

Copenhagen University Hospital - Rigshospitalet
Center for Rheumatology and Spine Diseases

REGION

Report 2023

Copenhagen Center for Arthritis Research



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This report was compiled by

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- in collaboration with the COPECARE team

The report is also available on www.copecare.dk

Københavns Center for Artritforskning



COPECARE

Copenhagen Center for Arthritis Research

COPECARE: the Copenhagen arthritis research unit

Copenhagen Center for Arthritis Research (COPECARE) is a research unit within Center for Rheumatology and Spine Disease at Copenhagen University Hospital – Rigshospitalet, Denmark. Our work and ambition are centered around improving diagnostics, treatment, and quality of life for people with a rheumatic disease. Our research unit consists of highly skilled people within medical science, nursing, occupational therapy, physiotherapy, data management, statistics etc., each contributing to our establishment and success as an internationally renowned research unit.

Formally, COPECARE has existed for approximately 10 years, and we have had the pleasure to supervise many young, talented researchers. We have grown significantly in number and continue to grow – as does our network, the scale of our studies and the list of ideas for future projects and initiatives.

We share our knowledge through scientific publications, at congresses, through contact to the media and at different courses and events, which we regularly organize for both national and international healthcare professionals.

The multiple challenges related to rheumatic diseases are reflected in the numerous types of studies carried out at COPECARE. Most of our studies are investigator-initiated studies covering epidemiological, methodological and clinical studies in which radiography, US, MRI, soluble biomarkers, clinical quality data and patient-reported outcomes are frequently incorporated. In several studies, the impact of treatment strategies and lifestyle changes are investigated, and several studies are carried out in collaboration with patients as patient research partners, contributing with unique and highly relevant insight, giving rise to new ideas and reflections and keeping us on our toes.



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1) Queen Ingrid's Research Prize: Bente Glintborg, HM Queen Margrethe, Mette Bryde Lind, Andreas Petersen, Lene Dreyer. 2 & 3: Bente Glintborg, HM Queen Margrethe, 4) PhD defence: Andreas Petersen, Thomas Benfield, Bente Glintborg, James Galloway, Sabine Sparre Dieperink, Søren Jacobsen, Loreta Carmona, Merete Lund Hetland, 5) Best Clinical Research award: Bente Appel Esbensen
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6) Retirement reception for research nurse, Lise: Mikkell Østergaard, Lise Hejl Hyldstrup, Merete Lund Hetland, 8) Mikkell Østergaard, Bimal Vora, 9) Podcast production: Merete Hetland a.o., 7 & 10) Lene Terslev and Paul J Healy

Year 2023 in brief

2023 was an eventful year, and we are happy to present our annual report, providing information about staff, publications, funding etc.

In 2023, COPECARE launched its LinkedIn profile ([linkedin.com/company/copecare/](https://www.linkedin.com/company/copecare/)), enabling us to share important and exciting news with more people, and without much delay.

The very successful PhD defence by MD Sabine Sparre Dieperink was among our first LinkedIn posts and a key event in 2023. Sabine's work was centered around *"Staphylococcus aureus bacteremia in Danish patients with rheumatoid arthritis: Risk and outcome"*, and clearly demonstrated her excellent research qualifications and dedication, which was formally acknowledged with the PhD title.

In addition to Sabine's project, COPECARE had 7 other active PhD projects, and 6 in pipeline.

Besides conducting research, COPECARE is frequently engaged in various types of educational activities, i.e., providing training to other physicians and researchers, nationally and internationally. On four such occasions in 2023, we had the pleasure of visitors from abroad:

- Radiologist, Bimal Vora from Singapore General Hospital (training in imaging, mainly MRI)
- Rheumatologist, Paul J Healy, Wellington Regional Rheumatology Unit, Hutt Hospital (ultrasound training)
- Rheumatologist, Rashmi Rungta, AMRI Hospitals, Institute of Postgraduate Education and Research (ultrasound training)
- a 2-days Novartis-sponsored preceptorship focusing on Spondyloarthritis and Psoriatic

Arthritis (disease management, the role of MRI and ultrasound etc.).

