

CURRICULUM VITAE: Toril Skandsen b. 1962

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Current work positions:

Professor, Norwegian University of Science and Technology (60 %). Consultant; Clinic of Rehabilitation, St. Olavs Hospital, Brain Injury Unit (Lian), St. Olavs Hospital (50 %).

Higher education / licenses:

1987: Cand. med. Faculty of Medicine; University of Trondheim. 1989: Authorised Medical Doctor (MD)

1999: Specialist in Physical Medicine and Rehabilitation.

2010: PhD in clinical medicine

2021: Professor in Physical Medicine and Rehabilitation

Clinical work (in the current position)

- Responsible for the out-patient clinic for patients with post-concussion symptoms
- Consultant for in-patients with TBI when needed.

Teaching activity

- Leader of the Teaching Unit for Physical Medicine and Rehabilitation at the study program for medicine (Medical School).
- Teaching, including lectures and other teaching activities at the study program for medicine regarding Physical Medicine and Rehabilitation and in particular brain injury rehabilitation.

PhD thesis:

“Moderate and severe traumatic brain injury. Magnetic resonance imaging findings, cognition and risk factors for disability”. NTNU, 21th May 2010

Research group:

Trondheim TBI group (<https://www.ntnu.no/inb/tbi>), leader.

Co-lead by Prof Asta Håberg (neuroscience, also Head of Trondheim fMRI group at NTNU, and the Research Centre MiDT, St. Olav’s University Hospital.)

Scientific supervision:

PhD level, main supervisor:

- Cathrine E Einarsen MD (PhD 2019).
- Rune H. Karlsen cand psych (PhD 2020)
- Rabea Iris Pantelatos (PhD 2024)
- Linda Fordal, cand psych
- Mari Olsen, MD

PhD level, co-supervisor:

- Kent Gøran Moen (PhD 2014)
- Veronika Brezova (PhD 2014)
- Jonas Stenberg (PhD 2021)
- Simen Berg Saksvik (PhD 2021)
- Edona Zilkqiqi, cand psych
- Gøril Storvig, M.Sc

Research program student, main supervisor

- Maria Ilene Sandboe

Current projects as principal investigator:

- Health Service Innovation Project: early intervention after mild head injury, since March 2024.
- Postconcussion symptoms after mild head injury: a follow-up study. Cristin-ID: 638905
- Neurophysiology of postconcussion symptoms and other pain conditions. Cristin-ID: 2545347
- Exercise in postconcussion symptoms and posttraumatic headache. Cristin-ID: 2553882
- Mild and moderate traumatic brain injury. Funded 2013-2020 (June 30th)
- ACT-based rehabilitation of postconcussion symptoms: a randomised controlled study. Cristin-ID: 2505021

National collaboration and projects

- Local PI: Severe traumatic brain injury in Norway. A multicentre study. St. Olavs Hospital was one of the participants. 2009-2014.
- A national group on exercise in mild TBI.

International collaboration and international projects

- Harvard University: Prof Grant L Iverson
- Cambridge University: Prof David Menon og research Fellow Virginia Newcombe
- CENTER-TBI: a multicentre study started in 2015, including 20 000 patients across more than 60 European hospitals, funded by the 7th framework program of the EU commission. St. Olavs Hospital was a participating centre with Trondheim TBI-group carrying out the tasks. We were one of the top recruiting centres in the MRI substudy.
- ERA-net Neuron: A New Traumatic Axonal Injury Classification Scheme based on Clinical and Improved MR Imaging Biomarkers
- GAIN (Get going after concussion) 2.0. Aarhus University and Hammel Neurocentre, Denmark. Co-supervisor.

Recent dissemination of research (not publications)

04.10.24: Fredagsforelesning St. Olavs hospital: Hjernerystelse – hva når symptomene ikke går over?

17.09.24: Seminar, Sunnaas sykehus: Postcommotio symptomer og posttraumatisk hodepine i en klinisk setting. En situasjonsbeskrivelse og tanker om veien videre.

