

# Supplement to the Treatment of Carpal Tunnel Syndrome Evidence-Based Clinical Practice Guideline

## **e-Appendix 1**

- Excluded Articles
- AAOS Approval Bodies
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- Letters of Endorsements from External Organizations

This supplementary material has been provided by the authors to give readers additional information about their work

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## Excluded Articles

Authors	Article Title	Year	Reason for Exclusion
Kiyamaz, N.; Cirak, B.; Tuncay, I.; Demir, O.	Comparing open surgery with endoscopic releasing in the treatment of carpal tunnel syndrome	2002	update PICO published before 2015, captured in 2016
Lang, E.; Spitzer, A.; Pfannmuller, D.; Claus, D.; Handwerker, H. O.; Neundorfer, B.	Function of thick and thin nerve fibers in carpal tunnel syndrome before and after surgical treatment	1995	update PICO published before 2015, captured in 2016
Wang, H.; Ma, J.; Zhao, L.; Wang, Y.; Jia, X.	Utility of MRI Diffusion Tensor Imaging in Carpal Tunnel Syndrome: A Meta-Analysis	2016	Systematic review; bib review complete
Keser, N.; Dortcan, N.; Cikla, U.; Uluc, K.; Celikoglu, E.; Is, M.; Gurer, B.	Semivertical Incision: An Aesthetically and Electrophysiologically Effective Mini-Incision Technique for Carpal Tunnel Decompression	2017	No comparison group - all patients received SV skin incision technique
Goh, C. H.; Lau, B. L.; Teong, S. Y.; Law, W. C.; Tan, C. S.; Vasu, R.; Liew, D.	Comparing the outcome of monitored anaesthesia care and local anaesthesia for carpal tunnel syndrome surgery by neurosurgeons	2019	Sample sizes too small, <10 in MAC+LA group
Farahmand, B.; Pourhosaingholi, E.; Bagheri, A.	Investigating the effects of volar wrist cock-up splint and dorsal lock wrist hand orthosis in reducing signs of carpal tunnel syndrome	2021	Follow up criteria not met; f/u only 3 weeks
Saaq, M.	Presentation and outcome of carpal tunnel syndrome with mini incision open carpal tunnel release	2021	No comparison group
Kim, J. C.; Jung, S. H.; Lee, S. U.; Lee, S. Y.	Effect of extracorporeal shockwave therapy on carpal tunnel syndrome: A systematic review and meta-analysis of randomized controlled trials	2019	Systematic review; bib review complete
Chen, Y.; Ji, W.; Li, T.; Cong, X.; Chen, Z.	The mini-incision technique for carpal tunnel release using nasal instruments in Chinese patients	2017	no comparison group
Huh, J.; Shim, K. S.; Cho, H. J.; Lee, B. J.; Park, D.	Polydeoxyribonucleotide injection in the treatment of patients with carpal tunnel syndrome: Retrospective preliminary study	2019	no comparison group
Baic, A.; Kasprzyk, T.; Rzany, M.; Stanek, A.; Sieron, K.; Suszynski, K.; Marcol, W.; Cholewka, A.	Can we use thermal imaging to evaluate the effects of carpal tunnel syndrome surgical decompression?	2017	Irrelevant comparison: already diagnosed CTS patients vs healthy controls
Bang, M.; Kim, J. M.; Kim, H. S.	The usefulness of ultrasonography to diagnose the early stage of carpal tunnel syndrome in proximal to the carpal tunnel inlet: A prospective study	2019	irrelevant comparison
Bian, Z.; Yu, J.; Tu, M.; Liao, B.; Huang, J.; Jiang, Y.; Fang, J.	Acupuncture and related therapies for carpal tunnel syndrome: A protocol for systematic review and Bayesian network meta-analysis	2021	systematic review; bib review complete
Chen, C. C.; Wu, Y. T.; Su, Y. C.; Shen, Y. P.; Chen, F. P.	Efficacy of laser acupuncture for carpal tunnel syndrome: A study protocol for a prospective double-blind randomized controlled trial	2019	protocol for a study, not actual
Chen, J.; Chen, L.; Wu, L.; Wang, R.; Liu, J. B.; Hu, B.; Jiang, L. X.	Value of superb microvascular imaging ultrasonography in the diagnosis of carpal tunnel syndrome: Compared with color Doppler and power Doppler	2017	Irrelevant comparison: already diagnosed CTS patients vs healthy controls
Li, G.; Kong, L.; Kou, N.; Wang, Y.; Yu, K.; Bai, J.; Tian, D.	The comparison of limited-incision versus standard-incision in treatment of carpal tunnel syndrome: A meta-analysis of randomized controlled trials	2019	Systematic review; bib review complete

