

# Curriculum Vitae

Tobias Todsén, MD, PhD

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# Short Curriculum Vitae

## TOBIAS TODSEN, MD, PhD

**BIO:** My primary research area is in technical and clinical sciences, focusing on improving patient diagnostics and developing minimally invasive treatments. I have developed new techniques for diagnostic ultrasound, obtained a patent, and am a cofounder of a startup company (3Sonic) that utilizes the patent to create a novel 3D ultrasound medical device. I am the president of the Danish Society of Diagnostic Ultrasound, and the course director for the leading international Head & Neck Ultrasound Course, which has trained >200 physicians from > 35 countries. Further, I have more than ten years of experience producing e-learning material with >300.000 views in total:



[www.kliniskeprocedurer.dk](http://www.kliniskeprocedurer.dk) | [vimeo.com/todsén](https://vimeo.com/todsén) | [youtube.com/@todsén](https://youtube.com/@todsén)

## ACADEMIC QUALIFICATIONS

- |      |   |
|------|---|
| 2016 | • Doctor of Philosophy (PhD), University of Copenhagen. |
| 2014 | • Medical Doctor (MD). University of Copenhagen         |

## EMPLOYMENTS AND CLINICAL TRAINING

- |                |   |
|----------------|---|
| 2024 – present | • Coordinating Associate Professor, Technical University Hospital (DTU/RH)      |
| 2022 – present | • Consultant, Dept. of Otolaryngology-H&N Surgery, Rigshospitalet               |
| 2022 – present | • Associate Professor, University of Copenhagen                                 |
| 2019 – 2021    | • Assistant Professor, University of Copenhagen                                 |
| 2016 – 2022    | • Specialty registrar training, Otolaryngology-H&N Surgery, Køge/Rigshospitalet |
| 2015 – 16      | • Research Fellow, CAMES/Otolaryngology-H&N Surgery, Rigshospitalet             |
| 2014 – 15      | • Foundation Doctor, Queen Ingrid's Hospital, Nuuk, Greenland                   |

## RESEARCH

I am an experienced clinical researcher who has led several **multicenter, randomized clinical** trials involving more than **30,000 participants in total**. I have published **84 peer-reviewed publications**, **>1800 citations**, and an **H-index of 20** (Google Scholar) and won several prizes for my research. I am the director of the SURGiC research group at Rigshospitalet, for which I have received more **than 8 million EURO in competitive research grants**. I am currently the primary supervisor of four Ph.D. students and have completed supervision of one PhD student, one postdoc, seven master's, and four bachelor's theses.

## TEACHING EXPERIENCE

- |                |  |
|----------------|--|
| 2020 – present | • Course director for 'Data in Medicine' at University of Copenhagen.                            |
| 2020 – present | • Course director for <a href="#">Copenhagen International Head &amp; Neck Ultrasound Course</a> |
| 2021           | • Author of a WHO guide for upper airway sampling techniques for COVID-19                        |
| 2019           | • Course director for AfHNS Neck Ultrasound Course, Harare, Zimbabwe                             |

## ADMINISTRATIVE SERVICE

- |                |   |
|----------------|---|
| 2022 – present | • President of the Danish Society of Diagnostic Ultrasound (DSDU) |
| 2023 – present | • Editor for Diagnostics  |

## HONOURS AND AWARDS

- |      |   |
|------|---|
| 2024 | • Selected as <b>Top 3 Best Clinical Trial 2024</b> by the Danish Medical Association |
| 2023 | • Winner of <b>Best Abstract</b> , International Congress of ORL-HNS, Seoul, S. Korea |
| 2020 | • Winner of <b>EFSUMB Young Investigator Award</b> , EUROSON, Bergen, Norway          |
| 2016 | • Winner of the <b>Best Research Paper</b> . AMEE conference in Barcelona, Spain.     |

## INNOVATION AND ENTREPRENEURSHIP

- |      |   |
|------|---|
| 2025 | • Spinout company at Bioinnovative Institute (BII) incl 4 MIO DKK Grant |
| 2022 | • Patency for a novel 3D ultrasound technology (appl. no. 22161064.5)   |

## Personal data

Name: Tobias Todsén

Born 11/02 1985, Svendborg.

Student from Aabenraa Gymnasium 2004.

Married and live in Birkeroed with our three children.

Email: [tobias.todsén@regionh.dk](mailto:tobias.todsén@regionh.dk)

☎ DECT: +45 3545 6008

☎ Private: +45 5184 7468

Personal website: [tobiastodsén.com](http://tobiastodsén.com)

Linkedin: [linkedin.com/in/todsén](https://linkedin.com/in/todsén)

## BIO

Tobias's primary research focuses on combining technical research with clinical science to improve patient diagnostics and minimally invasive treatments. He is the research director of the Surgical Ultrasound Research Group in Copenhagen (SURGiC), an interdisciplinary group comprising both medical doctors and technical engineers. His award-winning research group has also developed several innovative solutions, filed patent applications, and established a spinout company called 3Sonic. Tobias is also the Coordinating Associate Professor for the Technical University Hospital of Greater Copenhagen (TUH) and President of the Danish Society of Diagnostic Ultrasound (DSDU). He is the course director of the Copenhagen International Head & Neck Ultrasound Course, a yearly course he initiated five years ago, which has since become the world-leading head and neck ultrasound course, having trained over 200 doctors from more than 30 countries. Tobias has raised over 8 million EURs in competitive funding and led several multicenter randomized clinical trials, including over 30,000 participants. He has won several prizes for his research, which has been published in the highest surgical and medical journals.

Tobias is the course director for a new course, "Data in Medicine" (5 ECTS), for medical students (2<sup>nd</sup> semester, bachelor's degree) at the University of Copenhagen. As course director, he was responsible for developing the curriculum for the new course that aimed to introduce medical students to the use of clinical data and new digital technologies, such as Artificial Intelligence in medicine. He led the course to successful implementation as part of the new curriculum for the Bachelor of Science in Medicine during the spring semester of 2025, with 296 medical students enrolled. Tobias is also an experienced pre- and post graduate teacher and has been developing technology-enhanced learning materials for students. He made educational websites and online videos with > 300,000 views, including a World Health Organization (WHO) clinical guide.

## Education and employments

### Education

2022	Certified Specialist in Otorhinolaryngology, Head and Neck Surgery
2022	Research Management Course, Copenhagen Business School
2016	PhD in Clinical Medicine, University of Copenhagen
2015	Authorization for independent medical practice, Dronning Ingrid's Hospital, Greenland.
2014	Medical Doctor, University of Copenhagen.

### Current positions

2025–current	Senior Consultant. Department of Otorhinolaryngology, Head and Neck Surgery & Audiology, Copenhagen University Hospital, Rigshospitalet.
2025–current	Clinical Professor, DTU Compute, Technical University of Denmark
2024–current	President of the Danish Society of Diagnostic Ultrasound (DSDU)
2024–current	The Coordinating Professor for the Technical University Hospital (TUH) Rigshospitalet at Centre of Head and Orthopaedics (HOC)

### Previous employments and academic positions

2023–2025	Course director for 'Data in Medicine'. Faculty of Health and Medical Science, University of Copenhagen
2022–2025	Consultant. Department of Otorhinolaryngology, Head and Neck Surgery & Audiology, Copenhagen University Hospital, Rigshospitalet.
2022–2025	Associate professor, Department of Clinical Medicine, University of Copenhagen
2022–2024	President-Elect for the Danish Society of Diagnostic Ultrasound (DSDU)
2019–2021	Assistant professor, Department of Clinical Medicine, University of Copenhagen
2017–2022	Specialty registrar training in Otorhinolaryngology, Head and Neck Surgery at the Department of Otorhinolaryngology, Head and Neck Surgery & Audiology, Copenhagen University Hospital, Rigshospitalet, and Department of Otorhinolaryngology and Maxillofacial Surgery, Zealand University Hospital, Køge.
2016–2017	Internship. Twelve months. Department of Otorhinolaryngology and Maxillofacial Surgery, Zealand University Hospital, Køge, Denmark
2016–2021	<i>Paternity leave:</i> 2016 (Two months), 2018 (Three months), and 2021 (Two months)

- 2015–2016      PhD research Fellow. Twelve months. Department of Otorhinolaryngology, Head and Neck Surgery & Audiology *and* Copenhagen Academy for Medical Education and Simulation, Copenhagen University Hospital, Rigshospitalet
- 2015              Internship in General Medicine. Six months. Queen Ingrid's Hospital, Nuuk, Greenland
- 2014–15          Foundation doctor in Internal Medicine (Six months) and Surgery (Six months). Department of Internal Medicine and Department of Surgery, Queen Ingrid's Hospital, Nuuk, Greenland

