

Charlotte Arneboe Suetta
Department of Geriatric and Palliative Medicine, Bispebjerg and Frederiksberg
Hospital
Geriatrisk forskningsenhed. Geriatrisk og palliativ afdeling GP. Bispebjerg og
Frederiksberg Hospital

Publications

Piper KS, Suetta C, Schou JV, Ryg J, Andersen HE, Langevad LV et al. **The SaVe project - Sarcopenia and Vertigo in aging patients with colorectal cancer: A study protocol for three randomized controlled trials.** Journal of Geriatric Oncology . 2024 Apr 16;15(4):101770. 101770. Epub 2024 Apr 16. doi: 10.1016/j.jgo.2024.101770

Nygaard H, Kamper RS, Ekmann A, Hansen SK, Hansen P, Schultz M et al. **Co-Occurrence of Sarcopenia and Frailty in Acutely Admitted Older Medical Patients: Results from the Copenhagen PROTECT Study.** The Journal of frailty & aging. 2024 Mar 19;13(2):91-97. doi: 10.14283/jfa.2024.23

Christensen MG, Jacobsen KK, Nilsson C, Jepsen R, Thygesen L, Suetta C et al. **Prevalence and population characteristics associated with frailty in a rural low socioeconomic area in Denmark: the Lolland-Falster Health Study.** BMJ Open. 2024 Mar 7;14(3):e073754. e073754. doi: 10.1136/bmjopen-2023-073754

Jensen KY, Aagaard P, Suetta C, Nielsen JL, Schrøder HD, Grønset C et al. **Quality of life in patients with myositis is associated with functional capacity, body composition, and disease activity-Baseline data from a randomized controlled trial.** International Journal of Rheumatic Diseases. 2024 Mar;27(3):e15132. e15132. doi: 10.1111/1756-185X.15132

Korsholm MB, Pødenphant TW, Strømgaard SK, Petersen LW, Alexandersen C, Hoffmann SS et al. **Are statins making older persons weaker? A discontinuation study of muscular side effects.** GeroScience. 2024 Feb;46(1):853-865. doi: 10.1007/s11357-023-00817-2

Bjørnsbo KS, Brøns C, Aadahl M, Kampmann FB, Friis Bryde Nielsen C, Lundbergh B et al. **Protocol for the combined cardiometabolic deep phenotyping and registry-based 20-year follow-up study of the Inter99 cohort.** BMJ Open. 2024 Jan 29;14(1):e078501. e078501. doi: 10.1136/bmjopen-2023-078501

Kamper RS, Nygaard H, Ekmann A, Schultz M, Hansen SK, Hansen P et al. **Feasibility of Assessing Older Patients in the Acute Setting: Findings From the Copenhagen PROTECT Study.** Journal of the American Medical Directors Association. 2023 Dec;24(12):1898-1903. Epub 2023 Aug 8. doi: 10.1016/j.jamda.2023.07.002

Sørensen B, Aagaard P, Hjortshøj MH, Hansen SK, Suetta C, Couppé C et al. **Physiological and clinical effects of low-intensity blood-flow restricted resistance exercise compared to standard rehabilitation in adults with knee osteoarthritis-Protocol for a randomized controlled trial.** PLoS One. 2023 Dec;18(12 December):e0295666. e0295666. doi: 10.1371/journal.pone.0295666

Lewis CTA, Tabrizian L, Nielsen J, Laitila J, Beck TN, Olsen MS et al. **Physical activity impacts resting skeletal muscle myosin conformation and lowers its ATP consumption.** The Journal of general physiology. 2023 Jul 3;155(7):e202213268. doi: 10.1085/jgp.202213268

Baarts RB, Jensen MR, Hansen OM, Haddock B, Prescott E, Hovind P et al. **Age- and sex-specific changes in visceral fat mass throughout the life-span.** Obesity (Silver Spring, Md.). 2023 Jul;31(7):1953-1961. doi: 10.1002/oby.23779

Botella J, Schytz CT, Pehrson TF, Hokken R, Laugesen S, Aagaard P et al. **Increased mitochondrial surface area and cristae density in the skeletal muscle of strength athletes.** The Journal of physiology. 2023 Jul;601(14):2899-2915. doi: 10.1113/JP284394, 10.1113/JP284394

Merhi Y, Betancur PF, Ripolles TS, Suetta C, Brage-Andersen MR, Hansen SK et al. **Printed dry electrode for neuromuscular electrical stimulation (NMES) for e-textile.** Nanoscale. 2023 Mar 16;15(11):5337-5344. doi: 10.1039/d2nr06008f

Jensen S, Bloch Z, Quist M, Hansen TTD, Johansen C, Pappot H et al. **Sarcopenia and loss of muscle mass in patients with lung cancer undergoing chemotherapy treatment: a systematic review and meta-analysis.** *Acta Oncologica.* 2023 Mar;62(3):318-328. doi: 10.1080/0284186X.2023.2180660

Dolin TG, Mikkelsen MK, Jakobsen HL, Vinther A, Zerahn B, Nielsen DL et al. **The prevalence of sarcopenia and cachexia in older patients with localized colorectal cancer.** *Journal of Geriatric Oncology.* 2023 Jan;14(1):101402. 101402. doi: 10.1016/j.jgo.2022.11.001

Heltø ALK, Rosager EV, Aasbrenn M, Maule CF, Petersen J, Nielsen FE et al. **Predicting Short-Term Mortality in Older Patients Discharged from Acute Hospitalizations Lasting Less Than 24 Hours.** *Clinical Epidemiology.* 2023;15:707-719. doi: 10.2147/CLEP.S405485

Elam C, Hvid LG, Christensen U, Kjær M, Magnusson SP, Aagaard P et al. **Effects of age on muscle power, postural control and functional capacity after short-term immobilization and retraining.** *Journal of Musculoskeletal Neuronal Interactions.* 2022 Dec 1;22(4):486-497.