26.01.24: Kurs i regi av Sandvika Nevrosenter: Forelesning 1 «Hjernerystelse – hva skjer i hjernen?»

Forelesning 2 «Post commotio symptomer – hvem utvikler det og hvordan unngå/håndtere det?

24.01.24: Innlegg på REHAB-24: Håndtering av lette hodeskader.

Publications since 2020 (last 5 years)

In addition to the publications below, I am listed as CENTER-TBI participant on ~65 publications.

1. Fordal L, Iverson GL, Maietta JE, Olsen A, Einarsen CE, Saksvik SB, **Skandsen** T, Examining and Comparing the Clinical Characteristics of Adults with Persisting Post-concussion Symptoms Presenting for Outpatient Rehabilitation Following a Mild Traumatic Brain Injury or a Minimal Head Injury. J Rehabil Med. 2025. In revision.
2. Sæterstad C, Pantelatos RI, Stenberg AJ, Moen KG, Håberg AK, Vik A, **Skandsen** T. Duration of the posttraumatic confusional state after moderate and severe traumatic brain injury: impact of injury severity and preinjury factors. Frontiers Neurol. In revision. 2025.
3. Pantelatos RI, **Skandsen** T, Follestad T, Sandrød O, Sætersad C, Einarsen CE, Moen KG, Vik A, Stenberg J. Prediction of outcome in moderate and severe traumatic brain injury – the value of pragmatic estimation of the duration of posttraumatic confusional state. Archives of Rehabilitation Research and Clinical Translation. 2025. In press.
4. Rauwenhoff JCC, Hagen R, Karaliute M, Hjemdal O, Kennair LEO, Solem S, Asarnow RF, Einarsen C, Halvorsen JØ, Paoli S, Saksvik SB, Smevik H, Storvig G, Wells A, **Skandsen** T, Olsen A. Metacognitive Therapy for People Experiencing Persistent Post-Concussion Symptoms Following Mild Traumatic Brain Injury: A Preliminary Multiple Case-Series Study. Neurotrauma Rep. 2024;5(1):890-902
5. Flusund AH, Bø LE, Reinertsen I, Solheim O, **Skandsen** T, Håberg A, Andelic N, Vik A, Moen KG. Lesion Frequency Distribution Maps of Traumatic Axonal Injury on Early Magnetic Resonance Imaging After Moderate and Severe Traumatic Brain Injury and Associations to 12 Months Outcome. J Neurotrauma. 2024 Aug;41(15-16):1901-1913.
6. Moen KG, Flusund AH, Moe HK, Andelic N, **Skandsen** T, Håberg A, Kvistad KA, Olsen Ø, Saksvoll EH, Abel-Grüner S, Anke A, Follestad T, Vik A. The prognostic importance of traumatic axonal injury on early MRI: the Trondheim TAI-MRI grading and quantitative models. Eur Radiol. 2024 Jun 19;.