## Research

### Research output

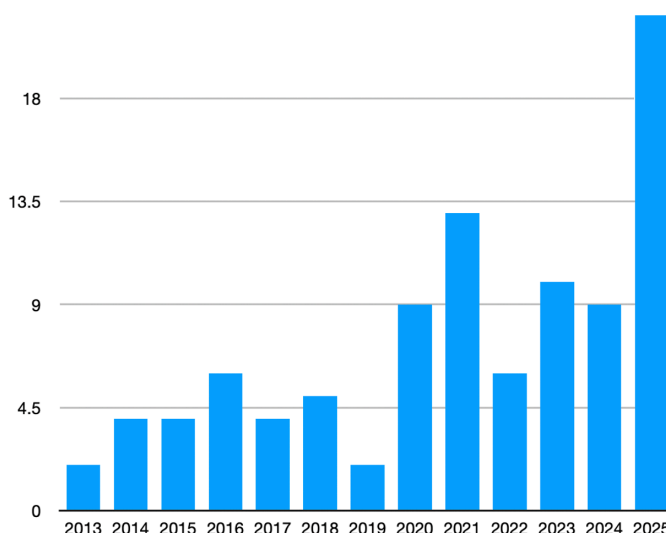
Peer-reviewed publications: 87

(26 as first author and 30 as the last author)

Citations (Google Scholar): 1,882

H-index (Google Scholar): 20

ORCID: <https://orcid.org/0000-0003-3267-3560>



### Honors and awards

- |      |  |
|------|--|
| 2024 | <b>Award of Recognition</b> by the Taiwan Society of Ultrasound in Medicine, Taipei, Taiwan  |
| 2024 | Winner of the <b>Young Investigator Award</b> (including 2,000 EURO), Diagnostics, MDPI Basel, Switzerland   |
| 2024 | PI on study selected as the <b>Top 3 Best Clinical Trial 2024 in Denmark</b> by the Danish Medical Association   |
| 2023 | Winner of the <b>Best Abstract award</b> (including 500 EURO) at the International Congress of ORL-HNS, Seoul, South Korea   |
| 2021 | Winner of the <b>2<sup>nd</sup> best Oral Presentation Award</b> (including 350 EURO) by the Danish Society of Otolaryngology, Head and Neck Surgery. DSOHH conference in Nyborg, Denmark. |
| 2020 | Winner of the <b>EFSUMB Young Investigator Award</b> (including 3,000 EURO), European Federation of Societies for Ultrasound in Medicine and Biology, EUROSON 2020, Bergen, Norway         |
| 2020 | Selected as <b>Clinical Emerging Investigator</b> by the Novo Nordisk Fondens Research Leader Programme, including 8 million DKK in research funding for a five-year period.               |
| 2016 | Winner of the <b>Research Paper Award</b> by the Association of Medical Education in Europe. AMEE conference in Barcelona, Spain.  |
| 2016 | Rewarded with a travelling scholarship to residents in ORL-H&N surgery from the Danish Society of Otorhinolaryngology– Head and Neck.  |
| 2015 | Rewarded with a travelling scholarship from the Danish Society of Diagnostic Ultrasound.   |
| 2011 | Rewarded with a <b>scholarship</b> from The Medical Society of Copenhagen.   |

## Academic supervision

I am currently the main supervisor of four Ph.D. students, two master's theses, and one bachelor's thesis. I completed the supervision of one postdoc, one PhD student, seven master's theses, and four bachelor's theses in medical science at the University of Copenhagen. My PhD student (Martin Zamani) has won the Young Investigator's Award 2024 in Naples, Italy, by the European Federation for Ultrasound (EFSUMB), as well as the Young Investigator's Award 2025 in Kyoto, Japan, by the World Federation for Ultrasound (WFUMB). Furthermore, he won first prize for the best research study by the Danish Society of Otorhinolaryngology and Head and Neck Surgery (DSOHH) in Nyborg in 2024. My postdoc (Fatemeh Makouei) won a prize for best research study by the World Federation for Ultrasound (WFUMB) in Timișoara, Romania, 2022 and by the Danish Society of Diagnostic Ultrasound (DSDU) 2022 in Odense, Denmark. I have been co-supervising one master thesis student at the Department of Computer Science, University of Copenhagen, and one student from the Technical University of Denmark (DTU) during an internship course. Furthermore, I have served as an external examiner for one master's thesis at the Technical University of Denmark (DTU).

### Current PhD students:

- |         |   |
|---------|---|
| 2024–27 | Main supervisor of PhD student<br>Title: 3D ultrasound for improved perioperative margin assessment during oral cancer surgery<br>PhD Student: Daniel Lauritzen, MD                             |
| 2024–27 | Main supervisor of PhD student<br>Title: Transoral ultrasound performed in the outpatient clinic to improve diagnostic workup of oropharyngeal diseases<br>PhD Student: Amalie Hartvig Pall, MD |
| 2024–27 | Main supervisor of PhD student<br>Title: Perioperative transoral ultrasound to improve diagnostic and treatment of oropharyngeal cancer<br>PhD Student: Nina Buhl Sannino-Greve, MD             |
| 2023–26 | Main supervisor of PhD student<br>Title: Improving the diagnostic work up of thyroid nodules:<br>Exploring new biopsy techniques and Proteome profiling<br>PhD Student: Kasper Dugaard, MD      |

### Completed supervision

#### Supervision of PhD student

- |         |  |
|---------|--|
| 2021–24 | Main supervisor of PhD student (defended 9 <sup>th</sup> May 2025)<br>Title: Transoral ultrasound to improve diagnostic work-up of |
|---------|--|



oropharyngeal cancer  
PhD Student: Martin Zamani, MD

### **Supervision of postdoc**

2021–24      Supervisor of postdoc  
Title: Novel 3D ultrasound techniques for improved diagnostic of head and neck cancer  
Postdoc: Fatemeh Makouei, PhD

### **Supervision of master students**

2025      Title: A Feasibility Study Exploring the use of 3D ultrasound to count the number of Lymph Nodes in Neck Dissection Specimens  
Master Student: Joachim Bugge Thestrup Kjelde

2024      Title: Molecular Detection of SARS-CoV-2 From Throat Swabs Performed With or Without Specimen Collection From the Tonsils: Protocol for a Multicenter RCT  
Master Student: Benedikte Hartvigsen

2024      Title: Oropharyngeal versus nasopharyngeal swab for COVID-19 testing – a systematic review.  
Master Student: Yosef Joda Kathum Abdel Amir

2024      Title: Human-computer collaboration on ultrasound diagnostics of thyroid nodules – a clinical trial.  
Master Student: Axel Bukhave Edström

2024      Title: Development of and Gathering Validity Evidence for a Theoretical Test in Head and Neck Ultrasound  
Master Student: August K Mikkelsen

2023      Title: Diagnostic accuracy of ultrasound-guided fine needle aspirations performed in a one-stop cancer clinic  
Master Student: Alex Berg Kristensen

2023      Title: 3D ultrasound: Accuracy in Thyroid volume measurement.  
Master Student: Klara Bay Rask

2023      Title: Transfer from hands-on neck ultrasound training to patient diagnostics  
Master Student: Jens Warm

### **Supervision of bachelor students**

2025      Title: A review about the use of transoral and transcervical ultrasound to examine oropharynx tumors  
Bachelor Student: Amin Akrami

2024      Title: Core needle biopsy and Tumor Seeding  
Bachelor Student: Sixten Schunck

2024      Title: MicroCT for assessment of resection margins after Cancer Surgery.

Bachelor Student: Caroline Schwenger

2020            Title: Education in clinical reasoning using virtual patients  
Student: Simon Bauder Led Sørensen

## **Member of the PhD assessment committees**

### **2025**

PhD student:            Olof Nilsson, MD  
University:            Örebro University, Sweden  
Title of PhD thesis:    Early oral cancer: evaluation of ultrasound, narrow band imaging and marginal  
mandibulectomy  
Defense date:           14<sup>th</sup> Marts 2025, Örebro University

PhD student:            Julie Jepsen Strøm  
University:            Aalborg University, Denmark  
Title of PhD thesis:    Focused lung ultrasound by general practitioners in adults with acute lower  
respiratory tract infection  
Defense date:           24<sup>th</sup> September 2025, Aalborg University

PhD student:            Komal Srinivasa.  
University:            University of Auckland, New Zealand  
Title of PhD thesis:    The Role, Usage, and Appraisal of Online Videos in Postgraduate Health  
Education: Developing a quality assessment rubric for online medical videos  
in procedural skill training  
Defense date:           TBA