Ipsen JA, Pedersen LT, Viberg B, Nørgaard B, Suetta C, Bruun IH. **Rehabilitation for life: the effect on physical function of rehabilitation and care in older adults after hip fracture—study protocol for a cluster-randomised stepped-wedge trial.** *Trials.* 2022 Dec;23(1):375. doi: 10.1186/s13063-022-06321-w

Kristensen MT, Dall CH, Aadahl M, Suetta C. **Systematisk måling af fysisk funktion hos voksne patienter på tværs af diagnoser.** *Ugeskrift for Læger.* 2022 Oct 24;184(43).

Amorim S, Felício AC, Aagaard P, Suetta C, Blauenfeldt RA, Andersen G. **Effects of remote ischemic conditioning on cognitive performance: A systematic review.** *Physiology & Behavior.* 2022 Oct 1;254:113893. 113893. doi: 10.1016/j.physbeh.2022.113893

Omland LH, Joensen UN, Toft BG, Lund CM, Lindberg H, Knudsen MB et al. **Reasons for lack of treatment in patients with locally advanced, unresectable or metastatic urothelial carcinoma.** *Acta Oncologica.* 2022 Sept;61(9):1036-1042. Epub 2022 Aug 25. doi: 10.1080/0284186X.2022.2114378

Nygaard H, Henriksen M, Suetta C, Ekmann A. **Comparison of two frailty screening tools for acutely admitted elderly patients.** *Danish Medical Journal.* 2022 Jul 6;69(8):A11210866.

Rashid A, Chaudhary Hauge S, Suetta C, Hansen D. **"Sarcopenia and risk of osteoporosis, falls and bone fractures in patients with chronic kidney disease: A systematic review".** *PLoS One.* 2022 Jan;17(1):e0262572. e0262572. doi: 10.1371/journal.pone.0262572

Omland LH, Ammitzbøll G, Lund CM, Lindberg H, Dalton SO, Suetta C et al. **Muscle mass and physical function in patients with bladder cancer—Data from a prematurely terminated prospective cohort study.** *Frontiers in rehabilitation sciences.* 2022;3:942475. 942475. doi: 10.3389/fresc.2022.942475

Centner C, Jerger S, Mallard A, Herrmann A, Varfolomeeva E, Gollhofer S et al. **Supplementation of Specific Collagen Peptides Following High-Load Resistance Exercise Upregulates Gene Expression in Pathways Involved in Skeletal Muscle Signal Transduction.** *Frontiers in Physiology.* 2022;13:838004. 838004. doi: 10.3389/fphys.2022.838004

Kamper RS, Alcazar J, Andersen LL, Haddock B, Jørgensen NR, Hovind P et al. **Associations between inflammatory markers, body composition, and physical function: the Copenhagen Sarcopenia Study.** *Journal of Cachexia, Sarcopenia and Muscle.* 2021 Dec;12(6):1641-1652. doi: 10.1002/jcsm.12832

Alcazar J, Frandsen U, Prokhorova T, Kamper RS, Haddock B, Aagaard P et al. **Changes in systemic GDF15 across the adult lifespan and their impact on maximal muscle power: the Copenhagen Sarcopenia Study.** *Journal of Cachexia, Sarcopenia and Muscle.* 2021 Dec;12(6):1418-1427. doi: 10.1002/jcsm.12823

Alcazar J, Alegre LM, Suetta C, Júdece PB, Van Roie E, González-Gross M et al. **Threshold of Relative Muscle Power Required to Rise from a Chair and Mobility Limitations and Disability in Older Adults.** *Medicine and Science in Sports and Exercise.* 2021 Nov 1;53(11):2217-2224. 0000000000002717. Epub 2021 Jun 7. doi: 10.1249/MSS.0000000000002717

Alcazar J, Aagaard P, Haddock B, Kamper RS, Hansen SK, Prescott E et al. **Assessment of functional sit-to-stand muscle power: Cross-sectional trajectories across the lifespan.** *Experimental Gerontology.* 2021 Sept;152:111448. 111448. doi: 10.1016/j.exger.2021.111448

Alcazar J, Alegre LM, Van Roie E, Magalhães JP, Nielsen BR, González-Gross M et al. **Relative sit-to-stand power: aging trajectories, functionally relevant cut-off points, and normative data in a large European cohort.** *Journal of Cachexia, Sarcopenia and Muscle.* 2021 Aug;12(4):921-932. 12737. Epub 2021 Jul 3. doi: 10.1002/jcsm.12737

Aasbrenn M, Christiansen CF, Öztürk Esen B, Suetta CA, Nielsen FE. **Mortality of older acutely admitted medical patients after early discharge from emergency departments: a nationwide cohort study.** *BMC Geriatrics.* 2021 Jul 2;21(1):410. 410. doi: 10.1186/s12877-021-02355-y

