Curriculum Vitae

Chris Halling Dreyer MD, Ph.D, Postdoc

Contact: +45 20 74 80 81, Mariedalsvej 33, 4700 Næstved
Email: cdreyer@health.sdu.dk
Reg. Sjælland PURE: https://pure-portal.regsj.dk/da/persons/chris-halling-dreyer
Researchgate: https://www.researchgate.net/profile/Chris_Halling_Dreyer
Linkedin: https://www.linkedin.com/in/chrishallingdreyer/
Publeons: https://publons.com/author/1319013/chris-halling-dreyer#profile

Education

- Ph.d. Medicine, University of Southern Denmark (SDU) / Odense University Hospital (OUH). (3-years, 2017-2020)
- Master, Medicine, SDU. (4-years, 2013-2017 – including 1-year pregraduate employment)
- Bachelor, Medicine, SDU. (3-years, 2010-2013)
- Herlufsholm Boarding School. (7-years, 2002–2009)

Employment History

- Doctor, Department of Orthopaedic Surgery & Traumatology, Naestved and Slagelse hospital. (2025 – current
- Doctor, Department of Orthopaedic Surgery & Traumatology, Odense University Hospital, Odense and Svendborg. (November 2023-2025)
- Inspector, Danish Health Authority (June 2022 – current)
- Postdoc, Medicine, University of Southern Denmark (SDU) / Odense University Hospital (OUH). (1st April 2021 - current)
- Doctor, Department of Orthopaedic Surgery & Traumatology, Naestved and Slagelse hospital. (1st April 2021 – 2023
- Doctor, General practitioner, Slagelse, Denmark. (6 months, 2020-2021).
- Doctor, Department of Orthopaedic Surgery & Traumatology, Naestved and Slagelse hospital, (6 months, 2020)
- Consultant Doctor in Orthopaedics. Naestved ER, Gentofte ER, Roskilde ER, Nykøbing ER, Slagelse ER, General practitioner Slagelse. (2020 - current)
- Doctor/Senior Doctor, Department of Acute Medicine, The Orthopaedic ER, Slagelse and Naestved hospital, Region Zealand, Denmark, (7 months, 2019)
- Ph.d. fellow, Department of Orthopaedic Surgery & Traumatology, The Prince of Wales Hospital, The Chinese University of Hong Kong, (11 months, 2018-2019)
- Doctor, Department of Orthopaedic Surgery & Traumatology, Odense University Hospital, Odense and Svendborg. (11 months, 2017-2018)
- Ph.d. student, Department of Orthopaedic Surgery & Traumatology, Odense University Hospital, (3-years, 2017-2020)
- Pregraduate student, Department of Orthopaedic Surgery & Traumatology, Odense University Hospital, (1-year, 2015-2016)
- Syddanske Studerende, The Student Union, (2-years, 2012-2014)

Courses:

- Health care system organization and management (2023-2025)
- Foot and ancle surgery (2024)
- Spine Surgery (2024)
- Children Orthopedics (2024)
- Traumatology basic and advanced (2023+2024)
- Hand Surgery (2023)