## Peer-reviewed publications

Pubmed link: <https://pubmed.ncbi.nlm.nih.gov/?term=todsén+t&sort=date>

<b>Total number of peer-review publications</b>	<b>87</b>
<b>Number of publications as first author</b>	<b>26</b>
<b>Number of publications as the last author</b>	<b>28</b>

1. **EFSUMB Guidelines on Multiparametric Ultrasound Thyroid Nodule Evaluation: PART II.**  
Cantisani V, Radzina M, Dietrich CF, Jenssen C, Prosch H, Appelbaum L, Barr RG, Bhatia KSS, Dighe M, Durante C, Fresilli D, Grani G, Harvey C, Huang P, Ivanac G, Lim A, Ozbek SS, Secil M, **Todsén T**, Trimboli P.  
Ultraschall Med. 2025. doi: 10.1055/a-2761-1329. Online ahead of print. PMID: 41330557
2. **EFSUMB Guidelines on Multiparametric Ultrasound Thyroid Nodule Evaluation: PART I.**  
Cantisani V, Radzina M, Dietrich CF, Jenssen C, Prosch H, Appelbaum L, Barr RG, Bhatia KSS, Dighe M, Durante C, Fresilli D, Grani G, Harvey C, Huang P, Ivanac G, Lim A, Ozbek SS, Secil M, **Todsén T**, Trimboli P.  
Ultraschall Med. 2025. doi: 10.1055/a-2761-1191. Online ahead of print. PMID: 41330556
3. **[Endosonography in head and neck imaging and surgery]. Brandt M, Garset-Zamani M, Bozzato A, Weimer JM, Arens C, Dietrich CF, Todsén T, Künzel J. Laryngorhinootologie. 2025 Dec;104(12):801-814. doi: 10.1055/a-2695-0909. Epub 2025 Dec 1.**
4. **Diagnostic performance of upper airway sampling sites for SARS-CoV-2 and influenza testing.**  
Lopez-Perez M, Benfield T, Jakobsen KK, Dal MH, Stange SD, Ersbøll AK, Larsen H, Berger SS, Gredal T, Buchwald Cv, Kirkby N, **Todsén T**.  
Microbiol Spectr. 2025:e0221225. Epub ahead of print. PMID: 41247054.
5. **Caution Comparing Transoral Ultrasonography With Postbiopsy Magnetic Resonance Imaging-Reply.**  
Garset-Zamani M, Mikkelsen R, **Todsén T**.  
JAMA Otolaryngol Head Neck Surg. 2025. Epub ahead of print. PMID: 41196627.
6. **Adding a tonsil specimen to a throat swab does not improve the detection rate of SARS-CoV-2 - a multicenter randomized controlled trial.**  
Hartvigsen B, Jakobsen KK, Benfield T, Gredal NT, Ersbøll AK, Grønlund MW, Bundgaard H, Andersen MP, Steenhard N, von Buchwald C, **Todsén T**.  
Diagn Microbiol Infect Dis. 2025 Oct 29;114(2):117168. Epub ahead of print. PMID: 41187657.
7. **Improvement in Thyroid-Specific Quality of Life After Radio Frequency Ablation of Symptomatic Benign Solitary Thyroid Nodules: A Prospective Cohort Study.**  
Kaltoft M, Sørensen JR, Cramon PK, **Todsén T**, Hahn CH.  
Head Neck. 2025. doi: 10.1002/hed.70086. Epub ahead of print. PMID: 41159382.

- 8. Enabling micro-assessments of skills in the simulated setting using temporal artificial intelligence-models.**  
Bang Andersen I, Søndergaard Svendsen MB, Risgaard AL, Sander Danstrup C, **Todsen T**, Tolsgaard MG, Friis ML.  
Med Teach. 2025. doi: 10.1080/0142159X.2025.2555353. Epub ahead of print. PMID: 40914879.
- 9. Evaluation of Multiple-Choice Tests in Head and Neck Ultrasound Created by Physicians and Large Language Models.**  
Nielsen JPS, Mikkelsen AK, Kuenzel J, Sebelik ME, Madani G, Yang TL, **Todsen T**.  
Diagnostics. 2025. 22;15(15):1848. PMID: 40804813
- 10. Thyroid Volume Measurement with AI-assisted Freehand 3D Ultrasound Compared to 2D Ultrasound – A Clinical Trial**  
Rask KB, Makouei F, Wessman MHJ, Kristensen TT, and **Todsen T**  
Head Neck. Accepted 23 July 2025. DOI: 10.1002/hed.28267
- 11. Evaluation of Multiple-choice Tests in Head and Neck Ultrasound created by Physicians and Large Language Models**  
Nielsen JPS, Mikkelsen AK, Kuenzel J, Sebelik ME, Madani G, Yang TL, and **Todsen T**  
Diagnostics 2025, 15, 1848. <https://doi.org/10.3390/diagnostics15151848>
- 12. Spinal Needles Versus Conventional Needles for Fine-Needle Aspiration Biopsy of Thyroid Nodules - A Multicenter Randomized Controlled Trial**  
Larsen KD, Hvilsom GB, Andersen TV, Homøe P, Bennedbæk FN, Pedersen J, Bjergved L, Warm JJ, Kiss K, Lelkaitis G, Andersen L, Rosenørn MR, Hegedüs L, Ersbøll AK, Lomholt AF, Kaltoft M, Hahn CH, **Todsen T**  
PLoS One. 2025;20(7):e0321043. PMID: 40743258
- 13. Surgeon-Performed Transoral Ultrasound for Detection and Staging of Oropharyngeal Cancers**  
Garset-Zamani M, Hvilsom GB, Kjærgaard T, O’Leary P, Wennerwaldt K, Bøgh M, Hahn CH, Kaltoft M, Plaschke CC, Mikkelsen R, Norling R, Dejanovic D, Hall JM, Agander TK, Wessel I, Ersbøll AK, Buchwald Cv, and **Todsen T**.  
JAMA Otolaryngol Head Neck Surg. 2025:e251954. Epub ahead of print. PMID: 40674091
- 14. Development and Validation of a Multiple-choice Test for Head and Neck Ultrasound Certification**  
Mikkelsen AK, Künzel J, Orloff LA, Sebelik ME, McQueen A, Madani G, Konge L, Yang TL, Melchior J, Weimer J, and **Todsen T**  
Eur Arch Otorhinolaryngol. 2025. Epub ahead of print doi: 10.1007/s00405-025-09533-3. PMID: 40652140
- 15. Diagnosticering af pneumoparotis med simpel øre-næse-hals-undersøgelse uden billeddiagnostik.**  
Nozadze G, **Todsen T**, Lomholt AF.  
Ugeskr Laeger. 2025;187(24):V73004. PMID: 40539301.
- 16. Feasibility of 3D ultrasound for intraoperative tumor margin assessment in transoral robotic surgery for oropharyngeal squamous cell carcinoma: A pilot study.**  
Garset-Zamani M, Makouei F, Agander TA, Lelkaitis G, Charabi BW, Tvedskov JF, Rubek N, Lomholt AF, Frehr TD, Norling R, Buchwald Cv, **Todsen T**  
Oral Oncology. 2025. Epub ahead of <https://doi.org/10.1016/j.oraloncology.2025.107330>.