Jensen KY, Aagaard P, Schrøder HD, Suetta C, Nielsen JL, Boyle E et al. **High-intensity strength training in patients with idiopathic inflammatory myopathies: a randomised controlled trial protocol.** *BMJ Open.* 2021 Jun 25;11(6):e043793. doi: 10.1136/bmjopen-2020-043793

Haddock B, Hansen SK, Lindberg U, Nielsen JL, Frandsen U, Aagaard P et al. **Exercise-induced fluid shifts are distinct to exercise mode and intensity: a comparison of blood flow-restricted and free-flow resistance exercise.** *Journal of Applied Physiology.* 2021 Jun 1;130(6):1822-1835. doi: 10.1152/jappphysiol.01012.2020

Munk T, Bech CB, Klausen TW, Rønholt F, Suetta C, Knudsen AW. **Accuracy of the calculated serum osmolarity to screen for hyperosmolar dehydration in older hospitalised medical patients.** *Clinical Nutrition ESPEN.* 2021 Jun;43:415-419. doi: 10.1016/j.clnesp.2021.03.014

Frydenlund A, Poggi AI, Hansen SK, Brage-Andersen M, Merhi Y, Agarwala S et al. **Elektrisk stimulation mod muskel- og funktionstab hos en patient indlagt med COVID-19.** *Ugeskrift for Læger.* 2021 May 17;183(20):V03210275.

Eriksen CS, Kimer N, Suetta C, Møller S. **Arm lean mass determined by Dual-energy X-ray absorptiometry is superior to characterize skeletal muscle and predict sarcopenia-related mortality in cirrhosis.** *American Journal of Physiology: Gastrointestinal and Liver Physiology.* 2021 May 1;320(5):G729-G740. Epub 2021 Mar 17. doi: 10.1152/ajpgi.00478.2020

Simonsen C, Kristensen TS, Sundberg A, Wielsøe S, Christensen J, Hansen CP et al. **Assessment of sarcopenia in patients with upper gastrointestinal tumors: Prevalence and agreement between computed tomography and dual-energy x-ray absorptiometry.** *Clinical Nutrition.* 2021 May;40(5):2809-2816. doi: 10.1016/j.clnu.2021.03.022

Hansen TTD, Omland LH, von Heymann A, Johansen C, Clausen MB, Suetta C et al. **Development of Sarcopenia in Patients With Bladder Cancer: A Systematic Review.** *Seminars in Oncology Nursing.* 2021 Feb;37(1):151108. 151108. Epub 2021 Jan 8. doi: 10.1016/j.soncn.2020.151108

Dolin TG, Mikkelsen M, Jakobsen HL, Nordentoft T, Pedersen TS, Vinther A et al. **Geriatric assessment and intervention in older vulnerable patients undergoing surgery for colorectal cancer: a protocol for a randomised controlled trial (GEPOC trial).** *BMC Geriatrics.* 2021 Jan 30;21(1):88. 88. doi: 10.1186/s12877-021-02045-9

Christensen JB, Aasbrenn M, Castillo LS, Ekmann A, Jensen TG, Pressel E et al. **Commentary on "Predictors of Acute Kidney Injury After Hip Fracture in Older Adults".** *Geriatric Orthopaedic Surgery & Rehabilitation.* 2021;12:2151459320986125. doi: 10.1177/2151459320986125

Omland LH, Lindberg H, Carus A, Als AB, Jensen NV, Taarnhøj GA et al. **Real-world Treatment Patterns and Overall Survival in Locally Advanced and Metastatic Urothelial Tract Cancer Patients Treated with Chemotherapy in Denmark in the Preimmunotherapy Era: A Nationwide, Population-based Study.** *European Urology Open Science.* 2021;24:1-8. doi:

10.1016/j.euros.2020.12.002

Kamper RS, Schultz M, Hansen SK, Andersen H, Ekmann A, Nygaard H et al. **Biomarkers for length of hospital stay, changes in muscle mass, strength and physical function in older medical patients: protocol for the Copenhagen PROTECT study-a prospective cohort study.** *BMJ Paediatrics Open.* 2020 Dec 29;10(12):e042786. doi: 10.1136/bmjopen-2020-042786

Haddock B, Hansen SK, Lindberg U, Nielsen JL, Frandsen U, Aagaard P et al. **Physiological responses of human skeletal muscle to acute blood flow restricted exercise assessed by multimodal MRI.** *Journal of Applied Physiology.* 2020 Oct 1;129(4):748-759. doi: 10.1152/japophysiol.00171.2020

Alcazar J, Kamper RS, Aagaard P, Haddock B, Prescott E, Ara I et al. **Relation between leg extension power and 30-s sit-to-stand muscle power in older adults: validation and translation to functional performance.** *Scientific Reports.* 2020 Oct 1;10(1):16337. 16337. doi: 10.1038/s41598-020-73395-4

Nielsen BR, Andersen HE, Haddock B, Hovind P, Schwarz P, Suetta C. **Prevalence of muscle dysfunction concomitant with osteoporosis in a home-dwelling Danish population aged 65-93years - The Copenhagen Sarcopenia Study.** *Experimental Gerontology.* 2020 Sept;138:110974. Epub 2020 May 25. doi: 10.1016/j.exger.2020.110974

Diemar SS, Jørgensen NR, Eiken P, Suetta C, Andersen NB, Sejling AS. **The effect of normalization of sodium on bone turnover markers in patients with epilepsy. A randomized single-blinded placebo-controlled trial.** *Contemporary Clinical Trials Communications.* 2020 Sept;19:100587. doi: 10.1016/j.conctc.2020.100587