Authors	Article Title	Year	Reason for Exclusion
Li, Z. J.; Wang, Y.; Zhang, H. F.; Ma, X. L.; Tian, P.; Huang, Y.	Effectiveness of low-level laser on carpal tunnel syndrome: A meta-analysis of previously reported randomized trials	2016	Systematic review; bib review complete
Zhou, Q.; Shen, Y.; Sun, X.; Qiu, Z.; Jia, Y.; Li, S.	Acupotomy for patients with carpal tunnel syndrome: A systematic review protocol	2019	systematic review; protocol; exclude
Zhang, J.; Zhu, W.; Lin, M.; Jiang, C.	Superb microvascular imaging for detecting carpal tunnel syndrome compared with power Doppler ultrasonography: A protocol for systematic review and meta-analysis	2021	systematic review; bib review complete
Lee, S.; Cho, H. R.; Yoo, J. S.; Kim, Y. U.	The prognostic value of median nerve thickness in diagnosing carpal tunnel syndrome using magnetic resonance imaging: a pilot study	2020	Irrelevant comparison: already diagnosed CTS patients vs healthy controls
Dimitrova, A.; Murchison, C.; Oken, B.	The Case for Local Needling in Successful Randomized Controlled Trials of Peripheral Neuropathy: A Follow-Up Systematic Review	2018	Systematic review; bib review complete
Spielman, A. F.; Sankaranarayanan, S.; Skowronski, P.; Lessard, A. S.; Panthaki, Z.	Recurrent and persistent carpal tunnel syndrome: "Triple-therapy approach"	2020	No comparison group
Zuo, D.; Zhou, Z.; Wang, H.; Liao, Y.; Zheng, L.; Hua, Y.; Cai, Z.	Endoscopic versus open carpal tunnel release for idiopathic carpal tunnel syndrome: a meta-analysis of randomized controlled trials	2015	Systematic review; bib review completed
Lazaro, R. P.; Eagan, T. S.	Concurrent musculoskeletal and soft tissue pain in the upper extremity can affect the treatment and prognosis of carpal tunnel syndrome: redefining a common condition	2017	No comparison of interest
Di Stefano, G.; Di Lionardo, A.; Galosi, E.; Truini, A.; Cruccu, G.	Acetyl-L-carnitine in painful peripheral neuropathy: A systematic review	2019	Systematic review; bib review completed
Yildirim, P.; Gunduz, O. H.	What is the role of Semmes-Weinstein monofilament testing in the diagnosis of electrophysiologically graded carpal tunnel syndrome?	2015	irrelevant comparison
Kim, S. D.	Efficacy of tendon and nerve gliding exercises for carpal tunnel syndrome: a systematic review of randomized controlled trials	2015	Systematic review; bib review completed
Huh, J. H.; Jeong, H. I.; Kim, K. H.	Effect of Manual Acupuncture for Mild-to-Moderate Carpal Tunnel Syndrome: A Systematic Review	2021	systematic review; bib review complete
Rab, M.; Grunbeck, M.; Beck, H.; Haslik, W.; Schrogendorfer, K. F.; Schiefer, H. P.; Mittlbock, M.; Frey, M.	Intra-individual comparison between open and 2-portal endoscopic release in clinically matched bilateral carpal syndrome	2006	update PICO published before 2015, captured in 2016
Burnham, T.; Higgins, D. C.; Burnham, R. S.; Heath, D. M.	Effectiveness of osteopathic manipulative treatment for carpal tunnel syndrome: a pilot project	2015	Patient population >10
Mehner, T. R.; Lewis, D. D.	Osteopathic Approach to Treatment of Carpal Dysfunction: The Carpal Mobilization Technique	2020	Review article
Mizrak, A.; Gul, R.; Erkutlu, I.; Alptekin, M.; Oner, U.	Premedication with dexmedetomidine alone or together with 0.5% lidocaine for IVRA	2010	update PICO published before 2015, captured in 2016, Irrelevant Comparison

Authors	Article Title	Year	Reason for Exclusion
Shiri, R.; Falah-Hassani, K.	Computer use and carpal tunnel syndrome: A meta-analysis	2015	Systematic review; bib review completed
Polat, Y. D.; Aydin, E.; Ince, F. S.; Bilgen, M.	Sonoelastic response of median nerve to rehabilitation in carpal tunnel syndrome	2020	No comparison group
Hosseini-Farid, M.; Schrier, Vjmm; Starlinger, J.; Amadio, P. C.	Carpal Tunnel Syndrome Treatment and the Subsequent Alterations in Median Nerve Transverse Mobility	2021	Irrelevant comparison: op vs nonop CTS
Corre, A. L.; Huynh, K. P.; Dhaliwal, R. S.; Bain, G. I.	Development of a Protocol for SPECT/CT in the Assessment of Wrist Disorders	2016	irrelevant intervention/exposure
Ayyala, H. S.; Castel, N.; Mohamed, O. M.; Xue, E. Y.; Oleck, N. C.; Lee, E. S.	Utility of local anesthesia for open carpal tunnel release in patients with psychiatric diagnoses	2020	Irrelevant comparison: anesthesia during CTS surgery for psychiatric vs non-psychiatric patients
Gonzalez-Suarez, C. B.; Buenavente, L. D.; Cua, R. C. A.; Fidel, M. B. C.; Cabrera, J. C.; Regala, C. F. G.	Inter-Rater and Intra-Rater Reliability of Sonographic Median Nerve and Wrist Measurements	2018	Systematic review, bib review complete
Fu, T.; Lineaweaver, W. C.; Zhang, F.; Zhang, J.	Role of shortwave and microwave diathermy in peripheral neuropathy	2019	Systematic review; bib review completed
Vo, N. Q.; Nguyen, T. H. D.; Nguyen, D. D.; Le, T. B.; Le, N. T. N.; Nguyen, T. T.	The value of sonographic quantitative parameters in the diagnosis of carpal tunnel syndrome in the Vietnamese population	2021	Irrelevant comparison: already diagnosed CTS patients vs healthy controls
Ballester-Perez, R.; Plaza-Manzano, G.; Urraca-Gesto, A.; Romo-Romo, F.; Atin-Arratibel, M. L. A.; Pecos-Martin, D.; Gallego-Izquierdo, T.; Romero-Franco, N.	Effectiveness of Nerve Gliding Exercises on Carpal Tunnel Syndrome: A Systematic Review	2017	Systematic review; bib review complete
Burke, J.; Buchberger, D. J.; Carey-Loghmani, M. T.; Dougherty, P. E.; Greco, D. S.; Dishman, J. D.	A pilot study comparing two manual therapy interventions for carpal tunnel syndrome	2007	update PICO published before 2015, captured in 2016, relevant to 2022
D'Angelo, K.; Sutton, D.; Cote, P.; Dion, S.; Wong, J. J.; Yu, H.; Randhawa, K.; Southerst, D.; Varatharajan, S.; Cox Dresser, J.; Brown, C.; Menta, R.; Nordin, M.; Shearer, H. M.; Ameis, A.; Stupar, M.; Carroll, L. J.; Taylor-Vaisey, A.	The effectiveness of passive physical modalities for the management of soft tissue injuries and neuropathies of the wrist and hand: a systematic review by the Ontario Protocol for Traffic Injury Management (OPTIMa) collaboration	2015	Systematic review; bib review complete
Rayegani, S. M.; Moradi-Joo, M.; Raeissadat, S. A.;	Effectiveness of Low-Level Laser Therapy compared to Ultrasound in Patients With Carpal Tunnel Syndrome: A Systematic Review and Meta-analysis	2019	Systematic review; bib review complete