- 17. HPV-Positive Squamous Cell Carcinoma Metastasis Without Clinical Evidence of Primary: The Posterior Oropharyngeal Wall May Be an Overlooked Location.**  
Sjöstedt S, Garset-Zamani M, Korsholm K, Agander TK, **Todsén T**, Wessel I.  
Head Neck. 2025. Epub ahead of print. PMID: 40190266.
- 18. Office-Based Drainage of a Parapharyngeal Abscess with Surgeon-Performed Transoral Ultrasound.**  
Sjölander H, Garset-Zamani M, **Todsén T**.  
Laryngoscope. 2025.. Epub ahead of print. PMID: 39950339.
- 19. Human-AI collaboration for ultrasound diagnosis of thyroid nodules: a clinical trial.**  
Edström AB, Makouei F, Wennervaldt K, Lomholt AF, Kaltoft M, Melchior J, Hvilsom GB, Bech M, Tolsgaard M, **Todsén T**.  
Eur Arch Otorhinolaryngol. 2025. Epub ahead of print. PMID: 39920508.
- 20. Long-term effect and safety of mesenchymal stromal cell therapy for radiation-induced hyposalivation in head and neck cancer survivors: A randomised, phase-2, trial.**  
Fenger Carlander AL, Jakobsen KK, **Todsén T**, Paaske N, Østergaard Madsen AK, Bendtsen SK, Kastrup J, Friberg J, Duch Lynggaard C, Hauge AW, Christensen R, Grønhøj C, von Buchwald C.  
Clin Cancer Res. 2025. doi: 10.1158/1078-0432.CCR-24-2663. PMID: 39751638
- 21. Endosonography in head and neck imaging and surgery.**  
Brandt M, Garset-Zamani M, Bozzato A, Weimer JM, Arens C, Dietrich CF, **Todsén T**, Künzel J.  
Ultraschall Med. 2024. doi: 10.1055/a-2451-9373.
- 22. The unrecognized importance of the throat in the early stage of SARS-CoV-2 infection. Todsén T.**  
Diagn Microbiol Infect Dis. 2024;111:116650
- 23. Surgeon-performed intraoperative transoral ultrasound improves the detection of human papillomavirus-positive head and neck cancers of unknown primary.**  
Garset-Zamani M, Lomholt AF, Charabi BW, Norling R, Dejanovic D, Hall JM, Makouei F, Agander TK, Ersbøll AK, von Buchwald C, **Todsén T**.  
Oral Oncol. 2024;159:107073. PMID: 39406014
- 24. Feasibility of a Novel 3D Ultrasound Imaging Technique for Intraoperative Margin Assessment during Tongue Cancer Surgery**  
Makouei F, Frehr TH, Agander TK, Lelkaitis G, Dal MH, Kaltoft M, Orloff L, Sebelik M, Svendsen MBS, Wessel I and **Todsén T**  
Curr. Oncol. 2024, 31, 4414–4431.
- 25. Comparison of Transoral and Transcervical Ultrasonography with MRI for the Diagnostic Work-Up of Oropharynx Tumors: A Protocol for a Multicenter Clinical Trial (SPOTUS)**  
Garset-Zamani M, Hvilsom GB, Kjærgaard T, Plaschke CC, Hahn CH, Kaltoft M, O'Leary P, Frid NL, Norling R, Dejanovic D, Hall JM, Agander TK, Nielsen SB, Ersbøll AK, Wessel I, Buchwald CV, **Todsén T**.  
Diagnostics. 2024;14(6):577. PMID: 38534997
- 26. Molecular detection of SARS-CoV-2 from throat swabs performed with or without specimen collection from the palatine tonsils: Proposal for a multicenter randomized controlled trial**  
Hartvigsen B, Jakobsen KK, Benfield T, Gredal NT, Ersbøll AK, Grønlund M, Bundgaard H, Andersen MP, Steenhard N, Buchwald CV, and **Todsén T**  
JMIR Res Protoc. 2024;13:e47446. PMID: 38865190.

- 27. Mesenchymal Stem/Stromal Cell Therapy for Radiation-Induced Xerostomia in Previous Head and Neck Cancer Patients: A Phase II Randomized, Placebo-Controlled Trial.** Clin Cancer Res. Jakobsen KK, Carlander AF, **Todsén T**, Melchior J, Paaske N, Østergaard Madsen AK, Kloch Bendtsen S, Mordhorst C, Stampe H, Kastrup J, Ekblond A, Haack-Sørensen M, Farhadi M, Maare C, Friberg J, Lynggaard CD, Werner Hauge A, Christensen R, Grønhøj C, von Buchwald C. Clin Cancer Res. 2024;30:2078-2084. PMID: 38441659.
- 28. Intraoral Ultrasound versus MRI for Depth of Invasion Measurement in Oral Tongue Squamous Cell Carcinoma: A Prospective Diagnostic Accuracy Study.** Kaltoft, M.; Hahn, C.H.; Wessman, M.; Hansen, M.L.; Agander, T.K.; Makouei, F.; Wessel, I.; **Todsén, T.** Cancers 2024, 16, 637. <https://doi.org/10.3390/cancers16030637>
- 29. Head and neck ultrasound training improves the diagnostic performance of otolaryngology residents** Warm J, Melchior J, Kristensen T, Aabenhus K, Charabi B, Eberhard K, Konge L, Buchwald Cv, **Todsén T** Laryngoscope Investigative Otolaryngology. 2023;1-8. doi:10.1002/lio2.1201
- 30. COVID-19 Rapid Antigen Tests With Self-Collected vs Health Care Worker-Collected Nasal and Throat Swab Specimens: A Randomized Clinical Trial** **Todsén T\***, Jakobsen KK\*, Grønlund MP, Callesen R, Folke F, Larsen H, Ersbøll AK, Benfield T, Gredal NT, Klokke M, Kirkby N, von Buchwald C JAMA Network Open. 2023;6(12):e2344295
- 31. Transoral Ultrasound in the Outpatient Clinic for the Diagnostic Work-Up of Oropharyngeal Cancer: A Feasibility Study.** Garset-Zamani M, Norling R, Hahn CH, Agander TK, von Buchwald C, **Todsén T.** Cancers. 2023;15(21):5292. PMID: 37958465
- 32. 3D Ultrasound and MRI in Assessing Resection Margins during Tongue Cancer Surgery: A Research Protocol for a Clinical Diagnostic Accuracy Study.** Makouei F, Agander TK, Ewertsen C, Søndergaard Svendsen MB, Norling R, Kaltoft M, Hansen AE, Rasmussen JH, Wessel I, **Todsén T.** J Imaging. 2023;9(9):174. PMID: 37754938.
- 33. Effectiveness and safety of mesenchymal stem/stromal cell for radiation-induced hyposalivation and xerostomia in previous head and neck cancer patients (MESRIX-III): a study protocol for a single-centre, double-blinded, randomised, placebo-controlled, phase II study.** Jakobsen KK, Carlander AF, Grønhøj C, **Todsén T**, Melchior J, Paaske N, Madsen AKØ, Kastrup J, Ekblond A, Haack-Sørensen M, Farhadi M, Maare C, Friberg J, Lynggaard CD, von Buchwald C. Trials. 2023;24:567. PMID: 37658468
- 34. Ultralyddiagnostik af peritonsillær absces i akutmodtagelsen.** Poulsen MW, **Todsén T.** Ugeskr Laeger. 2023;185(23):V71183. PMID: 37325984.
- 35. Using Virtual Reality Head-Mounted Displays to Assess Skills in Emergency Medicine: Validity study.** Knudsen MH, Breindahl N, Dalsgaard TS, Isbye D, Mølbak AG, Tiwald G, Svendsen MBS, Konge L, Bergström J, **Todsén T.** J Med Internet Res. 2023;25:e45210. PMID: 37279049.

- 36. Higher SARS-CoV-2 detection of Oropharyngeal compared to Nasopharyngeal or Saliva Specimen for Molecular Testing: A Multicentre Randomised Comparative Accuracy Study**  
Todsen T, Tolsgaard M, Folke F, Jakobsen KK, Ersbøll AK, Benfield T, von Buchwald C, Kirkby N. Thorax. 2023;78:1028-1034. PMID: 37208187
- 37. Diagnostics and treatment of cysts of the neck.**  
Kaltoft M, Stage MG, Todsen T, Hahn CH. Ugeskr Laeger. 2023;185:V10220661. PMID: 36896617
- 38. Lymfeknuder med "snowstorm sign".**  
Mogensen DV, Todsen T. Ugeskr Laeger. 2023;185(10):V71163. PMID: 36896607
- 39. Head-to-Head Comparison of Nasopharyngeal, Oropharyngeal and Nasal Swabs for SARS-CoV-2 Molecular Testing.**  
Larsen KD, Jensen MM, Homøe AS, Arndal E, Samuelsen GB, Koch A, Nielsen XC, Homøe P, Todsen T. Diagnostics. 2023;13(2):283. PMID: 36673094
- 40. 3D Ultrasound versus Computed Tomography for Tumor Volume Measurement Compared to Gross Pathology-A Pilot Study on an Animal Model.**  
Makouei F, Ewertsen C, Agander TK, Olesen MV, Pakkenberg B, Todsen T. J Imaging. 2022;8(12):329. PMID: 36547494
- 41. Comparison of SARS-CoV-2 Reverse Transcriptase Polymerase Chain Reaction and BinaxNOW Rapid Antigen Tests at a Community Site During an Omicron Surge.**  
Todsen T, Benfield T. Ann Intern Med. 2022;175(10):W119. PMID: 36252254
- 42. Head and Neck Ultrasound - EFSUMB Training Recommendations for the Practice of Medical Ultrasound in Europe.**  
Todsen T, Ewertsen C, Jenssen C, Evans R, Kuenzel J. Ultrasound Int Open. 2022;8(1):E29-E34. PMID: 36212171
- 43. Subjective and psychophysical olfactory and gustatory dysfunction among COVID-19 outpatients; short- and long-term results.**  
Jensen MM, Larsen KD, Homøe AS, Simonsen AL, Arndal E, Koch A, Samuelsen GB, Nielsen XC, Todsen T, Homøe P. PLoS One. 2022;17(10):e0275518. PMID: 36191024
- 44. Spinal versus conventional fine needle for ultrasound-guided thyroid nodule biopsy: a protocol for a randomised clinical trial.**  
Andersen TV, Bennedbæk FN, Pedersen J, Rosenørn MR, Kiss K, Lelkaitis G, Andersen L, Hegedüs L, Lomholt AF, Hahn CH, Hvilsom GB, Homøe P, Todsen T. Dan Med J. 2022;69(8):A03220165. PMID: 35959834
- 45. Valid and Reliable Assessment of Upper Respiratory Tract Specimen Collection Skills during the COVID-19 Pandemic.**  
Todsen T, Bohr A, Hovgaard LH, Eið RC, Benfield T, Svendsen MBS, Kirkby N, Konge L, von Buchwald C, Melchior J, Tolsgaard M. Diagnostics. 2021;11(11):1987. PMID: 34829333
- 46. Accuracy of anterior nasal swab rapid antigen tests compared with RT-PCR for massive SARS-CoV-2 screening in low prevalence population.**