Karlsen A, Mackey AL, Suetta C, Kjaer M. **What is the impact of acute inflammation on muscle performance in geriatric patients?** *Experimental Gerontology.* 2020 Sept;138:111008. doi: 10.1016/j.exger.2020.111008

Alcazar J, Aagaard P, Haddock B, Kamper RS, Hansen SK, Prescott E et al. **Age- and Sex-Specific Changes in Lower-Limb Muscle Power Throughout the Lifespan.** *The journals of gerontology. Series A, Biological sciences and medical sciences.* 2020 Jul;75(7):1369-1378. doi: 10.1093/gerona/glaa013

Van Ancum JM, Alcazar J, Meskers CGM, Nielsen BR, Suetta C, Maier AB. **Impact of using the updated EWGSOP2 definition in diagnosing sarcopenia: A clinical perspective.** *Archives of Gerontology and Geriatrics.* 2020 Jun 14;90:104125. doi: 10.1016/j.archger.2020.104125

Nielsen JL, Frandsen U, Jensen KY, Prokhorova TA, Dalgaard LB, Bech RD et al. **Skeletal Muscle Microvascular Changes in Response to Short-Term Blood Flow Restricted Training-Exercise-Induced Adaptations and Signs of Perivascular Stress.** *Frontiers in Physiology.* 2020 Jun 12;11:556. doi: 10.3389/fphys.2020.00556

Klinge M, Aasbrenn M, Öztürk B, Christiansen CF, Suetta CA, Pressel E et al. **Readmission of older acutely admitted medical patients after short-term admissions in Denmark: A nationwide cohort study.** *BMC Geriatrics.* 2020 Jun 11;20(1):203. 203. doi: 10.1186/s12877-020-01599-4

Hansen SK, Ratzler J, Nielsen JL, Suetta CA, Karlsen A, Kvorning T et al. **Effects of alternating blood flow restricted training and heavy-load resistance training on myofiber morphology and mechanical muscle function.** *Journal of Applied Physiology.* 2020 Jun;128(6):1523-1532. doi: 10.1152/japophysiol.00015.2020

Braüner Christensen J, Aasbrenn M, Sandoval Castillo L, Ekmann A, Giver Jensen T, Pressel E et al. **Predictors of Acute Kidney Injury After Hip Fracture in Older Adults.** *Geriatric Orthopaedic Surgery & Rehabilitation.* 2020 Apr 14;11:2151459320920088. doi: 10.1177/2151459320920088

Aasbrenn M, Christiansen CF, Öztürk B, Suetta CA, Nielsen FE. **30-day mortality of elderly medical patients after short-term acute admissions in Denmark - a nationwide cohort study.** 2020. Poster session presented at The European Society for Emergency Medicine 2020.

Mandrup CM, Roland CB, Egelund J, Nyberg M, Enevoldsen LH, Kjaer A et al. **Effects of high-intensity exercise training on adipose tissue mass, glucose uptake and protein content in pre- and post-menopausal women.** *Frontiers in sports and active living.* 2020;2:60. 60. doi: 10.3389/fspor.2020.00060

Suetta C, Haddock B, Alcazar J, Noerst T, Hansen OM, Ludvig H et al. **The Copenhagen Sarcopenia Study: lean mass, strength, power, and physical function in a Danish cohort aged 20-93 years.** *Journal of Cachexia, Sarcopenia and Muscle.* 2019 Dec;10(6):1316-1329. doi: 10.1002/jcsm.12477

Haddock B, Fan AP, Uhrlich SD, Jørgensen NR, Suetta C, Gold GE et al. **Assessment of acute bone loading in humans using [18F]NaF PET/MRI.** *European Journal of Nuclear Medicine and Molecular Imaging.* 2019 Nov;46(12):2452-2463. doi: 10.1007/s00259-019-04424-2

Suetta C, Maier AB. **Is muscle failure a better term than sarcopenia?** *Journal of Cachexia, Sarcopenia and Muscle.* 2019 Oct;10(5):1146-1147. doi: 10.1002/jcsm.12447

Haddock B, Fan AP, Jørgensen NR, Suetta C, Gold GE, Kogan F. **Kinetic [18F]-Fluoride of the knee in normal volunteers.** *Clinical Nuclear Medicine.* 2019 May;44(5):377-385. doi: 10.1097/RLU.0000000000002533

Diemar SS, Sejling AS, Eiken P, Suetta C, Jørgensen NR, Andersen NB. **Hyponatremia and metabolic bone disease in patients with epilepsy: A cross-sectional study.** *Bone.* 2019;123:67-75. doi: 10.1016/j.bone.2019.03.017

Klinge M, Aasbrenn M, Suetta CA, Pressel E, Christiansen CF, Öztürk B et al. **Readmission of elderly medical patients after short term acute admissions in Denmark – a nationwide observational study.** *European Geriatric Medicine.* 2019;10 (Suppl 1):S1–S325 (<https://doi.org/10.1007/s41999-019-00221-0>).