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Bahrami, M. H.; Seyed-Nezhad, M.; Heidari, S.			
Khosrawi, S.; Khosravi, M.; Haghighat, S.; Akbari, M.	Duloxetine in the treatment of carpal tunnel syndrome: a pilot randomized clinical trial study	2018	Article not in English; only abstract is in English
Slutsky, D. J.	Use of nerve conduction studies and the pressure-specified sensory device in the diagnosis of carpal tunnel syndrome	2009	update PICO published before 2015, captured in 2016, Irrelevant Comparison
Hochberg, J.	A randomized prospective study to assess the efficacy of two cold-therapy treatments following carpal tunnel release	2001	update PICO published before 2015, captured in 2016
Janssen, R. G.; Schwartz, D. A.; Velleman, P. F.	A randomized controlled study of contrast baths on patients with carpal tunnel syndrome	2009	update PICO published before 2015, captured in 2016, no outcomes of interest
O'Brien, L.; Hardman, A.; Goldby, S.	The impact of a hand therapy screening and management clinic for patients referred for surgical opinion in an Australian public hospital	2013	update PICO published before 2015, captured in 2016, no outcomes of interest
Ellis, R.; Blyth, R.; Arnold, N.; Miner- Williams, W.	Is there a relationship between impaired median nerve excursion and carpal tunnel syndrome? A systematic review	2017	Systematic review; bib review complete
Mansfield, C. J.; Vanetten, L.; Willy, R.; di Stasi, S.; Magnussen, R.; Briggs, M.	The Effects of Needling Therapies on Muscle Force Production: A Systematic Review and Meta-analysis	2019	Systematic review; bib review complete
Yeap Loh, P.; Liang Yeoh, W.; Nakashima, H.; Muraki, S.	Impact of keyboard typing on the morphological changes of the median nerve	2017	No CTS group, only healthy subjects studied
Li, W.; Dong, C.; Wei, H.; Xiong, Z.; Zhang, L.; Zhou, J.; Wang, Y.; Song, J.; Tan, M.	Extracorporeal shock wave therapy versus local corticosteroid injection for the treatment of carpal tunnel syndrome: a meta-analysis	2020	systematic review; bib review complete
Ma, T.; Wang, D.; Hu, Y.; Zhao, X.; Wang, W.; Song, L.	Correction to: Mini-transverse incision using a novel bush-hook versus conventional open incision for treatment of carpal tunnel syndrome: a prospective study	2021	Correction to another paper
Okada, M.; Tsubata, O.; Yasumoto, S.; Toda, N.; Matsumoto, T.	Clinical study of surgical treatment of carpal tunnel syndrome: Open versus endoscopic technique	2000	Irrelevant comparison: all patients received Okutsu's endoscopic technique
Gerritsen, A. A.; de Krom, M. C.; Struijs, M. A.; Scholten, R. J.; de Vet, H. C.; Bouter, L. M.	Conservative treatment options for carpal tunnel syndrome: a systematic review of randomised controlled trials	2002	Systematic review; bib review complete
Salvalaggio, A.; Coraci, D.; Cacciavillani, M.; Obici, L.; Mazzeo, A.; Luigetti, M.; Pastorelli, F.; Grandis, M.; Cavallaro, T.; Bisogni,	Nerve ultrasound in hereditary transthyretin amyloidosis: red flags and possible progression biomarkers	2021	Irrelevant comparison & outcomes of interest