7. Clarke GJB, Follestad T, **Skandsen T**, Zetterberg H, Vik A, Blennow K, Olsen A, Håberg AK. Chronic immunosuppression across 12 months and high ability of acute and subacute CNS-injury biomarker concentrations to identify individuals with complicated mTBI on acute CT and MRI. *J Neuroinflammation*. 2024 Apr 27;21(1):109.
8. Clarke GJB, **Skandsen T**, Zetterberg H, Follestad T, Einarsen CE, Vik A, Mollnes TE, Pischke SE, Blennow K, Håberg AK. Longitudinal Associations Between Persistent Post-Concussion Symptoms and Blood Biomarkers of Inflammation and CNS-Injury After Mild Traumatic Brain Injury. *J Neurotrauma*. 2024 Apr;41(7-8):862-878
9. Howe EI, Andelic N, Brunborg C, Zeldovich M, Helseth E, Skandsen T, Olsen A, Fure SCR, Theadom A, Rauen K, Madsen BÅ, Jacobs B, van der Naalt J, Tartaglia MC, Einarsen CE, Storvig G, Tronvik E, Tverdal C, von Steinbüchel N, Røe C, Hellstrøm T. Frequency and predictors of headache in the first 12 months after traumatic brain injury: results from CENTER-TBI. *J Headache Pain*. 2024 Mar 25;25(1):44.
10. Pantelatos RI, Stenberg J, Follestad T, Sandrød O, Einarsen CE, Vik A, **Skandsen T**. Improvement in Functional Outcome from 6 to 12 Months After Moderate and Severe Traumatic Brain Injury Is Frequent, But May Not Be Detected With the Glasgow Outcome Scale Extended. *Neurotrauma Rep*. 2024;5(1):139-149.
11. Stenberg J, **Skandsen T**, Moen KG, Vik A, Eikenes L, Håberg AK. Diffusion Tensor and Kurtosis Imaging Findings the First Year following Mild Traumatic Brain Injury. *J Neurotrauma*. 2023 Mar;40(5-6):457-471.
12. Pantelatos RI, Rahim S, Vik A, Rao V, Müller TB, Nilsen TIL, **Skandsen T**. The Epidemiology of Moderate and Severe Traumatic Brain Injury in Central Norway. *Neuroepidemiology*. 2023;57(3):185-196.
13. Rahim S, Laugsand EA, Fyllingen EH, Rao V, Pantelatos RI, Müller TB, Vik A, **Skandsen T**. Moderate and severe traumatic brain injury in general hospitals: a ten-year population-based retrospective cohort study in central Norway. *Scand J Trauma Resusc Emerg Med*. 2022 Dec 9;30(1):68
14. Skjeldal OH, **Skandsen T**, Kinge E, Glott T, Solbakk AK. Long-term post-concussion symptoms. *Tidsskr Nor Laegeforen*. 2022 Sep 6;142(12).
15. Olsen M, Vik A, Lien E, Schirmer-Mikalsen K, Fredriksli, Follestad T, Sandrød O, Finnanger TG, **Skandsen T**. A population-based study of global outcome after moderate-to-severe traumatic brain injury in children and adolescents. *Journal of Neurosurg Peds*. 2022 Jan 21:1-10.
16. Karaliute M, Saksvik SB, Smevik H, Follestad T, Einarsen CE, Vik A, Haberg AK, Iverson GL, **Skandsen T**, Olsen A. Methodology Matters: Comparing Approaches for Defining Persistent Symptoms after Mild Traumatic Brain Injury. *Neurotrauma Rep*. Dec 13;2(1):603-617. eCollection 2021.
17. Fordal L, Stenberg J, Iverson GL, Saksvik SB, Karaliute M, Vik A, Olsen A, **Skandsen T**. Trajectories of Persistent Postconcussion Symptoms and Factors Associated with Symptom Reporting after Mild Traumatic Brain Injury. *Arch Phys Med Rehabil*. 2021 Oct 22: S0003-9993(21)01497-0.
18. Saksvik SB, Smevik H, Stenberg J, Follestad T, Vik A, Håberg A, Asarnow RF, Kallestad H, **Skandsen T**, Olsen A. Poor sleep quality is associated with greater negative consequences for cognitive control function and psychological health after mild traumatic brain injury than after orthopedic injury. *Neuropsychology*. 2021 Aug 12.