Enevoldsen LH, Tindborg M, Hovmand NL, Christoffersen C, Ellingsgaard H, Suetta C et al. **Functional brown adipose tissue and sympathetic activity after cold exposure in humans with type 1 narcolepsy.** *Sleep.* 2018 Aug 1;41(8):zsy092. doi: 10.1093/sleep/zsy092

Nielsen BR, Andersen HE, Schwarz P, Abdulla JAM, Suetta CA. **Sarcopenia and osteoporosis in older people: a systematic review and meta-analysis.** *European Geriatric Medicine.* 2018 Jul;9 (4):419-434. doi: 10.1007/s41999-018-0079-6

Hvid LG, Aagaard P, Ørtenblad N, Kjaer M, Suetta C. **Plasticity in central neural drive with short-term disuse and recovery - effects on muscle strength and influence of aging.** *Experimental Gerontology.* 2018 Jun;106:145-153. doi: 10.1016/j.exger.2018.02.019

Christensen MG, Piper KS, Dreier R, Suetta C, Andersen HE. **Prevalence of sarcopenia in a Danish geriatric out-patient population.** *Danish Medical Journal.* 2018 Jun;65(6): A5485.

Mandrup CM, Egelund J, Nyberg M, Enevoldsen LH, Kjær A, Clemmensen AE et al. **Effects of menopause and high-intensity training on insulin sensitivity and muscle metabolism.** *Menopause (New York, N.Y.).* 2018 Feb;25(2):165-175. doi: 10.1097/GME.0000000000000981

Simonsen C, de Heer P, Bjerre ED, Suetta C, Hojman P, Pedersen BK et al. **Sarcopenia and Postoperative Complication Risk in Gastrointestinal Surgical Oncology: A Meta-analysis.** *Annals of Surgery.* 2018;268(1):58-69. doi: 10.1097/SLA.0000000000002679

Suetta C. **Plasticity and function of human skeletal muscle in relation to disuse and rehabilitation: Influence of ageing and surgery.** *Danish Medical Bulletin (Online).* 2017 Aug;64(8):B5377.

Nielsen JL, Aagaard P, Prokhorova TA, Nygaard T, Bech RD, Suetta C et al. **Blood flow restricted training leads to myocellular macrophage infiltration and upregulation of heat shock proteins, but no apparent muscle damage.** *The Journal of physiology*. 2017 Jul 15;595(14):4857-4873. doi: 10.1113/JP273907

Nielsen JL, Frandsen U, Prokhorova T, Bech RD, Nygaard T, Suetta C et al. **Delayed Effect of Blood Flow-restricted Resistance Training on Rapid Force Capacity.** *Medicine and Science in Sports and Exercise*. 2017 Jun;49(6):1157-1167. doi: 10.1249/MSS.0000000000001208

Nielsen J, Gejl KD, Hey-Mogensen M, Holmberg HC, Suetta C, Krstrup P et al. **Plasticity in mitochondrial cristae density allows metabolic capacity modulation in human skeletal muscle.** *The Journal of physiology*. 2017 May;595(9):2839-2847. doi: 10.1113/JP273040

Hvid LG, Brocca L, Ørtenblad N, Suetta C, Aagaard P, Kjaer M et al. **Myosin content of single muscle fibers following short-term disuse and active recovery in young and old healthy men.** *Experimental Gerontology*. 2017 Jan;87(Pt A):100-107. doi: 10.1016/j.exger.2016.10.009

Haddock B, Holm S, Poulsen JM, Enevoldsen LH, Larsson HBW, Kjær A et al. **Assessment of muscle function using hybrid PET/MRI: comparison of (18)F-FDG PET and T2-weighted MRI for quantifying muscle activation in human subjects.** *European Journal of Nuclear Medicine and Molecular Imaging*. 2017;44(4):704-711. doi: 10.1007/s00259-016-3507-1

Mandrup CM, Egelund J, Nyberg M, Lundberg Slingsby MH, Andersen C, Løgstrup S et al. **Effects of high-intensity training on cardiovascular risk factors in premenopausal and postmenopausal women.** *American Journal of Obstetrics and Gynecology*. 2017;216(4):384.e1-384.e11. doi: 10.1016/j.ajog.2016.12.017

Sundstrup E, Jakobsen MD, Andersen LL, Andersen TR, Randers MB, Helge JW et al. **Positive effects of 1-year football and strength training on mechanical muscle function and functional capacity in elderly men.** *European Journal of Applied Physiology and Occupational Physiology*. 2016 Jun;116(6):1127-38. doi: 10.1007/s00421-016-3368-0

Aagaard P, Jacobsen M, Jensen KY, Nielsen JL, Bülow J, Rørdam L et al. **Effects of Chronic Blood-Flow Restriction Exercise on Skeletal Muscle Size and Myogenic Satellite Cell Expression.** *Medicine and Science in Sports and Exercise*. 2016 May;48(5 Suppl 1):1032-3. doi: 10.1249/01.mss.0000488106.09083.4f

Kvorning T, Kadi F, Schjerling P, Andersen M, Brixen K, Suetta C et al. **The activity of satellite cells and myonuclei following 8 weeks of strength training in young men with suppressed testosterone levels.** *Acta Physiologica*. 2015;213(3):676-87. doi: 10.1111/apha.12404

Suetta CA. **Women and performance - Strenght training.** In Findlay L, editor, *Introduction to women and sport -exercise for health and performance-new knowledge based on scientific research.* Sisu Sport Books. 2014. p. 1-16

Andersen TR, Schmidt JF, Nielsen JJ, Randers MB, Sundstrup E, Jakobsen MD et al. **Effect of football or strength training on functional ability and physical performance in untrained old men.** *Scandinavian journal of medicine & science in sports*. 2014 Aug;24 Suppl 1:76-85. doi: 10.1111/sms.12245