Authors	Article Title	Year	Reason for Exclusion
G.; Lozza, A.; Gemelli, C.; Gentile, L.; Ermani, M.; Fabrizi, G. M.; Plasmati, R.; Campagnolo, M.; Castellani, F.; Gasparotti, R.; Martinoli, C.; Padua, L.; Briani, C.			
Chaurasia, R. N.; Kawale, S. S.; Pathak, A.; Mishra, V. N.; Joshi, D.	Clinical Evaluation and Diagnostic Utilities of Different Nerve Conduction Tests in 100 Patients with Carpal Tunnel Syndrome	2017	No comparison group - EDX only
Gupta, S.; Tewari, A. K.; Nair, V.; Gupta, A.	Reliability of motor parameters for follow-up after local steroid injection in carpal tunnel syndrome	2013	update PICO published before 2015, captured in 2016
Evers, S.; Bryan, A. J.; Sanders, T. L.; Gunderson, T.; Gelfman, R.; Amadio, P. C.	Influence of Injection Volume on Rate of Subsequent Intervention in Carpal Tunnel Syndrome Over 1-Year Follow-Up	2018	no outcomes of interest
Gould, D.; Kulber, D.; Kuschner, S.; Dellamaggiorra, R.; Cohen, M.	Our Surgical Experience: Open Versus Endoscopic Carpal Tunnel Surgery	2018	not a clinical study
Follmar, K. E.; Chetelat, M. D.; Lifchez, S. D.	Outcome of endoscopic carpal tunnel release in patients with chronic nonhand pain compared with those without chronic pain	2012	update PICO published before 2015, captured in 2016, Irrelevant Comparison
Foulkes, G. D.; Atkinson, R. E.; Beuchel, C.; Doyle, J. R.; Singer, D. I.	Outcome following epineurotomy in carpal tunnel syndrome: a prospective, randomized clinical trial	1994	update PICO published before 2015, captured in 2016
Jansen, M. C.; Evers, S.; Slijper, H. P.; de Haas, K. P.; Smit, X.; Hovius, S. E.; Selles, R. W.	Predicting Clinical Outcome After Surgical Treatment in Patients With Carpal Tunnel Syndrome	2018	release techniques not specified, does not fit PICO intervention
Kadzielski, J.; Malhotra, L. R.; Zurakowski, D.; Lee, S. G.; Jupiter, J. B.; Ring, D.	Evaluation of preoperative expectations and patient satisfaction after carpal tunnel release	2008	update PICO published before 2015, captured in 2016, no comparison group
Peters, B.; Izadpanah, A.; Islur, A.	Analgesic Consumption Following Outpatient Carpal Tunnel Release	2018	no comparison group
Nguyen, C.; Milstein, A.; Hernandez-Boussard, T.; Curtin, C. M.	The Effect of Moving Carpal Tunnel Releases Out of Hospitals on Reducing United States Health Care Charges	2015	Irrelevant topic (hospital charges)
Sears, E. D.; Meerwijk, E. L.; Schmidt, E. M.; Kerr, E. A.; Chung, K. C.; Kamal, R. N.; Harris, A. H. S.	Variation in Nonsurgical Services for Carpal Tunnel Syndrome Across a Large Integrated Health Care System	2019	no outcomes of interest

Authors	Article Title	Year	Reason for Exclusion
Siegmeth, A. W.; Hopkinson-Woolley, J. A.	Standard open decompression in carpal tunnel syndrome compared with a modified open technique preserving the superficial skin nerves: a prospective randomized study	2006	update PICO published before 2015, captured in 2016
Silver, M. A.; Gelberman, R. H.; Gellman, H.; Rhoades, C. E.	Carpal tunnel syndrome: associated abnormalities in ulnar nerve function and the effect of carpal tunnel release on these abnormalities	1985	update PICO published before 2015, captured in 2016
Werner, B. C.; Teran, V. A.; Deal, D. N.	Patient-Related Risk Factors for Infection Following Open Carpal Tunnel Release: An Analysis of Over 450,000 Medicare Patients	2018	No comparison group - all patients underwent open CTR
al-Qattan, M. M.; Bowen, V.; Manktelow, R. T.	Factors associated with poor outcome following primary carpal tunnel release in non-diabetic patients	1994	update PICO published before 2015, captured in 2016
Patil, S.; Ramakrishnan, M.; Stothard, J.	Local anaesthesia for carpal tunnel decompression: a comparison of two techniques	2006	update PICO published before 2015, captured in 2016
Borisch, N.; Haussmann, P.	Neurophysiological recovery after open carpal tunnel decompression: comparison of simple decompression and decompression with epineurotomy	2003	update PICO published before 2015, captured in 2016
Atherton, W. G.; Faraj, A. A.; Riddick, A. C.; Davis, T. R.	Follow-up after carpal tunnel decompression - general practitioner surgery or hand clinic? A randomized prospective study	1999	Comparing site of follow up visit
Atroshi, I.; Johnsson, R.; Ornstein, E.	Endoscopic carpal tunnel release: prospective assessment of 255 consecutive cases	1997	update PICO published before 2015, captured in 2016
Helm, R. H.; Vaziri, S.	Evaluation of carpal tunnel release using the Knifelight instrument	2003	update PICO published before 2015, captured in 2016
Vossinakis, I. C.; Stavroulaki, P.; Paleochorlidis, I.; Badras, L. S.	Reducing the pain associated with local anaesthetic infiltration for open carpal tunnel decompression	2004	Pre-op intervention/post-op pain management; No unique comparison group
Diaz-Abele, J.; Luc, M.; Dyachenko, A.; Aldekhayel, S.; Ciampi, A.; McCusker, J.	Lidocaine With Epinephrine Versus Bupivacaine With Epinephrine as Local Anesthetic Agents in Wide-Awake Hand Surgery: A Pilot Outcome Study of Patient's Pain Perception	2020	irrelevant comparison: regional vs. regional
Benavent, K. A.; Altschul, N. D.; Lincoln, L. F.; Chruscielski, C. M.; Kennedy, K. F.; Earp, B. E.	Patient Satisfaction and Opioid Use With a Postoperative Opioid Protocol After Common Hand Procedures	2020	not all cases had CTS (only 43% CTS patients)
Bowers, E. M. R.; Como, C. J.; Dooley, S. W.; Morales- Restrepo, A.; Fowler, J. R.	Magnetic Resonance Imaging–Measured Cross-Sectional Area of the Median Nerve	2022	does not answer pico question
Smith, W. R.; Hirsch, D. C.; Osei-Hwedieh, D. O.; Goitz, R. J.; Fowler, J.	A Comparison of Changes in Median Nerve Cross-sectional Area Between Endoscopic and Mini-Open Carpal Tunnel Release	2020	(<3 months); 6 wk follow up after surgery
Ly, T. V.; Urban, V.; Meuli-Simmen, C.; Pasternak, I.	Endoscopic Carpal Tunnel Release Using Wide-Awake Anesthesia	2020	no comparison group