We also had the pleasure of greeting Eugenia Chock. Eugenia is an Assistant Professor of Medicine at Yale School of Medicine and investigates offspring outcomes amongst parents with rheumatic diseases.

Among other events of the year, the awarding of two prestigious prizes to COPECARE colleagues rank very high. The prize for *"Denmark's best clinical research – the patient focus category"* was presented to Professor Bente Appel Esbensen/the TASEMA project. Including patients in all aspects of her research has been an important focus for Bente, and winning the prize constitutes a huge acknowledgement of the effort made to achieve this co-involvement.

Later this year, senior researcher Bente Glintborg received the Queen Ingrid's Research Prize from the Danish Rheumatism Association. The prize emphasizes her outstanding dedication and involvement in the Danish rheumatological database (DANBIO), and the Danish rheumatology biobank (DRB).

More good news arrived when Merete Lund Hetland and Bente Appel Esbensen were granted prolongation of their professorships. They have both supervised numerous PhD students and are very skilled and respected researchers and mentors. We are thrilled that their professorships continue in the years to come.

Another memorable event relates to Professor Lene Terslev, who spent 2 months in New Zealand, gaining valuable insight to differences and similarities in our approach to disease diagnostics, monitoring and management.

YEAR 2023 IF BRIEF

Thank you to professor Nicola Dalbeth, Auckland, and professor Simon Stebbings, Dunedin, for their hospitality and for enabling this interesting stay.

Additional examples of COPECARE 2023 activities include a wealth of publications, congress attendances and -presentations, guest starring participation in a rheumatology podcast, and the initiative to produce plain language video abstracts for selected publications within the EuroSpA collaboration.

All in all, we are very proud of our results and achievements made in 2023, which were possible because of outstanding collaborations,

important support (funding and otherwise) and great colleagues.

Thank you to everyone!

Sincerely, Mikkel



Mikkel Østergaard
Professor

Organization

COPECARE is a research unit within Center for Rheumatology and Spine Diseases, Copenhagen University Hospital – Rigshospitalet. Our team consists of specialists within different professions such as medicine, nursing, physiotherapy, occupational therapy, data management and statistics.

Management group

Mikkel Østergaard, Head of COPECARE, Professor, consultant, MD, PhD, DMSc
Bente Appel Esbensen, Professor, senior researcher, RN, MScIN, PhD
Lene Terslev, Professor, consultant, MD, PhD
Merete Lund Hetland, Professor, consultant, MD, PhD, DMSc
Ole Rintek Madsen, Senior lecturer, consultant, MD, PhD, DMSc
Pernille Hurup Duhn, senior registrar, MD

Professors

Mikkel Østergaard, Head of COPECARE, Professor, consultant, MD, PhD, DMSc
Bente Appel Esbensen, Professor, senior researcher, RN, MScIN, PhD
Lene Terslev, Professor, consultant, MD, PhD
Merete Lund Hetland, Professor, consultant, MD, PhD, DMSc

Postdoctoral researchers and senior researchers

Bente Glintborg, Postdoctoral researcher, consultant, MD, PhD, DMSc
Lykke Midtbøll Ørnbjerg, Postdoctoral researcher, MD, PhD
Mads Ammitzbøll-Danielsen, PhD, MD
Ole Rintek Madsen, Senior lecturer, consultant, MD, DMSc
Signe Kaas Møller-Bisgaard, Postdoctoral researcher, MD, PhD
Simon Krabbe, Postdoctoral researcher, MD, PhD
Susanne Juhl Pedersen, Postdoctoral researcher, MD, PhD
Tanja Thomsen, Postdoctoral researcher, OT, MScIH, PhD

