%22Olsson+C%22or+%22Olsson+CE%22+and+%28Gothenburg%5Baffiliation%5D%29+NOT+Braatz+NOT+thoracic+NOT+vegetable+NOT+fruit+NOT+cardiac+NOT+ahlberg+NOT+fish+NOT+climate+NOT+girdle+NOT+gut+NOT+lung+NOT+tyrosine+NOT+Jutfelt+NOT+Brijs+NOT+%22Olsson+CB%22+NOT+Shungin+NOT+Gudbjartsson

h. Official webpage

https://www.gu.se/om-universitetet/hitta-person/carolineolsson

i. Miscellaneous

2021-present: Project manager for the Partnership for Precision Cancer Medicine (PPCM) initiative in Gothenburg by the Sjöberg Foundation

2023-2025: Member of NAG-RT, the national working group in support of radiation therapy (RT) appointed by the six Regional Cancer Centers in Sweden

2018-2023: Member of the steering committee for Regional Cancer Center (RCC) West, the Western Sweden Healthcare Region in Gothenburg, Sweden

2017-2021: Research coordinator of the Partnership for Precision Cancer Medicine (PPCM) initiative in Gothenburg by the Sjöberg Foundation

2015- present: Advisor to the Swedish quality register for radiation therapy data (Svenska Kvalitetsregistret för RadioTerapi [SKvaRT])

2015- 2016: Chair of NASKC, the national working group in support of clinical cancer research appointed by the six Regional Cancer Centers in Sweden

2012–2015: Member of the steering committee for the SSM-sponsored project "A national database for radiation therapy dose data"

Referee assignments for the International Journal of Radiation Oncology Biology Physics, (IJROBP), Radiotherapy and Oncology (RO), Acta Oncologica, Acta Oto-Laryngologica (AOL), Clinical Oral Investigations (CLOI), and Practical Radiation Oncology (PRO).

8. Peer-reviewed papers *equal contribution between authors

[47] Olsson C, Krogh SL, Karlsson M, Eriksen JG, Björk-Eriksson T, Grau C, Norman D, Offersen BV, Nyholm T, Overgaard J, Zackrisson B, Hansen CR. *Danish and Swedish national data collections for cancer – solutions for radiotherapy.* Clinical Oncology. 2025; 37:103657.

[46] Gurjar M, Lindberg J, Björk-Eriksson T, and **Olsson C**. *A data-driven approach to solve the RT scheduling problem.* Tech Innov Patient Support Radiat Oncol. 2024; 32: 100282

[45] Pettersson N, Andersson E, Pauli N, Tuomi L, Finizia C and **Olsson C**. *Decreased rates of radiation-induced trismus and lowered mastication structure doses in patients treated for head and neck cancer during the last two decades.* Clin Oncol (R Coll Radiol). 2024; 36(19): e388.

[44] Gurjar M, Lindberg J, Björk-Eriksson T, and **Olsson C**. *Automated data extraction tool (DET) for external applications in radiotherapy.* Tech Innov Patient Support Radiat Oncol. 2023; 25: 100194

[43] **Olsson C**, Suresh R, Niemelä J, Akram S, and Valdman A. *Autosegmentation based on different-sized training datasets of consistently-curated volumes and impact on rectal contours in prostate cancer radiation.* PhiRO 2022; 22: 67-72.

[42] Abel E, Silander E, Nordström F, **Olsson C**, Brodin P, Nyman J, Björk-Eriksson T, and Hammerlid E. *Fatigue in head and neck cancer patients treated with radiotherapy: a prospective study of patient-reported outcomes and their association with radiation dose to the cerebellum.* Advances in Radiation Oncology 2022; 7: 100960.

[41 a+b] Holmström P, Björk-Eriksson T, Lindberg J, Bååthe F*, Davidsen P*, and **Olsson C***. [a] *Insights Gained From a Re-Analysis of Five Improvement Cases in Healthcare Integrating System Dynamics into Action Research* and [b] Commentary: *Helping healthcare to help itself – A response to recent commentaries*. Int J Health Policy Manag 2022; 11(11): 2707-2718 and 2023; 12(1): 1-3.

[40] Lindberg J, Gurjar M, Holmström P, Hallberg S, Björk-Eriksson T, and **Olsson C**. *Resource planning principles for the radiotherapy process using simulations applied to a longer vacation period use case.* Tech Innov Patient Support Radiat Oncol. 2021; 20:17-22.

[39] Lindberg J, Björk-Eriksson T, and **Olsson C E**. *Linear accelerator utilization: Concept and tool to aid the scheduling of patients for radiotherapy*. Tech Innov Patient Support Radiat Oncol. 2021; 20: 10-16.

[38] Johansson G, **Olsson C,** Smith F, Edegran M, and Björk-Eriksson T. *AI-aided detection of malignant lesions in mammography screening – evaluation of a program in clinical practice*. BJR Open 2021; 2:20200063.