Authors	Article Title	Year	Reason for Exclusion
Cunningham, D. J.; Baumgartner, R. E.; Federer, A. E.; Richard, M. J.; Mithani, S. K.	Matched Cohort Study of Wound-Healing Complications in Patients With and Without Diabetes Mellitus After Primary Open Carpal Tunnel Release	2019	irrelevant comparison: with DM vs. no DM
Gupta, A.; Rawal, N.; Magnuson, A.; Alnehill, H.; Pettersson, K.	Patient controlled regional analgesia after carpal tunnel release: a double-blind study using distal perineural catheters	2011	update PICO published before 2015, captured in 2016, Irrelevant Comparison
Lu, Y.; Meng, Z.; Pan, X.; Qin, L.; Wang, G.	Value of high-frequency ultrasound in diagnosing carpal tunnel syndrome	2015	irrelevant comparison
Baysal, O.; Altay, Z.; Ozcan, C.; Ertem, K.; Yologlu, S.; Kayhan, A.	Comparison of three conservative treatment protocols in carpal tunnel syndrome	2006	update PICO published before 2015, captured in 2016
Binder, H.; Zadra, A.; Popp, D.; Komjati, M.; Tiefenboeck, T. M.	Outcome of surgical treated isolated pronator teres syndromes—A retrospective cohort study and complete review of the literature	2022	Systematic review; not relevant
Chen, S. R.; Ho, T. Y.; Shen, Y. P.; Li, T. Y.; Su, Y. C.; Lam, K. H. S.; Chen, L. C.; Wu, Y. T.	Comparison of short- and long-axis nerve hydrodissection for carpal tunnel syndrome: A prospective randomized, single-blind trial	2021	irrelevant comparison
Ho, T. Y.; Chen, S. R.; Li, T. Y.; Li, C. Y.; Lam, K. H. S.; Chen, L. C.; Md, Y. W.	Prognostic factors in carpal tunnel syndrome treated with 5% dextrose perineural injection: A retrospective study	2021	No comparison group
Yilmaz, N.; Akdemir, G.; Gezici, A. R.; Basmaci, M.; Ergungor, M. F.; Asalanturk, Y.; Beskonakli, E.; Ucar, D.	Electrophysiological and clinical assessment of response to surgery in carpal tunnel	2010	update PICO published before 2015, captured in 2016, Irrelevant Comparison
Zwolinska, J.; Kwolek, A.	Factors determining the effectiveness of conservative treatment in patients with carpal tunnel syndrome	2019	irrelevant comparison
Oropeza-Duarte, C.; Ramos-Maciel, J.; Naranjo-Hernandez, J. D.; Villarreal-Salgado, J. L.; Torres-Salazar, Q. L.	Effectiveness of mini-transverse incision versus traditional reduced technique in the treatment of carpal tunnel syndrome. A prospective cohort study	2021	Sample sizes too small, <10
Ibrahim, T.; Majid, I.; Clarke, M.; Kershaw, C. J.	Outcome of carpal tunnel decompression: the influence of age, gender, and occupation	2009	update PICO published before 2015, captured in 2016, repetitive work
Jimenez-Del-Barrio, S.; Cadellans-Arroniz, A.; Ceballos-Laita, L.; Estebanez-de-Miguel, E.; Lopez-de-Celis, C.; Bueno-Gracia, E.; Perez-Bellmunt, A.	The effectiveness of manual therapy on pain, physical function, and nerve conduction studies in carpal tunnel syndrome patients: a systematic review and meta-analysis	2022	systematic review; bib review complete

Authors	Article Title	Year	Reason for Exclusion
Fitzpatrick, D. C.; Jebson, P. J.; Madey, S. M.; Steyers, C. M.	Upper extremity musculoskeletal manifestations of dialysis-associated amyloidosis	1996	narrative review
Gulsen, I.; Ak, H.; Evcili, G.; Balbaloglu, O.; Sosuncu, E.	A Retrospective Comparison of Conventional versus Transverse Mini-Incision Technique for Carpal Tunnel Release	2013	update PICO published before 2015, captured in 2016, unknown follow-up length
Ivie, C. S.; Viscomi, C. M.; Adams, D. C.; Friend, A. F.; Murphy, T. R.; Parker, C.	Clonidine as an adjunct to intravenous regional anesthesia: A randomized, double-blind, placebo-controlled dose ranging study	2011	update PICO published before 2015, captured in 2016, Irrelevant Comparison
Mariano, E. R.; Lehr, M. K.; Loland, V. J.; Bishop, M. L.	Choice of loco-regional anesthetic technique affects operating room efficiency for carpal tunnel release	2013	update PICO published before 2015, captured in 2016, Irrelevant Comparison
Forward, D. P.; Singh, A. K.; Lawrence, T. M.; Sithole, J. S.; Davis, T. R.; Oni, J. A.	Preservation of the ulnar bursa within the carpal tunnel: does it improve the outcome of carpal tunnel surgery? A randomized, controlled trial	2006	update PICO published before 2015, captured in 2016
Okutsu, I.; Ninomiya, S.; Hamanaka, I.; Kuroshima, N.; Inanami, H.	Measurement of pressure in the carpal canal before and after endoscopic management of carpal tunnel syndrome	1989	update PICO published before 2015, captured in 2016
Meder, M. A.; Amtage, F.; Lange, R.; Rijntjes, M.	Reliability of the Infraspinus Test in Carpal Tunnel Syndrome: A Clinical Study	2017	Irrelevant comparison: symptoms of CTS vs healthy control (no symptoms)
Walsh, M. E.; French, H. P.; Wallace, E.; Madden, S.; King, P.; Fahey, T.; Galvin, R.	Existing validated clinical prediction rules for predicting response to physiotherapy interventions for musculoskeletal conditions have limited clinical value: A systematic review	2021	systematic review; bib review complete
Osiak, K.; Mazurek, A.; Pekala, P.; Koziej, M.; Walocha, J. A.; Pasternak, A.	Electrodiagnostic Studies in the Surgical Treatment of Carpal Tunnel Syndrome-A Systematic Review	2021	systematic review; bib review complete
Osiak, K.; Mazurek, A.; Pekala, P.; Koziej, M.; Walocha, J. A.; Pasternak, A.	Electrodiagnostic studies in the surgical treatment of carpal tunnel syndrome—a systematic review	2021	Systematic review; bib review completed
Martin, M. J.; Cartwright, M. S.	A Pilot Study of Strain Elastography in the Diagnosis of Carpal Tunnel Syndrome	2017	Irrelevant comparison: comparison group consists of healthy controls without CTS
Kumar, P.; Gaurav, A.; Rajnish, R. K.; Sharma, S.; Kumar, V.; Aggarwal, S.; Patel, S.	Applications of thermal imaging with infrared thermography in Orthopaedics	2022	systematic review; bib review complete
Anusitviwat, C.; Suwanno, P.; Suwannaphisit, S.	The effects of vitamin D supplementation in carpal tunnel syndrome treatment outcomes: a systematic review	2021	systematic review; bib review complete
Alter, T. H.; Ilyas, A. M.	A Prospective Randomized Study Analyzing Preoperative Opioid Counseling in Pain Management After Carpal Tunnel Release Surgery	2017	Irrelevant comparison: counseling vs no counseling; only 3 day f/u
Billig, J. I.; Sears, E. D.; Gunaseelan, V.; Santosa, K. B.; Iwashyna, T. J.; Englesbe, M. J.;	Inappropriate Preoperative Gabapentinoid Use Among Patients With Carpal Tunnel Syndrome	2020	no outcomes of interest