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**49. Optimal Insertion Depth for Nasal Mid-Turbinate and Nasopharyngeal Swabs.**

Callesen RE, Kiel CM, Hovgaard LH, Jakobsen KK, Papesch M, von Buchwald C, **Todsen T**. Diagnostics. 2021;11(7):1257. PMID: 34359340

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Bundgaard JS, Raaschou-Pedersen DT, **Todsen T**, Ringgaard A, Torp-Pedersen C, Von Buchwald C, Iversen K, Bundgaard H. Int J Infect Dis. 2021;109:195-198. PMID: 34216732

**51. Accuracy and cost description of rapid antigen test compared with reverse transcriptase-polymerase chain reaction for SARS-CoV-2 detection.**

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60. **Self-Collected versus Healthcare Worker-Collected Swabs in the Diagnosis of Severe Acute Respiratory Syndrome Coronavirus 2.**

Therchilsen JH, von Buchwald C, Koch A, Dam Nielsen S, Rasmussen DB, Thudium RF, Kirkby NS, Raaschou-Pedersen DET, Bundgaard JS, Iversen K, Bundgaard H, **Todsén T.** Diagnostics. 2020;10(9):678. PMID: 32916801

61. **Face masks for the prevention of COVID-19 - Rationale and design of the randomised controlled trial DANMASK-19.**

Bundgaard H, Bundgaard JS, Raaschou-Pedersen DET, Mariager AF, Schytte N, von Buchwald C, **Todsén T.** Skovgaard K, Trebbien R, Andersen MP, Benfield T, Ullum H, Torp-Pedersen C, Iversen K. Dan Med J. 2020;67(9):A05200363. PMID: 32829745.

62. **African Head and Neck Society Clinical Practice guidelines for thyroid nodules and cancer in developing countries and limited resource settings.**

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63. **Point-of-care ultrasound for general practitioners: a systematic needs assessment.**

Løkkegaard T, **Todsén T.** Nayahangan LJ, Andersen CA, Jensen MB, Konge L. Scand J Prim Health Care. 2020;38(1):3-11. PMID: 31955658

64. **Protocol for a randomised clinical trial of transoral ultrasound versus standard of care in the diagnosis of peritonsillar abscess.**

**Todsén T.** Stage MG, Michaelsen SH, Tolsgaard MG, Melchior J, Madsen AR, Hahn CH, Godballe C. Dan Med J. 2019;66(11):A5573. PMID: 31686648.

65. **Vedvarende periorbital hævelse hos en syvårig.**

**Todsén T.** Djurhuus B.

Ugeskr Laeger. 2019;181(16):V70255. PMID: 31036148.

66. **A Novel Technique for Intraoral Ultrasound-Guided Aspiration of Peritonsillar Abscess.**

**Todsén T.** Stage MG, Holst Hahn C.

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67. **[Vedvarende stikkende fremmedlegeme fornemmelse i svelg].**

**Todsén T.** Jørkov A.

Ugeskr Laeger. 2018;180(10):V69538. Danish. PMID: 29692323.

68. **Procedure-specific assessment tool for flexible pharyngo-laryngoscopy: gathering validity evidence and setting pass-fail standards.**

Melchior J, Petersen K, **Todsén T.** Bohr A, Konge L, von Buchwald C.

Eur Arch Otorhinolaryngol. 2018;275(6):1649-1655. PMID: 29666918.

69. **Surgeon-performed ultrasonography.**

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Dan Med J. 2017;64(11):B5421. PMID: 29115210.

**70. Cost-Effectiveness of Mobile App-Guided Training in Extended Focused Assessment with Sonography for Trauma (eFAST): A Randomized Trial.**

Nilsson PM, **Todsén T**, Subhi Y, Graumann O, Nolsøe CP, Tolsgaard MG.  
Ultraschall Med. 2017;38(6):642-647. PMID: 28950381.

**71. Competency-based assessment in surgeon-performed head and neck ultrasonography: A validity study.**

**Todsén T**, Melchior J, Charabi B, Henriksen B, Ringsted C, Konge L, von Buchwald C.  
Laryngoscope. 2018;128(6):1346-1352. PMID: 28868625.

**72. An Addition to the Technical Skills Assessment Toolbox.**

**Todsén T**, Ringsted C.  
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**73. Rating scale for the assessment of competence in ultrasound-guided peripheral vascular access – a Delphi Consensus Study.**

Primdahl SC, **Todsén T**, Clemmesen L, Knudsen L, Weile J.  
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**74. Self-directed simulation-based training of emergency cricothyroidotomy: a route to lifesaving skills.**

Melchior J, **Todsén T**, Nilsson P, Kohl AP, Böttger M, Charabi B, Konge L, von Buchwald C.  
Eur Arch Otorhinolaryngol. 2016;273(12):4623-4628. PMID: 27380270.

**75. Woman with globulus sensation.**

**Todsén T**, Lober A, Lynggaard F.  
Ugeskr Laeger. 2016;178(8):V67046. PMID: 27063200.

**76. Cricothyroidotomy - The emergency surgical airway.**

Melchior J, **Todsén T**, Konge L, Charabi B, von Buchwald C.  
Head Neck. 2016;38(7):1129-31. PMID: 27028109.

**77. Assessment of competence in focused assessment with sonography for trauma (FAST) examination.**

**Todsén T**, Tolsgaard MG.  
J Trauma Acute Care Surg. 2016;80(2):353. PMID: 26595706.

**78. Transfer from point-of-care Ultrasonography training to diagnostic performance on patients--a randomized controlled trial.**

**Todsén T**, Jensen ML, Tolsgaard MG, Olsen BH, Henriksen BM, Hillingsø JG, Konge L, Ringsted C. Am J Surg. 2016;211(1):40-5. PMID: 26323998.

**79. Developing an emergency ultrasound app - a collaborative project between clinicians from different universities.**

Foss KT, Subhi Y, Aagaard R, Bessmann EL, Bøtker MT, Graumann O, Laursen CB, Weile J, **Todsén T**.  
Scand J Trauma Resusc Emerg Med. 2015;23:47. PMID: 26092581

**80. Preparing for emergency: a valid, reliable assessment tool for emergency cricothyroidotomy skills.**

Melchior J, **Todsén T**, Nilsson P, Wennervaldt K, Charabi B, Böttger M, Konge L, von Buchwald C.  
Otolaryngol Head Neck Surg. 2015;152(2):260-5. PMID: 25385808.

**81. Effect of engaging trainees by assessing peer performance: a randomised controlled trial using simulated patient scenarios.**

Krogh CL, Ringsted C, Kromann CB, Rasmussen MB, **Todsen T**, Jørgensen RL, Jacobsen RB, Dahl JB, Konge L.  
Biomed Res Int. 2014;2014:610591. PMC4054978.

**82. An integrable, web-based solution for easy assessment of video-recorded performances.**

Subhi Y, **Todsen T**, Konge L.  
Adv Med Educ Pract. 2014;5:103-5. PMID: 24833946.

**83. [Development and use of web-based apps]**

Subhi Y, Foss KT, Henriksen M, **Todsen T**.  
LOM 10/2014;7(1):12.

**84. Designing web-apps for smartphones can be easy as making slideshow presentations.**

Subhi Y, **Todsen T**, Ringsted C, Konge L.  
BMC Res Notes. 2014;7:94. PMID: 24552200.

**85. Reliable and valid assessment of point-of-care ultrasonography.**

**Todsen T**, Tolsgaard MG, Olsen BH, Henriksen BM, Hillingsø JG, Konge L, Jensen ML, Ringsted C.  
Ann Surg. 2015;261(2):309-15. PMID: 24509198.