PhD-students and other research fellows

Anna Enevold Fløistrup Hadsbjerg, PhD student, MD
Anne Emilie Secher, Research assistant, MD
Charlotte Werdal Hansen, PhD student, RN, MScIN
Hafsah Nabi, PhD student, MD
Laura Santini, Research assistant, MD
Louise Majormoen Nielung, PhD student, MD
Luise Holberg Lindgren, PhD student, RN, MScIN

ORGANIZATION

Nora Vladimirova, PhD student, MD
Pernille Hurup Duhn, PhD student, MD
Signe Marie Abild, Research assistant, MScHS, PT
Simone Amanda Tromborg Willesen, Research assistant, MD
Stine Maya Dreier Carstensen, PhD student, MD
Tanja Fromberg Gorlen, PhD student, MD
Zohra Faizy Ahmadzay, PhD student, MD

Project nurses

Anne Mette Leth Nielsen, Project nurse
Bettina Kildemoes, Project nurse
Bonnie Britt Myhre, Project nurse
Charlotta Arpi, Project nurse
Lise Hejl Hyldstrup, Project nurse

Data team

Alexander K. B. Andersen, Data analyst
Helena V. G. Elmo, Student assistant
Jacob Brauner Jørgensen, Statistician
Jeppe Aabye, Student assistant
Jette Heeberg, Project manager
Kristian Falk Vindberg, Student assistant
Marion Claire Aliette Senlis, Project manager
Mehrdad Shoaee Kazemi, Data manager
Nikolin Prenga, Data manager
Simon Horskjær Rasmussen, Data manager
Stylianos Georgiadis, Statistician

Academic administrative team

Anne Mette Terp Raun, Academic administrative officer
Anne Øraker Mikkelsen, Project coordinator
Christian Gøtze Hoeg, Academic administrative officer
Nina Schmidt, Academic administrative officer

Secretaries

Aisha Saroya, Professor secretary
Maj-Brit Thyme Havlit, Medical secretary

Associated specialists

Anne Marie Lyng Svensson, Consultant, PhD, MD
Anne Rødgaard, Consultant, MD
Ashish Jacob Matthew, PhD student, MD
Bente Jensen, Consultant, PhD, MD
Charlotte Wiell, Consultant, PhD, MD
Dorte Vendelbo Jensen, Consultant, MD, Head of DANBIO secretariat
Henning Locht, Consultant, DMSc, MD
Henrik Skjødt, Consultant, PhD, MD
Klaus Westenbæk, Academic administrative officer, DANBIO
Mette Axelsen, Consultant, PhD, MD
Sengül Seven, Rheumatologist, PhD, MD
Torsten Møller, Consultant, MD
Uffe Møller, Consultant, PhD, MD
Viktoria Fana, Consultant, MD



COPECARE professor group: Merete Lund Hetland, Bente Appel Esbensen, Mikkel Østergaard and Lene Terslev

Publications

In 2023, COPECARE authored 53 original papers, 80 conference abstracts and a number of other publications:

PhD dissertation

1. **Staphylococcus aureus bacteremia in Danish patients with rheumatoid arthritis: Risk and outcome - Epidemiological studies based on data from DANBIO and other national registries**
Dieperink, S. S. 2023, Københavns Universitet.