[37] Lindberg J, Holmström P, Hallberg S, Björk-Eriksson T, and **Olsson C**. *An analytical approach to aggregate patient inflows to a simulation model over the radiotherapy process.* BMC Health Services Research. 2021; 21:207.

[36] Hedström J, Johansson M, **Olsson C**, Tuomi L, and Finizia C. *Quality of care in dysphagia patients:adaption and validation of the Swedish SWAL_CARE questionnaire*. Health Qual Life Outcomes 2020; 18:316.

[35] Lindberg J, Holmström P, Hallberg S, Björk-Eriksson T, and **Olsson C**. *A national perspective about the current work situation at modern radiotherapy departments.* Clinical and Translational Radiation Oncology, Aug. 11, 2020. 25:127-134

[34] Holmström P, Hallberg S, Björk-Eriksson T, Lindberg J, Bååthe F*, Davidsen P*, and **Olsson C***. *Insights gained from a systematic reanalysis of a successful model-facilitated change process in healthcare.* Syst Res Behav Sci 2020; sres.2724: 1-11.

[33] **Olsson C,** Lindberg J, Holmström P, Hallberg S, Björk-Eriksson T, and Johansson K-A. *Radiation therapy in Sweden: Past, present, and future perspectives.* IJROBP 2020; 107(1): 6-11.

[32] **Olsson C**, Nyholm T, Wieslander E, Onjukka E, Gunnlaugsson A, Reizenstein J, Johnsson S, Kristensen I, Skönevik J, Karlsson M, Isacsson U, Flejmer A, Abel E, Nordström F, Nyström L, Bergfeldt K, Zackrisson B, and Valdman A. *Initial experience with introducing national guidelines for CT- and MRI-based delineation of organs at risk in radiotherapy.* PhiRO 2019:11:88-91.

[31] Hedström J, Tuomi L, Finizia C, **Olsson CE**. *Identifying organs at risk for radiation-induced late dysphagia in head and neck cancer patients.* ctRO 2019:19:87-95.

[30] Waldenström A-C, Bergmark K , Michanek A , Hashimid F, Rossi Norrlund R , **Olsson CE**, Gjertsson P , Leonhardt H. *A comparison of two imaging modalities for detecting lymphatic nodal spread in radiochemotherapy of locally advanced cervical cancer.* phiRO 2018:8:33-37.

[29] **Olsson CE**, Jackson A, Deasy JO, and Thor M. *A systematic post-QUANTEC review of tolerance doses for late toxicity after prostate cancer radiotherapy.* Int J Radiat Oncol Biol Phys 2018; 102(5):1514.

[28] Beasley W, Thor M, McWilliam A, Green A, Mackay R, **Olsson CE**, Pettersson N, Finizia C, Estilo C, Riaz N, Lee NY, Deasy JO, and van Herk M., *Image-based data mining to probe dosimetric correlates of radiation-induced trismus.* Int J Radiat Oncol Biol Phys. 2018; 102(4):1330-1338.

[27] Hedström J, Tuomi L, Finizia C, and **Olsson CE**. *Correlations between patient-reported dysphagia screening and penetration-aspiration scores in Head and Neck Cancer patients' post-oncological treatment.* Dysphagia 2018; 33(2):206-2015.

[26] Thor M*, **Olsson CE***, Oh JH, Hedström J, Pauli N, Johansson M, Deasy JO, and Finizia C. *Temporal patterns of patient-reported trismus and associated mouth-opening distances in radiotherapy for head and neck cancer: A prospective cohort study.* Clinical Otolaryngology 2018; 43(1):22-30.

[25] Oh JH, Thor M, **Olsson C**, Skokic V, Jörnsten R, Alsadius D, Pettersson N, Steineck G, and Deasy J. *A factor analysis approach for clustering patient-reported outcomes.* Methods Inf Med, 2016; 55(5):431-439.

[24] Nyholm T*, **Olsson C***, Agrup M, Björk P, Björk-Eriksson T, Gagliardi G, Grinaker H, Gunnlaugsson A, Gustafsson A, Gustafsson M, Johansson B, Johnsson S, Karlsson M, Kristensen I, Nilsson P, Nyström L, Onjukka E, Reizenstein J, Skönevik J, Söderström K, Valdman A, Zackrisson B, Montelius A. *A national approach for automated collection of standardized and population-based radiation therapy data in Sweden*. Radiother Oncol, 2016; 119(2):344-50.

[23] Lind H, Alevronta E, Steineck G, Waldenström A-C, Nyberg T, **Olsson C**, Wilderäng U, Dunberger G, al-Abany M, and Åvall-Lundqvist E. *Defecation into clothing without forewarning and mean radiation dose to bowel and anal-sphincter among gynecological cancer survivors*. Accepted for publication in Acta Oncol, 2016; 55(11): 1285-1293.

