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64. Padoa A, McLean L, Morin M, Vandyken C. The overactive pelvic floor (OPF) and sexual dysfunction. Part 2: evaluation and treatment of sexual dysfunction in OPF patients. *Sex Med Rev* 2021;9:76-92.
  65. Danchenko N, Johnston KM, Whalen J. The cost-effectiveness of abobotulinumtoxinA (Dysport) and onabotulinumtoxinA (Botox) for managing spasticity of the upper and lower limbs, and cervical dystonia. *J Med Econ* 2022;25:919-29.
  66. Pils K. Aspects of physical medicine and rehabilitation in geriatrics. *Wien Med Wochenschr* 2016;166:44-7.
  67. Olanrewaju O, Trott M, Smith L, et al. Chronic physical conditions, physical multimorbidity, and quality of life among adults aged ≥50 years from six low- and middle-income countries. *Qual Life Res* 2023;32:1031-41.
  68. Schlaeger JM, Glayzer JE, Villegas-Downs M, et al. Evaluation and treatment of vulvodynia: state of the science. *J Midwifery Womens Health* 2023;68:9-34.
  69. Hary V, Schitter S, Martinez V. Efficacy and safety of botulinum A toxin for the treatment of chronic peripheral neuropathic pain: a systematic review of randomized controlled trials and meta-analysis. *Eur J Pain* 2022;26:980-90.
  70. Datta Gupta A, Edwards S, Smith J, et al. A systematic review and meta-analysis of efficacy of botulinum toxin a for neuropathic pain. *Toxins (Basel)* 2022;14:36.
  71. Coraci D, Luchetti R, Paolasso I, et al. Intermittent ulnar nerve compression due to accessory abductor digiti minimi muscle: crucial diagnostic role of nerve ultrasound. *Muscle Nerve* 2015;52:463-4.
  72. Renna R, Coraci D, De Franco P, et al. Ultrasound study is useful to discriminate between axonotmesis and neurotmesis also in very small nerves: a case of sensory digital ulnar branch study. *Met Ultrason* 2012;14:352-4.
  73. Mihai EE, Popescu MN, Iliescu AN, Berceanu M. A systematic review on extracorporeal shock wave therapy and botulinum toxin for spasticity treatment: a comparison on efficacy. *Eur J Phys Rehabil Med* 2022;58:565-74.
  74. Ahmed S, Subramanian V, Sidhu K, et al. Effect of local anesthetic versus botulinum toxin-A injections for myofascial pain disorders: a systematic review and meta-analysis. *Clin J Pain* 2019;35:353-67.
  75. Leggio M, Fusco A, Coraci D, et al. Exercise training and atrial fibrillation: a systematic review and literature analysis. *Eur Rev Med Pharmacol Sci* 2021;25:5163-75.
  76. Struyf P, Triccas LT, Schillebeeckx F, Struyf F. The place of botulinum toxin in spastic hemiplegic shoulder pain after stroke: a scoping review. *Int J Environ Res Public Health* 2023;20:2797.
  77. Hsu PC, Chang KV, Chiu YH, et al. Comparative effectiveness of botulinum toxin injections and extracorporeal shockwave therapy for post-stroke spasticity: a systematic review and network meta-analysis. *EclinicalMedicine* 2021;43:101222.
  78. Wang C, Zhao J, Gao F, et al. The efficacy and safety of intra-articular botulinum toxin type A injection for knee osteoarthritis: a meta-analysis of randomized controlled trials. *Toxicon* 2023;224:107026.
  79. Grüner S, Schulz A, Schlüter-Brust K, Lippert-Grüner M. Botulinum toxin for chronic lateral epicondylitis (LE). *Z Orthop Unfall* 2021;159:554-64.
  80. Soleiman F, Kouhzad Mohamadi H, Saadat M, Derisfard F, Nassadj G. A protocol for a randomized trial on pain neuroscience education vs. routine physical therapy in people with chronic neck pain. *Eur J Transl Myol* 2022;32:10674.
  81. Guo X, Wallace B, Tan Y, et al. Technology-assisted assessment of spasticity: a systematic review. *J Neuroeng Rehabil* 2023;19:138.
  82. Park HS, Jo SM, Dasari S, Moon YL. Comparison of clinical outcomes of platelet-rich plasma for epicondylitis, elbow: simultaneous lateral and medial versus lateral versus medial. *Orthop Surg* 2023;15:2110-5.
  83. Patriona-Vargas F, Mun KT, Lo EH, et al. Circadian variation in stroke onset: differences between ischemic and hemorrhagic stroke and weekdays versus weekends. *J Stroke Cerebrovasc Dis* 2023;32:107106.
  84. Ferreira ACL, Pereira DS, da Silva SLA, et al. Validity and reliability of the short form brief pain inventory in older adults with nociceptive, neuropathic and nociplastic pain. *Geriatr Nurs* 2023;52:16-23.
  85. Giovannini S, Coraci D, Brau F, et al. Neuropathic pain in the elderly. *Diagnostics (Basel)* 2021;11:613.

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#### Online supplementary materials

**Supplementary Table 1.** Result of the systematic review. Risk of bias is shown for randomization (RANDOM.), allocation (ALLOC.), blinding of participants (B PART.) and outcome (B OUTC.), completeness of outcome data (OUTCOME) and selective reporting (REPORT) and indicated as low (L), unclear (U) and high (H). BTX (botulinum toxin), SCI (spinal cord injury). When available, the molecule of BTX is reported: Abobotulinum toxin A (ABO), Incobotulinum toxin A (INC), Lanbotulinum toxin A (LAN), Neuronox (NEU), Onabotulinum toxin A (ONA), Prabotulinum toxin A (PRA), Rimabotulinum toxin B (RIM).