**86. International multispecialty consensus on how to evaluate ultrasound competence: a Delphi consensus survey.**

Tolsgaard MG, **Todsen T**, Sorensen JL, Ringsted C, Lorentzen T, Ottesen B, Tabor A.  
PLoS One. 2013;8(2):e57687. PMID: 23469051.

**87. Short- and long-term transfer of urethral catheterization skills from simulation training to performance on patients.**

**Todsen T**, Henriksen MV, Kromann CB, Konge L, Eldrup J, Ringsted C.  
BMC Med Educ. 2013;13:29. PMID: 23433258

*\* Shared first authorship*

## Book Chapters

1. **Todsen T**, Melchior J. Chapter 32: [Nødtrakeotomi]. Cricothyroidotomy. In: Gjørde L, Subhi Y, Konge L, editor(s). Procedurehåndbogen. Munksgaard (Denmark), Ltd; 2014. P 86–88.
2. **Todsen T**, Melchior J. Chapter 40: [Otoskopi]. Otoscopy. In: Gjørde L, Subhi Y, Konge L, editor(s). Procedurehåndbogen. Munksgaard (Denmark), Ltd; 2014. P 110–112.
3. **Todsen T**, Konge L: [Læring og uddannelse i klinisk ultralydskanning]. Point of Care Ultrasound Education: Christian B. Laursen and Ole Graumann, editors. Basal Klinisk Ultralydsdiagnostik. Munksgaard (Denmark), Ltd; 2017.
4. **Todsen T**, Melchior J: [Hals ultralyd]. Neck ultrasound. In: Christian B. Laursen and Ole Graumann, editors. Basal Klinisk Ultralydsdiagnostik. Munksgaard (Denmark), Ltd; 2017.
5. **Todsen T**, **Hahn CH** [Ører] Ear. In: Jeppe LH Vinding and Karen L Ellekjær, editors. Klinisk basisbog. Munksgaard (Denmark), Ltd; 2018.
6. **Todsen T**, **Hahn CH** [Næse] Nose. In: Jeppe LH Vinding and Karen L Ellekjær, editors. Klinisk basisbog. Munksgaard (Denmark), Ltd; 2018.

7. **Todsén T, Hahn CH** [Mund og hals] Mouth and Throat. In: Jeppe LH Vinding and Karen L Ellekjær, editors. Klinisk basisbog. Munksgaard (Denmark), Ltd; 2018.

## Reviewer for

- Lancet Infectious Disease
- Thyroid
- European Journal of Ultrasound
- Head and Neck
- Medical Education
- Cancers
- Ultrasound International Open
- Viruses
- Diagnostics
- BMC Medical Education
- Advances in Health Sciences Education

## Scientific committee

2026 EUROSON congress 2026, Lublin, Poland.

## Chairmanship at scientific congresses

2026 CEORL-HNS congress in Gothenburg. Chair at two sessions about head and neck cancer.

2024 EUROSON congress 2024, Naples, Italy. Chair at an oral session about head and neck ultrasound.

2022 WFUMB congress 2023, Timișoara, Romania. Chair at a scientific session about ultrasound of salivary glands.

2018 AMEE conference 2018, Basel, Switzerland. Chair at a poster session at the. 5EE - Curriculum Evaluation.

## Research funding

Received competitive funding in total (as the main applicant): >60 MIO DKK:

### **2025**

**30.100.000 DKK** Grand Solution from Innovation Fund Denmark (*main applicant*)

*AIMICS: An AI-driven Multidimensional Imaging Platform to Improve Cancer Surgery*

**30.000 DKK** Undervisningskvalitetspuljen (*main applicant*)

*Developing software for interactive AI programming exercises for medical students*

**111.000 DKK** Undervisningskvalitetspuljen (*main applicant*)

*Developing software for interactive AI programming exercises for medical students*

**250.000 DKK** from Hanseatic Life Science Research Infrastructure Consortium (HALRIC) (*main applicant*)

*3D Investigation of oral cancer invasion patterns using synchrotron X-ray phase contrast imaging*

**4.000.000 DKK** BioInnovation Institute (*main applicant*)

*Selected for the BII Venture Lab program. Received a convertible loan to build a 3Sonic startup company to bring our research-based innovation to market.*

**2024**

**5.388.000 DKK** Sundhedsdonationer (*main applicant*)

*Improving Oral Cancer Surgery Outcomes: A Multicenter Randomized Clinical Trial on Intraoperative Ultrasound for Margin Evaluation*

**993.000 DKK** Pioneer Innovator Grant from Novo Nordisk Fonden (*main applicant*)

*3Sonic - A novel intraoperative 3D Ultrasound System to ensure complete cancer removal during surgery*

**200.000 DKK** fra Undervisningskvalitetspuljen (*main applicant*)

*Development of an online video platform for clinical skills teaching*

**120.000 DKK** from Novo Nordisk Fonden (*main applicant*)

*Scholarship for a research year student*

**2023**

**322.805 DKK** from Hanseatic Life Science Research Infrastructure Consortium (HALRIC) (*main applicant*)

*Feasibility of Micro-Computed Tomography Imaging for Assessment of Surgical Resection Margins and Microscopic Lymphatic Metastasis During Cancer Surgery*

**1.497.362 DKK** from Innovation Fund Denmark (*main applicant*)

*3Sonic: A Novel Intraoperative Imaging Device for Margin Assessment During Cancer Surgery*

**317.540 DKK** fra Undervisningskvalitetspuljen (*main applicant*)

*Implementation and testing of a new interactive Virtual Reality training software (360MedQuest) for medical students*

**500.000 DKK** from BETA.HEALTH (*main applicant*)

*3Sonic – innovation of a medical device to assess surgical margins in cancer surgery*

**1.400.000 DKK** from Eureka Network Eurostars EU grant (*main applicant*)

*(Rigshospitalet is part of a big grant application together with Lifeline Robotics and collaborators from the Netherlands and Spain)*

*Clinical validation of automatic swab robot for diagnostics of upper airway infections*

**120.000 DKK** from Novo Nordisk Fonden (*main applicant*)

*Scholarship for a research year student*

## **2022**

**500.000 DKK** from BETA.HEALTH (*main applicant*)

*A novel 3D ultrasound technique to assess surgical margins in cancer surgery*

**300.000 DKK** from Toyota Fonden (*main applicant*)

*PET-CT-Ultrasound fusion for diagnostic work-up of head and neck cancer*

**1.499.723 DKK** from Innovation Fund Denmark (*main applicant*)

*A novel 3D ultrasound technique to assess surgical margins in cancer surgery*

## **2021**

**5.774.254 DKK** fra Novo Nordisk Fonden (*main applicant*)

*SARS-CoV-2 in saliva, oropharyngeal, and nasopharyngeal specimen – a clinical trial*

**225.000 DKK** fra Aage og Johanne Louis-Hansens Fond 2021 (*main applicant*)

*SARS-CoV-2 in saliva, oropharyngeal, and nasopharyngeal specimen – a clinical trial*

## **2020**

**8.045.969 DKK** fra Novo Nordisk Fonden 2020 (*main applicant*)

*Transoral ultrasound to improve diagnostic work-up of patients suspected with Oropharyngeal cancer*

**540.000 DKK** fra Rigshospitalets forskningsfond (*main applicant*)

*Surgeon-performed ultrasound to improve cancer diagnostics*

## **2019**

**200.000 DKK** fra Toyotafonden 2019 (*main applicant*)

*Transoral ultrasound to improve diagnostic work-up of patients suspected with Oropharyngeal cancer*

## **2018**

**500.000 DKK** fra Rigshospitalets-OUH samarbejdsfond (*main applicant*)

*Transoral ultralydsvejledt aspiration af peritonsilær abscesser – et multicenter RCT*

## **2017**

**189.000 DKK** fra Undervisningskvalitetspuljen (*co-applicant*)

*360-graders VR video om den akutte patient.*

**55.000 DKK** fra Kræftens Bekæmpelse

*360-graders virtual reality video i sikker kirurgi*

## **2015**

**50.000 DKK** fra Edgar Schnohr Fond 2015 (*main applicant*)

*Løntilskud til sammenskrivning af Ph.D.*

**380.000 DKK** fra Undervisningskvalitetspuljen (*co-applicant*)

*Online forberedelse af kirurgiske teknikker til kliniske ophold*

## **2013**

**140.000 DKK** fra Undervisningskvalitetspuljen (*co-applicant*)

*Undervisning af kliniske lektorer i brug af video i den kliniske undervisning*

**160.000 DKK** fra Undervisningskvalitetspuljen (*co-applicant*)

*Videobaseret undervisning i akutte luftvejslidelser*

## **2012**

**400.000 DKK** fra Undervisningskvalitetspuljen (*co-applicant*)

*Optimering af den kliniske træning ved brug af applikation og selvregulatoriske læringsstrategier*

## **2011**

**120.000 DKK** fra Det Medicinske Selskab København (DMSK) (*main applicant*)

*Skolarstipendiat*

## **2010**

**350.000 DKK** fra Undervisningskvalitetspuljen (*co-applicant*)

*Instruktionsvideoer til træning af kliniske færdigheder*

Invited presentations

2025



Invited Speaker at the 60<sup>th</sup> Anniversary meeting for the Society of Danish Patients with Head and Neck Cancer (DHLM). Middelfart, Denmark

Invited Speaker at Universitetssjukhuset Örebro, Sweden.