Hvid LG, Suetta C, Nielsen JH, Jensen MM, Frandsen U, Ørtenblad N et al. **Aging impairs the recovery in mechanical muscle function following 4 days of disuse.** *Experimental Gerontology*. 2014 Apr;52:1-8. doi: 10.1016/j.exger.2014.01.012

Jespersen JG, Mikkelsen UR, Nedergaard A, Thorlund JB, Schjerling P, Suetta C et al. **Alterations in molecular muscle mass regulators after 8 days immobilizing Special Forces mission.** *Scandinavian journal of medicine & science in sports*. 2014 Jan 15. Epub 2014 Jan 15. doi: 10.1111/sms.12170

Andersen LL, Andersen CH, Skotte JH, Suetta C, Søgaard K, Saltin B et al. **High-intensity strength training improves function of chronically painful muscles: case-control and RCT studies.** *BioMed Research International*. 2014;2014:187324. doi: 10.1155/2014/187324

Nedergaard A, Sun S, Karsdal MA, Henriksen KS, Kjær M, Lou Y et al. **Type VI collagen turnover-related peptides-novel serological biomarkers of muscle mass and anabolic response to loading in young men.** *Journal of Cachexia, Sarcopenia and Muscle.* 2013 Dec;4(4):267-75. doi: 10.1007/s13539-013-0114-x

Pingel J, Harrison AP, Simonsen L, Suetta C, Bülow J, Langberg H. **The Microvascular Volume of the Achilles Tendon Is Increased in Patients With Tendinopathy at Rest and After a 1-Hour Treadmill Run.** *American Journal of Sports Medicine.* 2013 Oct 12;41(10):2400-2408. doi: 10.1177/0363546513498988

Beyer N, Suetta CA. **Ældre patienter bør tilbydes fysisk træning tidligt efter kirurgi.** *Ugeskrift for læger.* 2013 Oct 7;175(41):2421-2424.

Suetta C, Frandsen U, Mackey AL, Jensen L, Hvid LG, Bayer ML et al. **Ageing is associated with diminished muscle re-growth and myogenic precursor cell expansion early after immobility-induced atrophy in human skeletal muscle.** *The Journal of physiology.* 2013 Aug 1;591(Pt 15):3789-804. doi: 10.1113/jphysiol.2013.257121

Pingel J, Harrison AP, Suetta C, Simonsen L, Langberg H, Bülow J. **The acute effects of exercise on the microvascular volume of Achilles tendons in healthy young subjects.** *Clinical Physiology and Functional Imaging.* 2013 Jul;33(4):252-7. doi: 10.1111/cpf.12021

Hvid LG, Suetta C, Aagaard P, Kjaer M, Frandsen U, Ortenblad N. **Four days of muscle disuse impairs single fiber contractile function in young and old healthy men.** *Experimental Gerontology.* 2013;48(2):154-61. doi: 10.1016/j.exger.2012.11.005

Nielsen MJ, Nedergaard AF, Sun S, Veidal SS, Larsen L, Zheng Q et al. **The neo-epitope specific PRO-C3 ELISA measures true formation of type III collagen associated with liver and muscle parameters.** *American Journal of Translational Research.* 2013;5(3):303-15.

Suetta C, Frandsen U, Jensen L, Jensen MM, Jespersen JG, Hvid LG et al. **Aging affects the transcriptional regulation of human skeletal muscle disuse atrophy.** *P L o S One.* 2012;7(12):e51238. doi: 10.1371/journal.pone.0051238

Nielsen JL, Aagaard P, Bech RD, Nygaard T, Hvid LG, Wernbom M et al. **Proliferation of myogenic stem cells in human skeletal muscle in response to low-load resistance training with blood flow restriction.** *Journal of Physiology.* 2012;590(Pt 17):4351-61. doi: 10.1113/jphysiol.2012.237008

Andersen KF, Skøt J, Bülow J, Suetta C. **Storkarsvaskulitis påvist ved PET/CT hos patient med initialt formodet cancer.** *Ugeskrift for Laeger.* 2012;174(19):1313-4.

Bendixen M, Bischoff R, Randers MB, Mohr M, Suetta C, Rollo I et al. **The copenhagen soccer test: physiological response and fatigue development.** *Medicine and Science in Sports and Exercise.* 2012;44(8):1595-603. doi: 10.1249/MSS.0b013e31824cc23b

Couppé C, Suetta C, Kongsgaard M, Justesen L, Hvid LG, Aagaard P et al. **The effects of immobilization on the mechanical properties of the patellar tendon in younger and older men.** *Clinical Biomechanics.* 2012;27(9):949-54. doi: 10.1016/j.clinbiomech.2012.06.003

Thorlund JB, Jakobsen O, Madsen T, Christensen PA, Nedergaard A, Andersen JL et al. **Changes in muscle strength and morphology after muscle unloading in Special Forces missions.** *Scandinavian journal of medicine & science in sports.* 2011 Dec;21(6):e56-63. doi: 10.1111/j.1600-0838.2010.01149.x

Zebis MK, Bencke J, Andersen LL, Alkjaer T, Suetta C, Mortensen P et al. **Acute fatigue impairs neuromuscular activity of anterior cruciate ligament-agonist muscles in female team handball players.** *Scandinavian journal of medicine & science in sports.* 2011;21(6):833-40. doi: 10.1111/j.1600-0838.2010.01052.x