- AO basic fracture management (2023)
- Sports medicine and surgery (2023)
- Aesthetic Medicine, treatment with botox and filler (2023)
- Should-elbow treatment (2022)
- Infections in orthopaedics (2022)
- Inspector course (SST, 2022)
- Teaching in the clinic (2022)
- Advanced Trauma Life Support (ATLS) (2021)
- AO trauma online course – Basic principles of fracture management essentials (2021)
- Pharmacology (2021)
- Good practice in the clinic (2021)
- Pharmacology and interactions (2020)
- Antibiotics (2020)
- Pedagogy – supervisor teaching (2020)
- Patient communication (2020)
- Team building around trauma patients (2020)
- Acute patient treatment (2020)
- Hip fracture surgery, Copenhagen Academy for Medical Education and Simulation (2020)
- Microsurgery, ph.d. course (2019)
- HLR/MAT (2019)
- Introduction to STATA, ph.d. course (2018)
- Introduction to Health Research (2018)
- Responsible Conduct of Research (2018)
- Application writing, doctors union (2018)
- Biostatistics 1, ph.d. course (2018)
- Systemic litterature research, ph.d. course (2017)
- Laboratory Animal Science EU function B (2017) (Danish Animal License holder)
- Emergency x-rays, YODA (2017)
- Mouse surgery, ph.d. course (2017)
- Systematic critical literature review, ph.d. course (2017)
- How to write an abstract, ph.d. course (2017)
- Suturing, Emergency room, YODA (2017)
- Article writing course, SSF (2015)
- How to write an article, ph.d. course (2015)
- Laboratory animal course, ph.d. course (2015)
- Research course, YODA (2014)
- Emergency course, YODA (2014)
- Basic plastic surgery, SATS (2013)
- Soft tissue treatment (2013)
- Musculoskeletal diagnostic (2013)
- Cervical, Thoracic, Lumbar and Pelvic manipulation (2012)
- Orthopeadic and neurologic examination (2012)

Supervisor:

- Supervisor: Kamilla Jægerum Sørensen MD: Diluted povidone-iodine (betadine) injection after aspiration of pus in a non-prosthetic joint - a systematic review (2024-2025)
- Co-supervisor: Predraduate, medical student, Anna Strømsted Berg, A critical size bone defect sheep model for fracture nonunion healing (2024-2025)
- Co-supervisor, Pregraduate, medical student, Tobias Nicki Nielsen, Quantification of angiogenesis in bone regeneration of normal and osteoporotic sheep (2023-2025)
- Co-supervisor: Mads Riishede, MD: The use of allogenic stem cells in nonunion fractures. Planning of possible PhD protocol (2023-2024)
- Co-supervisor: Laureen Marsault, MD, PhD candidate: Methodological Review of Visualization of angiogenesis around titanium implants in large animal models (2024).
- Main supervisor: Candidate Thesis Medicine – Rasmus Borring Krakau and Nicolai Dahl Hamilton (2024)
- Co-supervisor, Pregraduate, medical student, Emma-Emilie Knudsen: Short-, medium- and long-term efficacies of novel biomaterials on bone regeneration and implant fixation in sheep (2018-2019)

Teaching:

- Online Research Course, YODA (2021)
- +600 hours of teaching at university level on the following
    - Musculoskeletal examination, candidate medicine, teacher (2017-2018)

- Communication, BSc medicine, teacher (2017-2018)
- Communication, candidate medicine, teacher (2017-2018)
- Orthopaedics Procedures, candidate medicine, teacher (2017-2018)
- Functional anatomy, BSc welfare technology students, teacher (2017)

Reviewer:

- https://publons.com/author/1319013/chris-halling-dreyer#profile
- Reviewer for The Research Council in Næstved-Slagelse-Ringsted (NSR) research council (2023 – current)
- Organizer, Poster session, Danish Orthopaedic Society (2021)
- Reviewer for The Research Council at Odense University hospital (in 2018 and 2019)
- Reviewer for the journals: Journal of Orthopaedic translation, Journal of Clinical Medicine, Journal of Tissue Engineering and Regenerative Medicine, Materials (2018-2022)
- Guest Editor: Frontiers in Sports and Active Living (2024)

Patents:

- Dreyer, C. & Ding, M., 23. apr. 2020, IPC nr. A61L 31/ 16 A I, Patent. WO2020078949, 15. okt. 2019, Prioritetsdato 18. okt. 2018. EP20180201249

Voluntary work:

- Event doctor at Slagelse Boxing Club (2020 - 2022)

Publications:

1. (Submitted) M. Riishede, SS Folkvardsen, BL Viberg, S. Kold, M. Ding, SG Saekmose, **CH Dreyer**
   The sole use of stem cells in treating fracture nonunion – A scoping review. Archives of Orthopaedic and Trauma Surgery. 2025
2. (Submitted) RB Krakau*, ND Hamilton*, AS Dastrup, K. Klein, **CH Dreyer**
   Antibiotic Prophylaxis for Preventing Open Fracture Related Infections – a scoping review. European Journal of Orthopaedic Surgery & Traumatology. 2025
3. (Submitted) J Jørgensen; JB. Olsson-Svendsen; SB. Jessen; T.V.F. Hviid; **CH. Dreyer**; M. Lindberg-Larsen; SG. Sækmose; OB. V. Pedersen, JT. Troelsen
   HLA-F in Bone Marrow-Derived Mesenchymal Stem Cells Alters the Cytokine Expression Profile. Stem Cell Research & Therapy. (2024)
4. E. Knudsen, **CH. Dreyer**, S Overgaard, Y. Zhang, M. Ding
   Long-term natural hydroxyapatite and synthetic collagen-hydroxyapatite show the same bone regeneration potential as allograft in sheep. Calcified Tissue International. CTIN-D-24-00672R1. 2024
5. H. Zu, L. Zheng, M. Huo, K. Liu, **CH Dreyer**, Y. Zhang, X. He, Y. Li, L. Zou, L. Huang, X. Yi, AR. Sun, X. Meng, K. Shi, H. Cao, X. Zu, W. Tong, DH Chow, X. Wang, Y. Lai, J. Xu, M. Ding, J. Lu, L. Qin
   Tree-inspired magnesium hybrid column for preventing hip collapse in steroid-associated osteonecrosis in bipedal emus. Materials today. 2024
   https://doi.org/10.1016/j.mattod.2024.08.009
6. F. Bang, V. Leeberg, M Ding, **CH. Dreyer**
   The effect of VEGF stimulation in diabetic foot ulcers: A systematic review. Wound Rep Reg. 2024;1-9. doi:10. 1111/wrr.13171
7. L. Began, **CH. Dreyer**, L Jensen, H Jensen, T Andersen, S. Overgaard, M. Ding
   Are sheep potentially useful preclinical models for bone infection research – a systematic review. Journal of Orthopaedic Translation. 2024

8. Gierahn SN, Lindberg-Larsen M, Ding M. **Dreyer CH:**
Hvad er status for evidensen på brugen af stamceller i Ortopædkirurgien. Danish Medical Journal, Ugeskrift for læger
9. **Dreyer CH**, Jørgensen NR, Overgaard S, Qin L. Vascular Endothelial Growth Factor and Mesenchymal Stem Cells Revealed Similar Bone Formation to Allograft in a Sheep Model. 2021;2021.
10. Zu H, Chau K, Olugbade TO, Pan L, **Dreyer CH**, Chow DH-K, et al.
Comparison of modified injection molding and conventional machining in biodegradable behavior of perforated cannulated magnesium hip stents. J Mater Sci Technol. 2021;63:145–60.
11. **Dreyer CH**, Kjaergaard K, Ding M, Qin L.
The use of vascular endothelial growth factor for in vivo bone formation: A systematic review. J Orthop Transl. 2020;
12. **Dreyer CH**, Rasmussen M, Pedersen RH, Overgaard S, Ding M.
Comparisons of Efficacy between Autograft and Allograft on Defect Repair In Vivo in Normal and Osteoporotic Rats. Biomed Res Int. 2020;2020:9358989.
13. **Dreyer CH**, Kjaergaard K, Ditzel N, Jørgensen NR, Overgaard S, Ding M.
Optimizing combination of vascular endothelial growth factor and mesenchymal stem cells on ectopic bone formation in SCID mice. J Biomed Mater Res Part A. 2017;105(12):3326–32.
14. Kjærgaard K, **Dreyer CH**, Ditzel N, Andreasen CM, Chen L, Sheikh SP.
Bone Formation by Sheep Stem Cells in an Ectopic Mouse Model: Comparison of Adipose and Bone Marrow Derived Cells and Identification of Donor-Derived Bone by Antibody Staining. Stem Cells Int. 2016;2016:1–10.