[22] Olsson B, Lautner R, Andreasson U, Öhrfelt A, Portelus E, Bjerke M, Höltää M, Rosén C, **Olsson C**, Strobel G, Wu E, Dakin K, Petzold M, Blennow K, and Zetterberg H. *CSF and blood biomarkers for Alzheimer's disease: a systematic review and meta-analysis*. Lancet Neurology, 2016; 15(7):673-84.

[21] Alevronta E, Åvall-Lundqvist E,, al-Abany M, Nyberg T, Lind H, Waldenström A-C, **Olsson C**, Dunberger G, Bergmark K, Steineck G, and Lind B.K. *Time-dependent dose-response relation for absence of vaginal elasticity after gynecological radiation therapy*. Radiother Oncol, 2016; 120(3): 537-541.

[20] **Olsson CE***, Thor M*, Oh JH, Petersen SE, Alsadius D, Bentzen L, Pettersson N, Muren L, Høyer M, Steineck G, and Deasy JO. *Urinary bladder dose-response relationships for patient-reported genitourinary morbidity domains following prostate cancer radiotherapy*. Radiother Oncol, 2016; 119(1):117-22.

[19] Pauli N, **Olsson CE**, Pettersson N, Johansson M, Haugen H, Wilderäng U, Steineck G, and Finizia C. *Risk structures for radiation-induced trismus in head and neck cancer.* Acta Oncol, 2016; 55(6): 788-92.

[18 a+b] **Olsson CE***, Thor M*, Oh JH, Alsadius D, Pettersson N, Muren L, Deasy JO., and Steineck G. [a] *Radiation dose to the penile structures and patient-reported sexual dysfunction in long-term prostate cancer survivors* [b] *Response and Rebuttal to Editorial comment.* J Sex Med, 2015:12(12):2388-97 and 2015:12(12):2400

[17] **Olsson CE**, Alsadius D, Pettersson N, Tucker SL, Wilderäng U, Johansson K-A, and Steineck G. *Patient-reported sexual toxicity after radiation therapy in long-term prostate cancer survivors.* Br J Ca 2015:113:802-808.

[16] **Olsson CE***, Thor M*, Oh JH, Petersen SE, Alsadius D, Bentzen L, Pettersson N, Muren L, Waldenström A-C, Høyer M, Steineck G, and Deasy JO., *Relationships between dose to the gasto-intestinal tract and patient-reported symptom domains after radiotherapy for localized prostate cancer*. Acta Oncol. 2015 Oct;54(9):1326-34.

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[14] **Olsson C***, Thor M*, Liu M, Moissenko V, Petersen SE, Høyer M, Apte A, and Deasy JO. *Influence of image slice thickness on rectal dose-response relationships following radiotherapy of prostate cancer.* Phys Med Biol. 2014 Jul 21;59(14):3749-59.

[13] Pettersson N, Johansson K-A, Alsadius D, Tucker S, Steineck G, and **Olsson C**,. *A method to estimate composite doses for organs at risk in prostate cancer treated with EBRT in combination with HDR BT.* Acta Oncol. 2014 Jun;53(6):815-21.

[12] Alsadius D, **Olsson C**, Wilderäng U, and Steineck G. *Partnership status affects the association between gastrointestinal symptoms and quality of life after radiation therapy for prostate cancer*. Acta Oncol. 2014 Mar;53(3):378-84.

[11] Alsadius D, **Olsson C**, Pettersson N, Tucker S Wilderäng U, and Steineck G. *Perception of body odor - an overlooked consequence of long-term gastrointestinal and urinary symptoms after radiation therapy for prostate cancer.* J Cancer Surviv. 2013 Dec;7(4):652-8.

[10] **Olsson CE**, Pettersson N, Alsadius D, Wilderäng U, Tucker S L, Johansson K-A, and Steineck G. *Patient-reported genitourinary toxicity for long-term prostate cancer survivors treated with radiation therapy*. Br J Cancer 2013 108:1964-1970.

[9] Alevronta E, Lind H, al-Abany M, Waldenström A-C, **Olsson C**, Dunberger G, Mavroidis P, Nyberg T, Johansson K-A, Åvall-Lundqvist E, Steineck G, and Lind B K. *Dose-response relationships for an atomized symptom of fecal incontinence after gynaecolological radiotherapy.* Acta Oncol. 2013, May;52(4):719-26.

[8] Pettersson N, **Olsson C**, Tucker S, Alsadius D, Wilderäng U, Johansson K-A, and Steineck G. *Urethral pain among prostate cancer survivors one to fourteen years after radiation therapy.* Int J Radiat Oncol Biol Phys. 2013 Jan 1;85(1):e29-37.

[7] Jernås M, Malmeström C, Axelsson M, **Olsson C**, Nookaew I, Wadenvik H, Zetterberg H, Blennow K, Lycke J, Rudemo M, and Olsson B. *MS risk genes are transcriptionally regulated in CSF leukocytes at relapse.* Mult Scler. 2013 Apr; 19(4):403-10.

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