Invited Speaker at the annual meeting for the Danish Society of Radiology in Copenhagen, Denmark

2024

Invited Speaker in a TIROxMDS webinar organized by Thyroid, Head and Neck Cancer (THANC) Foundation. Invited as thyroid experts in a Podcast for Thyroid Clinicians

Invited Speaker at The Danish ENT Academy Pediatric ENT Symposium | Copenhagen

Invited Speaker at The Hanseatic Life Science Research Infrastructure Consortium (HALRIC) 2024 in Hamburg

Invited Speaker at the Copenhagen MedTech Innovation Summit | Copenhagen

Invited Speaker at the EUROSON conference, Naples, Italy

Invited Speaker at the 6<sup>th</sup> Asia Pacific International Symposium on Advances in Medical Ultrasound (APISAMU), Taipei, Taiwan

Invited Speaker at the 40<sup>th</sup> Anniversary & 2024 Annual Convention of The Taiwan Society of Ultrasound in Medicine (TSUM), Taipei, Taiwan

Invited Speaker at the 125<sup>th</sup> years anniversary session during the National meeting for the Danish Society of Otorhinolaryngology – Head and Neck Surgery, Nyborg, Denmark

Invited Speaker at the spring meeting of the Swedish Association for Head and Neck Surgery (Svenskt sällskap för huvud- och halskirurgi)

2023

Invited Speaker at the EUROSON conference, Riga, Latvia

Invited Speaker at the International Congress of ORL-HNS 2023, Seoul, South Korea

Invited Speaker at the Symposium on Extended Reality hosted by the Department of Computer Science, University of Copenhagen

Invited Speaker at the AI in Medicine conference at Rigshospitalet organized by Copenhagen MedTech

2022

Invited Speaker at the WFUMB congress 2023, Timișoara, Romania.

Invited Speaker at the Winfocus World Congress, online.

2019

Invited as Speaker at the RIME conference, Copenhagen, Denmark

2018

Guest Lecture at the 17th Copenhagen–Nottingham Ear, Nose and Throat Dissection Course, Copenhagen, Denmark

2017

Invited Speaker at the National meeting for the Danish Society of Otorhinolaryngology – Head and Neck Surgery, Nyborg, Denmark

- 2016 Invited Speaker at the EFSUMB Joint Committee about Student Education in point-of-care Ultrasound. EUROSON conference, Leipzig.
- 2015 Invited Speaker at the AMS Phoenix 2015 Conference. Faculty of Medicine at the University of Toronto. Toronto Canada.
- Invited Speaker at the Autumn meeting in the Danish Society of Diagnostic Ultrasound. Aarhus.

## Teaching and e-learning

### Teaching experience

- 2025 Teacher at the course “How to use your research skills in the clinical work” at the Graduate School of Health and Medical Sciences, University of Copenhagen
- 2025-current Course director for ‘TUH MedTech Innovation Workshop’. A two-day workshop organized together with Johns Hopkins University.
- 2023-current Course director for ‘Data in Medicine’ (5 ETCS point) at 2<sup>nd</sup> semester Bachelor, Medical school, University of Copenhagen.
- 2019-current Teacher of Otorhinolaryngology residents (A-kursus) in Ultrasound on an early basis (7 hours). Odense University Hospital (OUH), Odense Denmark.
- 2019-current Teacher of Otorhinolaryngology residents in Head and Neck Ultrasound. Copenhagen Academy for Medical Education and Simulation, Rigshospitalet (8 hours). One – two times a year.
- 2019-2021 Teacher in basic ultrasound skills for physicians. Copenhagen Academy for Medical Education and Simulation, Rigshospitalet (3 hours). 4-6 times a year.
- 2020 Teacher of Otorhinolaryngology residents and ward nurses in emergency ENT cases. Department of Otorhinolaryngology and Maxillofacial Surgery, Zealand University Hospital, Køge, Denmark (14 hours simulation training)
- 2018 Faculty at the American College of Surgeons’ Thyroid, Parathyroid, and Neck Ultrasound Course. Cape Town, South Africa. (7,5 hours).
- Teacher of Otorhinolaryngology residents in Intraoral Ultrasound. Department of Otorhinolaryngology, Head and Neck Surgery, Odense University Hospital (OUH), Odense Denmark (2 hours)
- Teacher of Otorhinolaryngology residents in Intraoral Ultrasound. Department of Otorhinolaryngology, Head and Neck Surgery & Audiology, Copenhagen University Hospital, Rigshospitalet. (8 hours).
- 2015-17 Teacher of medical students and nursing students in interdisciplinary communication skills. Copenhagen Academy for Medical Education and Simulation, Rigshospitalet (64 hours).
- 2014 Teacher of nursing students in emergency conditions in Otolaryngology-Head and Neck Surgery. Nursing school Nuuk, University of Greenland (4 hours).

- 2013 Course developer and teacher at a course for associate professors at the department of Clinical Medicine in how to make and integrate videos in their clinical teaching (14 hours). Centre for Clinical Education.
- 2008-2014 Peer Teacher at the Centre for Clinical Education teaching technical skills like ultrasound, resuscitation and life support, musculoskeletal examination, physical examination, and basic clinical skills (above 700 hours).

### E-learning material

I have produced more than 70 clinical educational videos on Vimeo and Youtube with >70.000 online views early and >300.000 views in total ([vimeo.com/todsen](https://vimeo.com/todsen) and [youtube.com/@todsen](https://youtube.com/@todsen)). Further, I have developed open-access educational website for clinical and surgical procedures:

<https://www.open-surgery.com>  
<https://www.kliniskeprocedurer.dk/>

I have also been working with new technologies with 3D and 360-degree virtual reality video learning environments.

### Websites and VR apps

An VR application for Oculus Rift with 360-degree VR videos with integrated MCQ's for assessment of decision-making skills in emergency medicine. Offered as simulations course at CAMES, Rigshospitalet.

### Videos (selected)

A WHO videoinstruction about how to collect clinical specimens for COVID-19 testing. Author and video developer. <https://youtu.be/jh6ls9oPyyw>

360VR videoinstruction about the safety surgery checklist. Author and video developer.  
<https://www.youtube.com/watch?v=4hoP4gmqRPU&t=125s>

Videoinstruction in Emergency surgical cricothyrotomy. Author and video developer  
<https://www.youtube.com/watch?v=XpcrsVNGoM4>

Videoinstruction in basic suture technique for skin closure [In Danish]. Author and videodeveloper.  
<https://vimeo.com/33144565/>

Videoinstruction in peripheral iv insertion technique [In Danish]. Author and video developer.  
<https://vimeo.com/33148619>

For more videos see

<https://vimeo.com/todsen> or  
<https://www.youtube.com/channel/UCVjTgoLXFSrktxzqZFBnv3Q/videos>

### Workshops at scientific conferences

- 2023 Lecturer and hands-on instructor for Head and Neck Ultrasound Workshop during the EUROSON 2023 in Riga, Latvia

- 2019 Organizer and chair: Head and Neck Ultrasound Workshop for the African Head and Neck Society (AfHNS), 3rd AfHNS conference, Harare, Zimbabwe
- 2019 Chair at workshop: Videos in clinical teaching – a workshop on how to create and design videos for medical education. Research in Medical Education (RIME) Conference, Copenhagen, Denmark
- 2018 Chair at workshop: How to shoot, edit and distribute educational videos through Social Media (SoMe). Association of Medical Education in Europe Conference. Basel, Switzerland.