Hvid LG, Ortenblad N, Aagaard P, Kjaer M, Suetta C. **Effects of ageing on single muscle fibre contractile function following short-term immobilisation.** *Journal of Physiology.* 2011;589(Pt 19):4745-57. doi: 10.1113/jphysiol.2011.215434

Mackey AL, Andersen L, Frandsen U, Suetta C, Sjøgaard G. **Distribution of myogenic progenitor cells and myonuclei is altered in women with vs. those without chronically painful trapezius muscle.** *Journal of Applied Physiology.* 2010 Dec 1;109(6):1920-9. doi: 10.1152/jappphysiol.00789.2010

Hvid L, Aagaard P, Justesen L, Bayer ML, Andersen JL, Ortenblad N et al. **Effects of aging on muscle mechanical function and muscle fiber morphology during short-term immobilization and subsequent retraining.** *Journal of applied physiology* (Bethesda, Md. : 1985). 2010 Dec 1;109(6):1628-34. doi: 10.1152/jappphysiol.00637.2010

Nielsen J, Suetta C, Hvid LG, Schrøder HD, Aagaard P, Ortenblad N. **Subcellular localization-dependent decrements in skeletal muscle glycogen and mitochondria content following short-term disuse in young and old men.** *American Journal of Physiology: Endocrinology and Metabolism.* 2010 Dec;299(6):E1053-60. doi: 10.1152/ajpendo.00324.2010

Madsen OR, Rytter A, Hansen LB, Suetta C, Egsmose C. **Reproducibility of the Bath Ankylosing Spondylitis Indices of disease activity (BASDAI), functional status (BASFI) and overall well-being (BAS-G) in anti-tumour necrosis factor-treated spondyloarthropathy patients.** *Clinical Rheumatology.* 2010 Aug 1;29(8):849-54. doi: 10.1007/s10067-010-1407-5

Suetta CA, Clemmensen C, Andersen JL, Magnusson SP, Schjerling P, Kjaer M. **Coordinated increase in skeletal muscle fiber area and expression of IGF-I with resistance exercise in elderly post-operative patients.** *Growth hormone & IGF research : official journal of the Growth Hormone Research Society and the International IGF Research Society.* 2010 Apr 1;20(2):134-40. doi: 10.1016/j.ghir.2009.11.005

Krustrup P, Christensen JF, Thomsen MBR, Pedersen H, Sundstrup E, Jakobsen MD et al. **Muscle adaptations and performance enhancements of soccer training for untrained men.** *European Journal of Applied Physiology.* 2010 Apr 1;108(6):1247-58. doi: 10.1007/s00421-009-1319-8

Sundstrup E, Jakobsen MD, Andersen JL, Randers MB, Petersen J, Suetta C et al. **Muscle function and postural balance in lifelong trained male footballers compared with sedentary elderly men and youngsters.** *Scandinavian journal of medicine & science in sports.* 2010 Apr;20 Suppl 1:90-7. doi: 10.1111/j.1600-0838.2010.01092.x

Suetta C, Kjaer M. **What are the mechanisms behind disuse and age-related skeletal muscle atrophy?** *Scandinavian journal of medicine & science in sports.* 2010 Apr;20(2):167-8. doi: 10.1111/j.1600-0838.2010.01121.x

Aagaard P, Suetta C, Caserotti P, Magnusson SP, Kjaer M. **Role of the nervous system in sarcopenia and muscle atrophy with aging: strength training as a countermeasure.** *Scandinavian journal of medicine & science in sports.* 2010 Feb 1;20(1):49-64. doi: 10.1111/j.1600-0838.2009.01084.x

Andersen LL, Andersen JL, Suetta C, Kjaer M, Søgaard K, Sjøgaard G. **Effect of contrasting physical exercise interventions on rapid force capacity of chronically painful muscles.** *Journal of applied physiology* (Bethesda, Md. : 1985). 2009 Nov;107(5):1413-9. doi: 10.1152/jappphysiol.00555.2009

Carlson ME, Suetta C, Conboy MJ, Aagaard P, Mackey A, Kjaer M et al. **Molecular aging and rejuvenation of human muscle stem cells.** *E M B O Molecular Medicine (Online).* 2009 Nov;1(8-9):381-91. doi: 10.1002/emmm.200900045

Suetta C, Hvid LG, Justesen L, Christensen U, Neergaard K, Simonsen L et al. **Effects of aging on human skeletal muscle after immobilization and retraining.** *Journal of applied physiology* (Bethesda, Md. : 1985). 2009 Oct;107(4):1172-80. doi: 10.1152/jappphysiol.00290.2009

Couppé C, Hansen P, Kongsgaard M, Kovanen V, Suetta C, Aagaard P et al. **Mechanical properties and collagen cross-linking of the patellar tendon in old and young men.** *Journal of applied physiology* (Bethesda, Md. : 1985). 2009 Sept;107(3):880-6. doi: 10.1152/jappphysiol.00291.2009

Mackey AL, Bojsen-Møller J, Qvortrup K, Langberg H, Suetta C, Kalliokoski KK et al. **Evidence of skeletal muscle damage following electrically stimulated isometric muscle contractions in humans.** *Journal of Applied Physiology*. 2008 Nov;105(5):1620-7. doi: 10.1152/jappphysiol.90952.2008

Andersen LL, Suetta C, Andersen JL, Kjaer M, Sjøgaard G. **Increased proportion of megafibers in chronically painful muscles.** *Pain*. 2008 Oct 31;139(3):588-93. doi: 10.1016/j.pain.2008.06.013

Christensen PA, Jacobsen JO, Thorlund JB, Madsen T, Møller CRT, Jensen C et al. **Changes in maximum muscle strength and rapid muscle force characteristics after long-term special support and reconnaissance missions: a preliminary report.** *Military Medicine*. 2008 Sept;173(9):889-94.