Original papers

1. **Which are the most frequently involved peripheral joints in calcium pyrophosphate crystal deposition at imaging? A systematic literature review and meta-analysis by the OMERACT ultrasound - CPPD subgroup**
Adinolfi, A., Sirotti, S., Sakellariou, G., Cipolletta, E., Filippucci, E., Porta, F., Zanetti, A., Ughi, N., Sarzi-Puttini, P., Scirè, C. A., Keen, H., Pineda, C., Terslev, L., D'Agostino, M. A. & Filippou, G. 2023, *Frontiers in Medicine*. 10, 1131362.
2. **Consensus statement on blocking interleukin-6 receptor and interleukin-6 in inflammatory conditions: an update**
Aletaha, D., Kerschbaumer, A., Kastrati, K., Dejaco, C., Dougados, M., McInnes, I. B., Sattar, N., Stamm, T. A., Takeuchi, T., Trauner, M., van der Heijde, D., Voshaar, M., Winthrop, K. L., Ravelli, A., Betteridge, N., Burmester, G.-R. R., Bijlsma, J. W., Bykerk, V., Caporali, R., Choy, E. H., Codreanu, C., Combe, B., Crow, M. K., de Wit, M., Emery, P., Fleischmann, R. M., Gabay, C., Hetland, M. L., Hyrich, K. L., Iagnocco, A., Isaacs, J. D., Kremer, J. M., Mariette, X., Merkel, P. A., Mysler, E. F., Nash, P., Nurmohamed, M. T., Pavelka, K., Poor, G., Rubbert-Roth, A., Schulze-Koops, H., Strangfeld, A., Tanaka, Y. & Smolen, J. S. 2023, *Annals of the Rheumatic Diseases*. 82, 6, p. 773-787.
3. **Multimodality imaging in cranial giant cell arteritis: first experience with high-resolution T1-weighted 3D black blood without contrast enhancement magnetic resonance imaging**
Brittain, J. M., Hansen, M. S., Carlsen, J. F., Brandt, A. H., Terslev, L., Jensen, M. R., Lindberg, U., Larsson, H. B. W., Heegaard, S., Døhn, U. M., Klefter, O. N., Wiencke, A. K., Subhi, Y., Hamann, S. & Haddock, B. 2023, *Diagnostics*. 14, 1, 81

4. **Self-report and device-based physical activity measures and adherence to physical activity recommendations: a cross-sectional survey among people with inflammatory joint disease in four European countries**
Brodin, N., Conradsson, D. M., Swinnen, T. W., Esbensen, B. A., Kennedy, N., Hammer, N. M., McKenna, S., Henriksson, P. & Nordgren, B.
2023, *BMJ Open*. 13, 2, e064278.
5. **Physical function and severe side effects matter most to patients with RA (< 5 years): a discrete choice experiment assessing preferences for personalized RA treatment**
Bywall, K. S., Esbensen, B. A., Heidenvall, M., Erlandsson, I., Lason, M., Hansson, M. & Johansson, J. V.
2023, *BMC Rheumatology*. 7, 1, 10.
6. **E-learning and practical performance in musculoskeletal ultrasound: a multicentre randomized study**
Carstensen, S. M. D., Just, S. A., Velandar, M., Konge, L., Hubel, M. S., Rajeeth Savarimuthu, T., Pfeiffer Jensen, M., Østergaard, M. & Terslev, L.
2023, *Rheumatology (Oxford, England)*. 62, 11, p. 3547-3554.
7. **Evaluation of BMS-986142, a reversible Bruton's tyrosine kinase inhibitor, for the treatment of rheumatoid arthritis: a phase 2, randomised, double-blind, dose-ranging, placebo-controlled, adaptive design study**
Conaghan, P. G., Nowak, M., Du, S., Luo, Y., Landis, J., Pachai, C., Fura, A., Catlett, I. M., Grasela, D. M. & Østergaard, M.
2023, *The Lancet Rheumatology*. 5, 5, p. e263-e273
8. **Self-management support needs of patients with inflammatory arthritis and the content of self-management interventions: a scoping review**
Damgaard, A. J., Primdahl, J., Esbensen, B. A., Latocha, K. M. & Bremander, A.
2023, *Seminars in Arthritis and Rheumatism*. 60, p. 1-17, 152203.
9. **The provisional OMERACT ultrasonography score for giant cell arteritis**
Dejaco, C., Ponte, C., Monti, S., Rozza, D., Scirè, C. A., Terslev, L., Bruyn, G. A. W., Boumans, D., Hartung, W., Hočvar, A., Milchert, M., Døhn, U. M., Mukhtyar, C. B., Aschwanden, M., Bosch, P., Camellino, D., Chrysidis, S., Ciancio, G., D'Agostino, M. A., Daikeler, T., Dasgupta, B., De Miguel, E., Diamantopoulos, A. P., Duftner, C., Agueda, A., Fredberg, U., Hanova, P., Hansen, I. T., Hauge, E.-M., Iagnocco, A., Inanc, N., Juche, A., Karalilova, R., Kawamoto, T., Keller, K. K., Keen, H. I., Kermani, T. A., Kohler, M. J., Koster, M., Luqmani, R. A., Macchioni, P., Mackie, S. L., Naredo, E., Nielsen, B. D., Ogasawara, M., Pineda, C., Schäfer, V. S., Seitz, L., Tomelleri, A., Torralba, K. D., van der Geest, K. S. M., Warrington, K. J. & Schmidt, W. A.
2023, *Annals of the Rheumatic Diseases*. 82, 4, p. 556-564.
10. **Risk of Staphylococcus aureus bacteraemia in patients with rheumatoid arthritis and the effect of orthopaedic implants on the risk: a nationwide observational cohort study**
Dieperink, S. S., Glinthorg, B., Østergaard, L. B., Nørgaard, M., Benfield, T., Mehnert, F., Petersen, A., Torp-Pedersen, C. & Hetland, M. L.
2023, *Scandinavian Journal of Rheumatology*. 52, 3, p. 250-258.