19. Karlsen RH, Saksvik SB, Stenberg J, Lundervold AJ, Olsen A, Rautio I, Folvik L, Haberg AK, Vik A, Karr JE, Iverson GL, **Skandsen T**. Examining the Subacute Effects of Mild Traumatic Brain Injury Using a Traditional and Computerized Neuropsychological Test Battery. *J Neurotrauma* 2021; 38:74-85.
20. Clarke GJB, **Skandsen T**, Zetterberg H, Einarsen CE, Feyling C, Follestad T, Vik A, Blennow K, Håberg AK. One-Year Prospective Study of Plasma Biomarkers from CNS in Patients with Mild Traumatic Brain Injury. *Front Neurol*.
21. Stenberg J, Eikenes L, Moen KG, Vik A, Håberg AK, **Skandsen T**. Acute Diffusion Tensor and Kurtosis Imaging and Outcome following Mild Traumatic Brain Injury. *J Neurotrauma*. 2021 Sep 15;38(18):2560-2571.
22. Stenberg J, Karr JE, Terry DP, Saksvik SB, Vik A, **Skandsen T**, Silverberg ND, Iverson GL. Developing Cognition Endpoints for the CENTER-TBI Neuropsychological Test Battery. *Frontiers in neurology* 2020; 11:670.
23. Stenberg J, Karr JE, Terry DP, Haberg AK, Vik A, **Skandsen T**, Iverson GL. Change in self-reported cognitive symptoms after mild traumatic brain injury is associated with changes in emotional and somatic symptoms and not changes in cognitive performance. *Neuropsychology* 2020; 34:560-568.
24. Stenberg J, Karr JE, Karlsen RH, **Skandsen T**, Silverberg ND, Iverson GL. Examining Test-Retest Reliability and Reliable Change for Cognition Endpoints for the CENTER-TBI Neuropsychological Test Battery. *Frontiers in neurology* 2020; 11:541533.
25. Stenberg J, Haberg AK, Follestad T, Olsen A, Iverson GL, Terry DP, Karlsen RH, Saksvik SB, Karaliute M, Ek JAN, **Skandsen T**, Vik A. Cognitive Reserve Moderates Cognitive Outcome After Mild Traumatic Brain Injury. *Arch Phys Med Rehabil* 2020; 101:72-80.
26. **Skandsen T**, Stenberg J, Follestad T, Karaliute M, Saksvik SB, Einarsen CE, Lillehaug H, Haberg AK, Vik A, Olsen A, Iverson GL. Personal Factors Associated With Postconcussion Symptoms 3 Months After Mild Traumatic Brain Injury. *Arch Phys Med Rehabil* 2020.
27. Sigurdardottir S, Andelic N, Wehling E, Anke A, **Skandsen T**, Holthe OO, Manskow US, Roe C. Return to work after severe traumatic brain injury: a national study with a one-year follow-up of neurocognitive and behavioural outcomes. *Neuropsychol Rehabil* 2020; 30:281-297.
28. Saksvik SB, Karaliute M, Kallestad H, Follestad T, Asarnow R, Vik A, Haberg AK, **Skandsen T**, Olsen A. The Prevalence and Stability of Sleep-Wake Disturbance and Fatigue throughout the First Year after Mild Traumatic Brain Injury. *J Neurotrauma* 2020; 37:2528-2541.
29. Moe HK, Follestad T, Andelic N, Haberg AK, Flusund AH, Kvistad KA, Saksvoll EH, Olsen O, Abel-Gruner S, Sandrod O, **Skandsen T**, Vik A, Moen KG. Traumatic axonal injury on clinical MRI: association with the Glasgow Coma Scale score at scene of injury or at admission and prolonged posttraumatic amnesia. *J Neurosurg* 2020:1-12.
30. Karlsen RH, Karr JE, Saksvik SB, Lundervold AJ, Hjemdal O, Olsen A, Iverson GL, **Skandsen T**. Examining 3-month test-retest reliability and reliable change using the Cambridge Neuropsychological Test Automated Battery. *Applied neuropsychology Adult* 2020:1-9.

31. Chaban V, Clarke GJB, **Skandsen T**, Islam R, Einarsen CE, Vik A, Damas JK, Mollnes TE, Haberg AK, Pischke SE. Systemic Inflammation Persists the First Year after Mild Traumatic Brain Injury: Results from the Prospective Trondheim Mild Traumatic Brain Injury Study. *J Neurotrauma* 2020; 37:2120-2130.
32. Bratt M, Moen KG, Nordgard S, Helvik AS, **Skandsen T**. Treatment of posttraumatic olfactory dysfunction with corticosteroids and olfactory training. *Acta Otolaryngol* 2020; 140:761-767.