Suetta C, Andersen JL, Dalgas U, Berget J, Koskinen S, Aagaard P et al. **Resistance training induces qualitative changes in muscle morphology, muscle architecture, and muscle function in elderly postoperative patients.** *Journal of Applied Physiology*. 2008 Jul;105(1):180-6. doi: 10.1152/jappphysiol.01354.2007

Suetta C, Magnusson SP, Beyer N, Kjaer M. **Effect of strength training on muscle function in elderly hospitalized patients.** *Scandinavian journal of medicine & science in sports*. 2007 Oct;17(5):464-72. doi: 10.1111/j.1600-0838.2007.00712.x

Suetta C, Aagaard P, Magnusson SP, Andersen LL, Sipilä S, Rosted A et al. **Muscle size, neuromuscular activation, and rapid force characteristics in elderly men and women: effects of unilateral long-term disuse due to hip-osteoarthritis.** *Journal of applied physiology* (Bethesda, Md. : 1985). 2007 Mar;102(3):942-8. doi: 10.1152/jappphysiol.00067.2006

Kvorning T, Andersen M, Brixen K, Schjerling P, Suetta CA, Madsen K. **Suppression of testosterone does not blunt mRNA expression of myoD, myogenin, IGF, myostatin or androgen receptor post strength training in humans.** *The Journal of physiology*. 2007 Jan 15;578(Pt 2):579-93. doi: 10.1113/jphysiol.2006.122671

Kjaer M, Suetta C, Tønnesen H. **Den fysisk inaktive operationspatient.** *Ugeskrift for Laeger*. 2006 Dec 4;168(49):4322-4.

Holm L, Esmarck B, Mizuno M, Hansen H, Suetta C, Hölmich P et al. **The effect of protein and carbohydrate supplementation on strength training outcome of rehabilitation in ACL patients.** *Journal of orthopaedic research : official publication of the Orthopaedic Research Society*. 2006 Nov;24(11):2114-23. doi: 10.1002/jor.20147

Olsen S, Aagaard P, Kadi F, Tufekovic G, Verney J, Olesen JL et al. **Creatine supplementation augments the increase in satellite cell and myonuclei number in human skeletal muscle induced by strength training.** *The Journal of physiology*. 2006 Jun 1;573(Pt 2):525-34. doi: 10.1113/jphysiol.2006.107359

Holm L, Esmarck B, Suetta C, Matsumoto K, Doi T, Mizuno M et al. **Postexercise nutrient intake enhances leg protein balance in early postmenopausal women.** *The journals of gerontology. Series A, Biological sciences and medical sciences*. 2005 Sept;60(9):1212-8.

Andersen LL, Andersen JL, Magnusson SP, Suetta C, Madsen HJ, Christensen L et al. **Changes in the human muscle force-velocity relationship in response to resistance training and subsequent detraining.** *Journal of Applied Physiology*. 2005 Jul;99(1):87-94. doi: 10.1152/jappphysiol.00091.2005

Andersen LL, Tufekovic G, Zebis MK, Cramer RM, Verlaan G, Kjaer M et al. **The effect of resistance training combined with timed ingestion of protein on muscle fiber size and muscle strength.** *Metabolism: Clinical and Experimental*. 2005 Feb;54(2):151-6. doi: 10.1016/j.metabol.2004.07.012

Suetta C, Magnusson SP, Rosted A, Aagaard P, Jakobsen AK, Larsen LH et al. **Resistance training in the early postoperative phase reduces hospitalization and leads to muscle hypertrophy in elderly hip surgery patients—a controlled, randomized study.** *Journal of the American Geriatrics Society*. 2004 Dec;52(12):2016-22. doi: 10.1111/j.1532-5415.2004.52557.x

Suetta C, Aagaard P, Rosted A, Jakobsen AK, Duus B, Kjaer M et al. **Training-induced changes in muscle CSA, muscle strength, EMG, and rate of force development in elderly subjects after long-term unilateral disuse.** Journal of Applied Physiology. 2004 Nov;97(5):1954-61. doi: 10.1152/jappphysiol.01307.2003

Madsen OR, Suetta C, Egsmose C, Lorentzen JS, Sørensen OH. **Bone status in rheumatoid arthritis assessed at peripheral sites by three different quantitative ultrasound devices.** Clinical Rheumatology. 2004 Aug;23(4):324-9. doi: 10.1007/s10067-004-0920-9

Crameri RM, Langberg H, Magnusson P, Jensen CH, Schrøder HD, Olesen JL et al. **Changes in satellite cells in human skeletal muscle after a single bout of high intensity exercise.** The Journal of physiology. 2004 Jul 1;558(Pt 1):333-40. doi: 10.1113/jphysiol.2004.061846

Crameri RM, Langberg H, Teisner B, Magnusson P, Schrøder HD, Olesen JL et al. **Enhanced procollagen processing in skeletal muscle after a single bout of eccentric loading in humans.** Matrix biology : journal of the International Society for Matrix Biology. 2004 Jul;23(4):259-64. doi: 10.1016/j.matbio.2004.05.009