11. **Safety outcomes in patients with rheumatoid arthritis treated with abatacept: results from a multinational surveillance study across seven European registries**
 Dominique, A., Hetland, M. L., Finckh, A., Gottenberg, J.-E., Iannone, F., Caporali, R., Kou, T. D., Nordstrom, D., Hernandez, M. V., Sánchez-Piedra, C., Sánchez-Alonso, F., Pavelka, K., Bond, T. C. & Simon, T. A.
 2023, Arthritis Research & Therapy. 25, 1, 101.
12. **Colchicine twice a day for hand osteoarthritis (COLOR): a double-blind, randomised, placebo-controlled trial**
 Døssing, A., Henriksen, M., Ellegaard, K., Nielsen, S. M., Stamp, L. K., Müller, F. C., Kloppenburg, M., Haugen, I. K., McCarthy, G. M., Conaghan, P. G., Ulf-Møller Dahl, L., Terslev, L., Altman, R. D., Becce, F., Ginnerup-Nielsen, E., Jensen, L., Boesen, M., Christensen, R., Dal, U. & Bliddal, H.
 2023, The Lancet Rheumatology. 5, 5, p. e254-e262
13. **Lacrimal and salivary gland ultrasound - how and when to use in patients with primary Sjögren's syndrome**
 Fana, V. & Terslev, L.
 2023, Best Practice and Research in Clinical Rheumatology. 37, 1, 101837.
14. **Is the risk of infection higher during treatment with secukinumab than with TNF-inhibitors? An observational study from the Nordic countries**
 Glintborg, B., Di Giuseppe, D., Wallman, J. K., Provan, S. A., Nordström, D., Hokkanen, A.-M., Österlund, J., Kristianslund, E., Kvien, T. K., Gudbjornsson, B., Hetland, M. L., Michelsen, B., Jacobsson, L., Askling, J. & Lindström, U.
 2023, Rheumatology (Oxford, England). 62, 2, p. 647-658.
15. **Uptake and effectiveness of newer biologic and targeted synthetic disease-modifying antirheumatic drugs in psoriatic arthritis: results from five Nordic biologics registries**
 Glintborg, B., Di Giuseppe, D., Wallman, J. K., Nordström, D. C., Gudbjornsson, B., Hetland, M. L., Askling, J., Grondal, G., Sokka, T., Provan, S. A., Michelsen, B., Kristianslund, E. K., Dreyer, L., Love, T. J. & Lindström, U.
 2023, Annals of the Rheumatic Diseases. 82, 6, p. 820-828.
16. **Comparison of temporal artery ultrasound versus biopsy in the diagnosis of giant cell arteritis**
 Hansen, M. S., Terslev, L., Jensen, M. R., Brittain, J. M., Døhn, U. M., Faber, C., Heegaard, S., Klefter, O. N., Kønig, E. B., Subhi, Y., Wiencke, A. K. & Hamann, S.
 2023, Eye. 37, 2, p. 344-349.
17. **Is erythrocyte sedimentation rate necessary for the initial diagnosis of giant cell arteritis?**
 Hansen, M. S., Klefter, O. N., Terslev, L., Jensen, M. R., Brittain, J. M., Døhn, U. M., Faber, C., Heegaard, S., Wiencke, A. K., Subhi, Y. & Hamann, S.
 2023, Life (Basel, Switzerland). 13, 3, 693.

