

CURRICULUM VITAE

Personal Information	
Title	Associate Professor, Dr.
Name	Michael Brun Andersen
Degree	MD, PhD
Country	Denmark
Affiliation	Copenhagen University Hospital and Copenhagen University
Department	Department of Radiology and Department of Clinical Medicine
	
Educational Background	
<p>Received PhD within the field of advanced CT in lung cancer from the Dept. of Clinical Medicine, Aarhus University (2022) Recognition as consultant in radiology (2014) Cand. Med. from Copenhagen University (2007)</p>	
Professional Career	
<p>(2022 – present) Copenhagen University and Copenhagen University Hospital - Herlev/Gentofte: Senior Researcher/Associate Professor – Head of thoracic radiology and research (2019 – present) Copenhagen University Hospital – Herlev/Gentofte: Senior consultant in thoracic radiology (2016 – 2022) Zealand University Hospital – Roskilde and Aarhus University Hospital: PhD Fellow (2014 – 2019) Zealand University Hospital – Roskilde: Consultant in radiology</p>	
Research Field	
<p>My research centers on improving early and accurate cancer detection through the use of spectral CT and photon-counting CT. I have mainly been focused on conducted larger studies for example on the use of spectral CT in patients suspected of occult cancer, demonstrating significantly increased diagnostic sensitivity and reduction in unnecessary follow-up procedures across abdominal organs such as the liver, pancreas, kidneys, and adrenal glands.</p> <p>Recently the focus has been on exploring the diagnostic advantages of photon-counting CT, in abdominal radiology, particularly its ability to visualize fine anatomical structures and subtle lesions that are difficult to detect with conventional CT. These efforts aim to increase diagnostic confidence and optimize clinical workflows in complex oncological cases.</p> <p>In parallel, the group is actively working on the clinical validation and implementation of artificial intelligence in radiology, focusing on how AI algorithms can enhance diagnostic accuracy, streamline decision-making, and be safely integrated into routine clinical practice.</p>	
Main Scientific Publications	
<p>Brandt EGS, Müller CF, Thomsen H, Rodell AB, Ibragimov B, Andersen MB. Imaging the pancreas with photon-counting CT – A review of normal pancreatic anatomy. European Journal of Radiology [Internet]. 13. september 2024 [henvist 16. september 2024];0(0). Tilgængelig hos: https://www.ejradiology.com/article/S0720-048X(24)00452-2/fulltext</p> <p>Andersen MB, Ebbesen D, Thygesen J, Kruis M, Rasmussen F. Impact of spectral body imaging in patients suspected for occult cancer: a prospective study of 503 patients. Eur Radiol. oktober 2020;30(10):5539–50.</p>	

Plesner LL, Müller FC, Brejnebo MW, Krag CH, Lastrup LC, Rasmussen F, m.fl. Using AI to Identify Unremarkable Chest Radiographs for Automatic Reporting. *Radiology*. august 2024;312(2):e240272.

Müller FC, Raaschou H, Akhtar N, Brejnebo M, Collatz L, Andersen MB. Impact of Concurrent Use of Artificial Intelligence Tools on Radiologists Reading Time: A Prospective Feasibility Study. *Acad Radiol*. juli 2022;29(7):1085–90.

Amiri S, Karimzadeh R, Vrtovec T, Brandt EGS, Thomsen HS, Andersen MB, m. fl. Centerline-guided reinforcement learning model for pancreatic duct identifications. *Journal of medical imaging*, Vol 11, Issue 6, 0640023 (November 2024). <https://doi.org/10.1117/1.JMI.11.6.064002>

Plesner LL, Müller FC, Brejnebo MW, Lastrup LC, Rasmussen F, Nielsen OW, m.fl. Commercially Available Chest Radiograph AI Tools for Detecting Airspace Disease, Pneumothorax, and Pleural Effusion. *Radiology*. sep 2023;308(3): <https://doi.org/10.1148/radiol.231236>

Plesner LL, Müller FC, Nybing JD, Lastrup LC, Rasmussen F, Nielsen OW, m.fl. Autonomous Chest Radiograph Reporting Using AI: Estimation of Clinical Impact. *Radiology*. maj 2023;307(3):e222268.

Drljevic-Nielsen A, Mains JR, Thorup K, Andersen MB, Rasmussen F, Donskov F. Early reduction in spectral dual-layer detector CT parameters as favorable imaging biomarkers in patients with metastatic renal cell carcinoma. *Eur Radiol*. november 2022;32(11):7323–34.

Andersen MB, Ebbesen D, Thygesen J, Kruis M, Gu Q, Dharaiya E, m.fl. Economic impact of spectral body imaging in diagnosis of patients suspected for occult cancer. *Insights Imaging*. 20. december 2021;12(1):190.

Andersen MB, Bodtger U, Andersen IR, Thorup KS, Ganeshan B, Rasmussen F. Metastases or benign adrenal lesions in patients with histopathological verification of lung cancer: Can CT texture analysis distinguish? *Eur J Radiol*. maj 2021;138:109664.