Authors	Article Title	Year	Reason for Exclusion
Brummett, C. M.; Waljee, J. F.			
Jazayeri, S. M.; Azizi, S.; Moghtaderi, A. R.	Autologous blood injection in carpal tunnel syndrome (CTS)	2009	update PICO published before 2015, captured in 2016, no comparison group
Karadag, Y. S.; Golgeleyen, D.; Saka, M.; Bilen, S.; Oztekin, N.; Ak, F.	Referral diagnosis versus electroneurophysiological findings-three years experience from a tertiary hospital	2014	update PICO published before 2015, captured in 2016
Papier, K.; Knuppel, A.; Perez-Cornago, A.; Watts, E. L.; Tong, T. Y. N.; Schmidt, J. A.; Allen, N.; Key, T. J.; Travis, R. C.	Circulating insulin-like growth factor-I and risk of 25 common conditions: outcome-wide analyses in the UK Biobank study	2022	Irrelevant topic: outcome wide analysis of insulin-like growth factor-I
Paoloni, M.; Tavernese, E.; Cacchio, A.; D'Orazi, V.; Ioppolo, F.; Fini, M.; Santilli, V.; Mangone, M.	Extracorporeal shock wave therapy and ultrasound therapy improve pain and function in patients with carpal tunnel syndrome. A randomized controlled trial	2015	Sample size >10 per group
Vahed, L. K.; Arianpur, A.; Gharedaghi, M.; Rezaei, H.	Ultrasound as a diagnostic tool in the investigation of patients with carpal tunnel syndrome	2018	Patient population; Sample size >10 per group
Gruber, L.; van Holsbeeck, M. T.; Khoury, V.; Deml, C.; Gabl, M. F.; Jaschke, W.; Klauser, A. S.	Compliance assessment and flip-angle measurement of the median nerve: sonographic tools for carpal tunnel syndrome assessment?	2019	control group included in sensitivity analysis
Xiang, A.; Cheng, K.; Shen, X.; Xu, P.; Liu, S.	The Immediate Analgesic Effect of Acupuncture for Pain: A Systematic Review and Meta-Analysis	2017	Systematic review; bib review completed
Banach, M.; Ferens, A.; Antczak, J.; Gribbin, D.	Lumbrical-interosseous latency comparison test as a highly sensitive tool in diagnosing mild and severe carpal tunnel syndrome	2015	Original language not English
Craw, J. R.; Church, D. J.; Hutchison, R. L.	Prospective comparison of the six-item carpal tunnel symptoms scale and portable nerve conduction testing in measuring the outcomes of treatment of carpal tunnel syndrome with steroid injection	2015	no comparison group
Lo, I. N.; Hsu, P. C.; Huang, Y. C.; Yeh, C. K.; Yang, Y. C.; Wang, J. C.	Dynamic Ultrasound Assessment of Median Nerve Mobility Changes Following Corticosteroid Injection and Carpal Tunnel Release in Patients With Carpal Tunnel Syndrome	2021	Irrelevant comparison: op vs nonop CTS
Buntragulpoontawee, M.; Chang, K. V.; Vitoonpong, T.; Pornjaksawan, S.; Kitisak, K.; Saokaew, S.; Kanchanasurakit, S.	The Effectiveness and Safety of Commonly Used Injectates for Ultrasound-Guided Hydrodissection Treatment of Peripheral Nerve Entrapment Syndromes: A Systematic Review	2020	systematic review; bib review complete
Li, Q. Y.; Cai, F. H.; Lu, Y.; Liu, H.; Wang, X.; Li, F. L.; Shi, J.	External Treatment With Chinese Herbal Medicine for Chemotherapy-Induced Peripheral Neuropathy: A Systematic Review and Meta-Analysis	2022	systematic review; bib review complete
Olde Dubbelink, T. B. G.; De Kleermaeker,	Wrist Circumference-Dependent Upper Limit of Normal for the Cross-Sectional Area Is Superior Over	2021	No comparison group - only US done on 175 patients