18. Sex differences in the effectiveness of first-line tumor necrosis factor inhibitors in axial spondyloarthritis; results from fifteen countries in the European spondyloarthritis (EuroSpA) research collaboration network

Hellamand, P., Van de Sande, M. G. H., Ørnbjerg, L. M., Klausch, T., Nurmohamed, M., Van Vollenhoven, R., Nordström, D. C., Hokkanen, A.-M., Santos, M., Vieira-Sousa, E., Loft, A. G., Glinborg, B., Hetland, M. L., Lindström, U., Wallman, J. K., Michelsen, M., Ciurea, A., Nissen, M. J., Codreanu, C., Moogosan, C., Macfarlane, G. J., Jones, G. T., Laas, K., Roter, Z., Tomsic, M., Castrejon, I., Pombo-Suarez, M., Gudbjörnsson, B., Geirsson, A. J., Kristianslund, E. K., Vencovský, J., Nekvindova, L., Zengin, B., Guller, S., Østergaard, M. & Van der Horst- Bruinsma, I.

2023, RMD Open. 9(4): e003325

19. Sex differences in the effectiveness of first-line tumor necrosis factor inhibitors in axial spondyloarthritis; results from fifteen countries in the European spondyloarthritis (EuroSpA) research collaboration network

Hellamand, P., Van de Sande, M. G. H., Ørnbjerg, L. M., Klausch, T., Nurmohamed, M., Van Vollenhoven, R., Nordström, D. C., Hokkanen, A.-M., Santos, M., Vieira-Sousa, E., Loft, A. G., Glinborg, B., Hetland, M. L., Lindström, U., Wallman, J. K., Michelsen, M., Ciurea, A., Nissen, M. J., Codreanu, C., Moogosan, C., Macfarlane, G. J., Jones, G. T., Laas, K., Roter, Z., Tomsic, M., Castrejon, I., Pombo-Suarez, M., Gudbjörnsson, B., Geirsson, A. J., Kristianslund, E. K., Vencovský, J., Nekvindova, L., Zengin, B., Guller, S., Østergaard, M. & Van der Horst- Bruinsma, I.

2023, RMD Open. 9(4): e003325

20. Performance of an MRI scoring system for inflammation of joints and entheses in peripheral SpA: post-hoc analysis of the CRESPA trial

Krabbe, S., Renson, T., Jans, L., Elewaut, D., Van den Bosch, F., Carron, P. & Østergaard, M. 2023, Rheumatology (Oxford, England). 62, 6, p. 2130-2138.

21. Ultrasound-guided transcutaneous injection in the lacrimal gland: a description of sonoanatomy and technique

Larsen, A.-C., Møller-Hansen, M., Wiencke, A. K., Terslev, L., Torp-Pedersen, S. & Heegaard, S. 2023, Journal of ocular pharmacology and therapeutics : the official journal of the Association for Ocular Pharmacology and Therapeutics. 39, 4, p. 275-278.