## Administrative service

### Administration positions

2024-current	President of the Danish Society of Diagnostic Ultrasound
2023-current	Editor for Diagnostics (Impact Factor 3.6) <a href="https://www.mdpi.com/journal/diagnostics">https://www.mdpi.com/journal/diagnostics</a>
2021	Chairman for the national meeting of the Danish Society of Diagnostic Ultrasound (DUDS). Rigshospitalet, Copenhagen, Denmark.
2021	Presentation about URT sampling techniques for the Danish Health Authority (Sundhedsstyrelsen) COVID-19 Taskforce.
2019-present	Case editor for the World Federation for Ultrasound in Medicine and Biology.
2019-present	Board member of Danish Society of Diagnostic Ultrasound

### Professional Society Membership

2023-present	Member of the Collegium Oto-Rhino-Laryngologicum Amicitiae Sacrum (CORLAS)
2019-present	Member of the Danish Society of Diagnostic Ultrasound
2014-present	Member of the Danish Society of Otorhinolaryngology – Head and Neck Surgery
2014-present	Member of the Medical Society of Copenhagen
2013-present	Member of the Danish Greenlandic Society for Circumpolar Health

## Innovation and entrepreneurship

My innovative work includes developing the first technique for transoral ultrasound-guided aspiration of peritonsillar abscess, now refined for improved diagnostic work-up of oropharyngeal cancer in ongoing Ph.D. projects where I serve as the primary supervisor.

I have also invented and built a novel 3D ultrasound scanner designed to evaluate surgical margins during cancer surgery. The device is currently undergoing testing in clinical practice at Rigshospitalet and Aarhus University Hospital.

Together with colleagues from the Department of Computer Science at the University of Copenhagen, we have developed a 360-degree Virtual Reality app (360MEdQuest) to Assess Skills in Emergency Medicine. The app has been integrated into the medical students' teaching as a supplement to simulation training.

### Patencies

I have published a patent for a novel 3D ultrasound technology (appl. no. 22161064.5) together with Fatemeh Makouei. The patent has been translated into Japanese and Korean and is currently under review in the EU, the USA, Japan, and South Korea.

In addition to this patent, I have two other patents pending (unpublished), which have received positive news reports.

### Entrepreneurship

Cofounder of 3Sonic. The startup company is a spinout from our 3D ultrasound research and part of the BioInnovation Institute Venture Lab program. The company has received more than 5 MIO DKK in investments to develop a CE-approved medical device that utilizes 3D ultrasound to assess surgical margins during cancer surgery.

## **Society, media, and global health**

I am also actively involved in society and the media landscape as a health advocate. Further, I am involved in a global health project to make surgeon-performed ultrasound imaging available as a low-cost tool for hospitals in Africa.

### **GLOBAL HEALTH**

A lack of diagnostic imaging is a significant challenge for surgical care in many developing countries and limited-resource settings. Therefore, I worked on a global health project to make point-of-care ultrasound imaging available as a low-cost tool in the hands of surgeons in collaboration with the African Head and Neck Society (AfHNS). I have been teaching at ultrasound courses in Cape Town, South Africa (2018) and Harare, Zimbabwe (2019) organized for African head and neck surgeons. I have also initiated a scholarship for African head and neck surgeons who can apply for full travel and accommodation for US training and fellowship at Rigshospitalet. The scholarship is sponsored from a surplus from our international ultrasound course in Copenhagen. We have currently trained five ENT doctors from Zimbabwe, one from Ghana, and three from Uganda. Furthermore, we have sponsored two point-of-care ultrasound machines for Harare, Zimbabwe, and one machine each for Mbarara and Kampala, Uganda.

### **MEDIA**

#### **TV interviews**

##### **TV 2 News**

Interview 22. February 2021 "Forskere på Rigshospitalet undersøger spytpøver som coronatest":

<https://nyheder.tv2.dk/2021-02-22-forskere-paa-rigshospitalet-undersoeger-spytpoever-som-coronatest>

##### **TV2 kosmopol**

Interview 22. February 2021: "Forskere på Riget tjekker om corona kan opdages i spyt":

<https://www.tv2kosmopol.dk/koebenhavn/forskere-paa-riget-tjekker-om-corona-kan-opdages-i-spyt>

##### **DR 21 Søndag**

Interview 21. February 2021: "Hjemmetest kan blive det nye våben i corona-kampe":

<https://www.tobiastodsén.com/media?pgid=ljnrcdu0-673da3af-a747-4152-b9fd-ceff0015d055>

### **Podcasts**

2024

##### **American Scientific**

Interview for Podcast 4. March 2024 about how to swab for COVID-19 testing:

<https://www.scientificamerican.com/podcast/episode/should-you-swab-your-throat-plus-your-nose-for-covid/>

## **Thorax Podcast**

Interview for Podcast about my research exploring the difference detection rates for oral and nasal swabs for detection of corona virus:

<https://thoraxbmj.podbean.com/e/comparing-covid-detection-rates-between-oral-and-nasal-swabs-with-dr-tobias-todsén/>

## **Opinion Letters to Newspaper**

2022

Published letter about cancer diagnostics with title "Screening for kræft er et tveægget sværd" to **JydskeVestkysten**:

<https://jv.dk/debat/screening-for-kraeft-er-et-tveaegget-svaerd>

## **Interviews with the newspapers**

2021

### **Berlingske / Information / Politiken / BT / Jyllandsposten**

Articles about an Interview with Ritzau about using salivary samples for COVID-19 testing 22. February 2021 published as news articles in some of the following newspapers:

[https://www.berlingske.dk/danmark/forskere-tjekker-om-spytproever-kan-bruges-til-coronaopsporing?gaa\\_at=eafs&gaa\\_n=ASWzDAhliqAJg2I8TKTwt2aQtD6QFukbbDaWbLUZxp1di4FRS5J2i6QbWF5Hbgfzhz0%3D&gaa\\_ts=687e0a5b&gaa\\_sig=nCKrDmOhlEVy0DxEQJAIBhurwt3Pwl\\_b3vHIoQ1HbA45\\_wYp3CVujh9q4Xkh\\_LFPhPbhHQwbQqZQ5W7FOiuA0A%3D%3D](https://www.berlingske.dk/danmark/forskere-tjekker-om-spytproever-kan-bruges-til-coronaopsporing?gaa_at=eafs&gaa_n=ASWzDAhliqAJg2I8TKTwt2aQtD6QFukbbDaWbLUZxp1di4FRS5J2i6QbWF5Hbgfzhz0%3D&gaa_ts=687e0a5b&gaa_sig=nCKrDmOhlEVy0DxEQJAIBhurwt3Pwl_b3vHIoQ1HbA45_wYp3CVujh9q4Xkh_LFPhPbhHQwbQqZQ5W7FOiuA0A%3D%3D)

<https://politiken.dk/danmark/sundhed/art8110246/Forskere-tjekker-om-spytpr%C3%B8ver-kan-bruges-til-coronaopsporing>

<https://www.information.dk/telegram/2021/02/forskere-tjekker-spytproever-kan-bruges-coronaopsporing>

[https://www.bt.dk/samfund/forskere-tjekker-om-spytproever-kan-bruges-til-coronaopsporing?gaa\\_at=eafs&gaa\\_n=ASWzDAjyhOImLPKnzho6ajm2CG-IMdTCDenWp2GVjvS0-nNuMybcZkV6tTdavINrebY%3D&gaa\\_ts=687f2603&gaa\\_sig=fNmouDAonOKuFzLY2Y-r2bZV58kEg7OUZeff0tkMF-CAzKgZdwsoMyJId\\_Gorn9xs\\_pEz-4TzE2UUmfDSB4yTA%3D%3D](https://www.bt.dk/samfund/forskere-tjekker-om-spytproever-kan-bruges-til-coronaopsporing?gaa_at=eafs&gaa_n=ASWzDAjyhOImLPKnzho6ajm2CG-IMdTCDenWp2GVjvS0-nNuMybcZkV6tTdavINrebY%3D&gaa_ts=687f2603&gaa_sig=fNmouDAonOKuFzLY2Y-r2bZV58kEg7OUZeff0tkMF-CAzKgZdwsoMyJId_Gorn9xs_pEz-4TzE2UUmfDSB4yTA%3D%3D)

<https://jyllands-posten.dk/nyviden/ECE12777987/forskere-kontrollerer-om-spytproever-kan-bruges-til-coronaopsporing/>

### **Sjællandske Nyheder**

Interview published 2 July 2020 "Læge vil finde flere små kræftknuder i mandlerne":

<https://www.sn.dk/art1358022/koege-kommune/laege-vil-finde-flere-smaa-kraeftknuder-i-mandlerne/>

## **PATIENTS ORGANISATIONS**



Invited Speaker at the 60<sup>th</sup> Anniversary meeting for the Society of Danish Patients with Head and Neck Cancer (DHLM). Middelfart, Denmark

2020

Interview for SKA magasin (information paper for patients with cancer)

“Kræft I svælget bliver måske bedre opdaget med ultralydsscanning gennem munden”:

[https://www.skaccd.org/index.php?option=com\\_content&view=article&id=63&Itemid=114](https://www.skaccd.org/index.php?option=com_content&view=article&id=63&Itemid=114)