Authors	Article Title	Year	Reason for Exclusion
Fgcm; Beekman, R.; Wijnjtjes, J.; Bartels, Rhma; Meulstee, J.; Verhagen, W. I. M.	a Fixed Cut-Off Value in Confirming the Clinical Diagnosis of Carpal Tunnel Syndrome		
Olde Dubbelink, T. B. G.; De Kleermaeker, Fgcm; Meulstee, J.; Bartels, Rhma; Claes, F.; Verhagen, W. I. M.	Augmented Diagnostic Accuracy of Ultrasonography for Diagnosing Carpal Tunnel Syndrome Using an Optimised Wrist Circumference-Dependent Cross-Sectional Area Equation	2020	Irrelevant comparison: already diagnosed CTS patients vs healthy controls
Chang, C. Y.; Beduschi, M. G.; Pacheco, T. A.; de, M. Chang C. C.	Carpal Tunnel Syndrome: Retrospective Analysis of 60 Consecutive Cases of Ambulatory Surgical Treatment With Local Anesthesia	2020	very low quality
Davison, P. G.; Cobb, T.; Lalonde, D. H.	The patient's perspective on carpal tunnel surgery related to the type of anesthesia: a prospective cohort study	2013	update PICO published before 2015, captured in 2016, relevant to 2022
Demino, C.; Fowler, J. R.	The Sensitivity and Specificity of Nerve Conduction Studies for Diagnosis of Carpal Tunnel Syndrome: A Systematic Review	2021	systematic review; bib review complete
Dunn, J. C.; Kusnezov, N. A.; Koehler, L. R.; Vanden Berge, D.; Genco, B.; Mitchell, J.; Orr, J. D.; Pallis, M.	Outcomes Following Carpal Tunnel Release in Patients Receiving Workers' Compensation: A Systematic Review	2018	Systematic review; bib review completed
Green, D. P.; MacKay, B. J.; Seiler, S. J.; Fry, M. T.	Accuracy of Carpal Tunnel Injection: A Prospective Evaluation of 756 Patients	2020	no outcomes of interest
Gause, T. M., 2nd; Nunnery, J. J.; Chhabra, A. B.; Werner, B. C.	Perioperative Narcotic Use and Carpal Tunnel Release: Trends, Risk Factors, and Complications	2020	Irrelevant topic: perioperative narcotic use
Fried, S. M.; Nazarian, L. N.	Ultrasound-Guided Hydroneurolysis of the Median Nerve for Recurrent Carpal Tunnel Syndrome	2019	not a clinical study
Jenkins, P. J.; Duckworth, A. D.; Watts, A. C.; McEachan, J. E.	Corticosteroid injection for carpal tunnel syndrome: a 5-year survivorship analysis	2012	update PICO published before 2015, captured in 2016, Irrelevant Comparison
Leblanc, M. R.; Lalonde, D. H.; Thoma, A.; Bell, M.; Wells, N.; Allen, M.; Chang, P.; McKee, D.; Lalonde, J.	Is main operating room sterility really necessary in carpal tunnel surgery? A multicenter prospective study of minor procedure room field sterility surgery	2011	no comparison group
Mansfield, M.; Thacker, M.; Sandford, F.	Psychosocial Risk Factors and the Association With Carpal Tunnel Syndrome: A Systematic Review	2018	Systematic review; bib review completed
Shi, Q.; Bobos, P.; Lalone, E. A.; Warren, L.; MacDermid, J. C.	Comparison of the Short-Term and Long-Term Effects of Surgery and Nonsurgical Intervention in Treating Carpal Tunnel Syndrome: A Systematic Review and Meta-Analysis	2020	Systematic review; bib review complete
Zhang, D.; Blazar, P.; Earp, B. E.	Rates of Complications and Secondary Surgeries of Mini-Open Carpal Tunnel Release	2019	medical records review