22. Experiences of group-based cognitive behavioural therapy for insomnia among patients with rheumatoid arthritis: a qualitative study

Latocha, K. M., Løppenthin, K., Jennum, P., Christensen, R., Østergaard, M. & Esbensen, B. A. 2023, BMJ Open. 13, 1, e066221.

23. The effect of group-based cognitive behavioural therapy for insomnia in patients with rheumatoid arthritis: a randomized controlled trial

Latocha, K. M., Løppenthin, K. B., Østergaard, M., Jennum, P. J., Hetland, M. L., Røgind, H., Lundbak, T., Midtgaard, J., Christensen, R. & Esbensen, B. A. 2023, Rheumatology (Oxford, England). 62, 3, p. 1097-1107.

24. A review of major Danish biobanks: advantages and possibilities of health research in Denmark

Laugesen, K., Mengel-From, J., Christensen, K., Olsen, J., Hougaard, D. M., Boding, L., Olsen, A., Erikstrup, C., Hetland, M. L., Høgdall, E., Kjaergaard, A. D., Sørensen, E., Brüggmann, A., Petersen, E. R. B., Brandslund, I., Nordestgaard, B. G., Jensen, G. B., Skajaa, N., Troelsen, F. S., Fuglsang, C. H., Svingel, L. S. & Sørensen, H. T.
2023, Clinical Epidemiology. 15, p. 213-239

25. Commonalities and differences in set-up and data collection across European spondyloarthritis registries - results from the EuroSpA collaboration

Linde, L., Ørnbjerg, L. M., Rasmussen, S. H., Love, T. J., Loft, A. G., Závada, J., Vencovský, J., Laas, K., Nordstrom, D., Sokka-Isler, T., Gudbjornsson, B., Gröndal, G., Iannone, F., Ramonda, R., Hellamand, P., Kristianslund, E. K., Kvien, T. K., Rodrigues, A. M., Santos, M. J., Codreanu, C., Rotar, Z., Tomšič, M., Castrejon, I., Díaz-González, F., Di Giuseppe, D., Ljung, L., Nissen, M. J., Ciurea, A., Macfarlane, G. J., Heddle, M., Grintborg, B., Østergaard, M. & Hetland, M. L.
2023, Arthritis Research & Therapy. 25, 1, 205.

26. Newly diagnosed with inflammatory arthritis (NISMA)-development of a complex self-management intervention

Lindgren, L. H., Thomsen, T., de Thurah, A., Aadahl, M., Hetland, M. L., Kristensen, S. D. & Esbensen, B. A.
2023, BMC Health Services Research. 23, 1, 123.

27. Plasma levels of multiple cardiovascular- and inflammation-related proteins analysed for associations with disease activity and anti-cyclic citrullinated peptide status in active early rheumatoid arthritis

Mašić, D., Stengaard-Pedersen, K., Bridal Løgstrup, B., Hørslev-Petersen, K., Hetland, M. L., Junker, P., Østergaard, M., Nielsen, C. H., Kruhøffer, M., Bøgebjerg, M. E., Röttger, R., Christensen, R. & Ellingsen, T.
2023, Clinical and Experimental Rheumatology. 41, 9, p. 1801-1807.

28. 'I learnt so much about being active': experiences of people with rheumatoid arthritis on the impact of a physiotherapist-led intervention to encourage physical activity

McKenna, S., Larkin, L., Pyne, T., Gallagher, S., Glynn, L., Fraser, A., Esbensen, B. & Kennedy, N.
2023, Rural and Remote Health. 23, 1, p. 8104

29. Differences and similarities between the EULAR/ASAS-EULAR and national recommendations for treatment of patients with psoriatic arthritis and axial spondyloarthritis across Europe

Michelsen, B., Østergaard, M., Nissen, M. J., Ciurea, A., Möller, B., Ørnbjerg, L. M., Závada, J., Grintborg, B., MacDonald, A., Laas, K., Nordström, D., Gudbjornsson, B., Iannone, F., Hellmand, P., Kvien, T. K., Rodrigues, A. M., Codreanu, C., Rotar, Z., Castrejón Fernández, I., Wallman, J. K., Vencovsky, J., Loft, A. G., Heddle, M., Vorobjov, S., Hokkanen, A.-M., Gröndal, G., Sebastiani, M., van de Sande, M., Kristianslund, E. K., Santos, M. J., Mogosan, C., Tomsic, M., Díaz-González, F., Di Giuseppe, D. & Hetland, M. L.
2023, The Lancet regional health. Europe. 33, 100706.

30. **Ultrasound assessment of degenerative muscle sarcopenia: the University of Barcelona ultrasound scoring system for sarcopenia**
Möller Parera, I., Miguel, M., Blasi, J., Piccaso, R., Hammer, H. B., Ortiz-Sagrasta, J., Zaottini, F., Martinoli, C. & Terslev, L.
2023, RMD Open. 9, 1, e002779.
31. **Increased galectin-9 levels correlate with disease activity in patients with DMARD-naïve rheumatoid arthritis and modulate the secretion of MCP-1 and IL-6 from synovial fibroblasts**
Nielsen, M. A., Køster, D., Mehta, A. Y., Stengaard-Pedersen, K., Busson, P., Junker, P., Hørslev-Petersen, K., Hetland, M. L., Østergaard, M., Hvid, M., Leffler, H., Kragstrup, T. W., Cummings, R. D. & Deleuran, B.
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32. **Increased synovial galectin-3 induce inflammatory fibroblast activation and osteoclastogenesis in patients with rheumatoid arthritis**
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4. Taconate – a glucose metabolite with anti-inflammatory properties in rheumatoid arthritis

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5. **Effect of secukinumab versus adalimumab biosimilar on radiographic progression in patients with radiographic axial spondyloarthritis: a randomized phase iiib study**
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6. **Participants' view on the feasibility of INSELMA - a new interdisciplinary nurse-coordinated self-management intervention to people with inflammatory arthritis and substantial disease impact - a qualitative evaluation**
Blum, N. S., Esbensen, B. A., Østergaard, M., Bremander, A., Hendricks, O., Andersen, L., Jensen, K. V. & Primdahl, J., 2023, *Scandinavian Journal of Rheumatology*, vol 52, Suppl 131, p. 87
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8. **A new tool assessing trainees' interventional musculoskeletal ultrasound skills**
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10. **Solid validity evidence for two tools assessing competences in musculoskeletal ultrasound: a validity study**
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11. **Does radiographic status impact secukinumab effectiveness in European axial spondyloarthritis patients treated in routine care?**
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13. Risk of osteoarticular infection and death following staphylococcus aureus bacteremia in patients with and without rheumatoid arthritis – a Danish nationwide registry-based cohort study.

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14. Targeting net formation in early RA patients; a spin-off study from the NORD-STAR

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16. Colchicine twice daily for hand osteoarthritis: results from the double-blind, randomised, placebo-controlled color trial

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20. BASDAI cut-offs for disease activity corresponding to ASDAS-ESR cut-offs in axial spondylarthritis – results from the EuroSpA collaboration

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21. BASDAI cut-offs for disease activity corresponding to ASDAS-ESR cut-offs in axial spondylarthritis – results from the EuroSpA collaboration

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22. Comparing predictors of DAPSA28, DAPSA66/68 and DAS28-CRP remission at 6 months in bio-naïve patients with psoriatic arthritis initiating a TNFi in clinical practice – Results from the EuroSpA collaboration

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Goodbye 2023, welcome 2024

2023 has been an exciting and busy year in COPECARE, and we look forward to the continuation of great collaborations, project activities and upcoming events withing rheumatology research.

For more news about us and our research, check out our company page on www.linkedin.com/company/copecare