Authors	Article Title	Year	Reason for Exclusion
Yoshida, A.; Okutsu, I.; Hamanaka, I.; Motomura, T.	Results of endoscopic management of primary versus recurrent carpal tunnel syndrome in long-term haemodialysis patients	2004	update PICO published before 2015, captured in 2016, Irrelevant Comparison
Chu, M. M.; Chan, J.; Chan, C. C.	Predicting outcomes of conservative treatment for patients with carpal tunnel syndrome: Group- and individual-based rehabilitation	2021	No comparison group: patients moved to stage 2 if they completed stage 1
Klokkari, D.; Mamais, I.	Effectiveness of surgical versus conservative treatment for carpal tunnel syndrome: A systematic review, meta-analysis and qualitative analysis	2018	Systematic review; bib review complete
Papadopoulou, M.; Tsigvoulis, G.; Chatzi, I.; Palaiodimou, L.; Bregianni, M.; Voumvourakis, K.; Michopoulos, I.	Association of Psychometric Indices and Normal Electrodiagnostic Studies in Referral for Suspected Carpal Tunnel Syndrome	2021	Irrelevant comparison. Psychometric indices and their association to EDX
Freshwater, M. F.; Arons, M. S.	The effect of various adjuncts on the surgical treatment of carpal tunnel syndrome secondary to chronic tenosynovitis	1978	update PICO published before 2015, captured in 2016
Mason, W.; Ryan, D.; Khan, A.; Kerr, H. L.; Beard, D.; Cook, J.; Rombach, I.; Cooper, C.	Injection versus Decompression for Carpal Tunnel Syndrome-Pilot trial (INDICATE-P)-protocol for a randomised feasibility study	2017	protocol for a study, not actual
Liu, F.; Watson, H. K.; Carlson, L.; Lown, I.; Wollstein, R.	Use of quantitative abductor pollicis brevis strength testing in patients with carpal tunnel syndrome	2007	update PICO published before 2015, captured in 2016, no comparison group
Huynh, M. N. Q.; Karir, A.; Bennett, A.	Scratch Collapse Test for Carpal Tunnel Syndrome: A Systematic Review and Meta-analysis	2018	systematic review; bib review complete
Iqbal, S. A.; Hayton, M. J.; Watson, J. S.; Szczypa, P.; Bayat, A.	First identification of resident and circulating fibrocytes in Dupuytren's disease shown to be inhibited by serum amyloid P and Xiapex	2014	Irrelevant topic; patient population
Han, S. W.; Cheon, K. Y.; Kim, J. Y.; Baik, J. S.	Carpal Tunnel Syndrome in Patients with Tremor Dominant Parkinson's Disease	2015	Irrelevant topic; patient population
Healy, A.; Farmer, S.; Pandyan, A.; Chockalingam, N.	A systematic review of randomised controlled trials assessing effectiveness of prosthetic and orthotic interventions	2018	Systematic review; bib review completed
Saleh, E.; Saleh, J.; Govshievich, A.; Ferland-Caron, G.; Lin, J. C.; Tremblay, D. M.	Comparing Minor Hand Procedures Performed with or without the Use of a Tourniquet: A Randomized Controlled Trial	2021	Irrelevant comparison: tourniquet vs no tourniquet
Henry, B. M.; Zwinczewska, H.; Roy, J.; Vikse, J.; Ramakrishnan, P. K.; Walocha, J. A.; Tomaszewski, K. A.	The prevalence of anatomical variations of the median nerve in the carpal tunnel: A systematic review and meta-analysis	2015	Systematic review; not relevant
Vasiliadis, H. S.; Nikolakopoulou, A.; Shrier, I.; Lunn, M. P.; Brassington, R.; Scholten, R. J.; Salanti, G.	Endoscopic and Open Release Similarly Safe for the Treatment of Carpal Tunnel Syndrome. A Systematic Review and Meta-Analysis	2015	Systematic review; bib review complete
Lai, S.; Zhang, K.; Li, J.; Fu, W.	Carpal tunnel release with versus without flexor retinaculum reconstruction for carpal tunnel	2019	Systematic review; bib review complete

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	syndrome at short- and long-term follow up-A meta-analysis of randomized controlled trials		
Kuo, T. T.; Lee, M. R.; Liao, Y. Y.; Chen, J. P.; Hsu, Y. W.; Yeh, C. K.	Assessment of Median Nerve Mobility by Ultrasound Dynamic Imaging for Diagnosing Carpal Tunnel Syndrome	2016	comparison does not fit PICO intervention; population does not fit PICO
Zakrzewski, J.; Zakrzewska, K.; Pluta, K.; Nowak, O.; Miloszewska-Paluch, A.	Ultrasound elastography in the evaluation of peripheral neuropathies: a systematic review of the literature	2019	Systematic review; bib review complete
Mohammadi, A.; Afshar, A.; Mirza-Aghazadeh-Attari, M.; Mokhtari, S. A. S.	Application of shear wave elastography and median nerve cross-section area in the diagnosis and staging of carpal tunnel syndrome: a case-control study	2021	Irrelevant topic; study group made of patients with definite diagnosis of CTS already & health control group
Wolny, T.; Linek, P.	Long-term patient observation after conservative treatment of carpal tunnel syndrome: a summary of two randomised controlled trials	2019	Review article (comparison of two separate articles)
Lin, C. P.; Chang, K. V.; Huang, Y. K.; Wu, W. T.; Ozcakar, L.	Regenerative Injections Including 5% Dextrose and Platelet-Rich Plasma for the Treatment of Carpal Tunnel Syndrome: A Systematic Review and Network Meta-Analysis	2020	systematic review; bib review complete
Roberts, M.; Brodribb, W.; Mitchell, G.	Reducing the Pain: A Systematic Review of Postdischarge Analgesia Following Elective Orthopedic Surgery	2012	Systematic review; bib review completed
Lenoir, D.; Willaert, W.; Coppieters, I.; Malfliet, A.; Ickmans, K.; Nijs, J.; Vonck, K.; Meeus, M.; Cagnie, B.	Electroencephalography During Nociceptive Stimulation in Chronic Pain Patients: A Systematic Review	2020	systematic review; bib review complete
Okutsu, I.; Hamanaka, I.; Ninomiya, S.; Takatori, Y.; Shimizu, K.; Ugawa, Y.	Results of endoscopic management of carpal-tunnel syndrome in long-term haemodialysis versus idiopathic patients	1993	update PICO published before 2015, captured in 2016
Malahias, M. A.; Johnson, E. O.; Babis, G. C.; Nikolaou, V. S.	Single injection of platelet-rich plasma as a novel treatment of carpal tunnel syndrome	2015	no comparison group
Yusupova, D. G.; Zimin, A. A.; Grishina, D. A.; Belova, N. V.; Vershinin, A. V.; Arestov, S. O.; Kozlova, A. V.; Druina, L. D.; Chechetkin, A. O.; Gouscha, A. O.; et al.,	Carpal tunnel syndrome: assessment of the need for rehabilitation and recovery treatment after endoscopic decompression of the median nerve in the late and long-term postoperative periods	2019	Article not in English; only abstract is in English
Jimenez Del Barrio, S.; Bueno Gracia, E.; Hidalgo Garcia, C.; Estebanez de Miguel, E.; Tricas Moreno, J. M.; Rodriguez Marco, S.; Ceballos Laita, L.	Conservative treatment in patients with mild to moderate carpal tunnel syndrome: A systematic review	2018	Systematic review; bib review completed

Authors	Article Title	Year	Reason for Exclusion
Iida, J.; Hirabayashi, H.; Nakase, H.; Sakaki, T.	Carpal tunnel syndrome: electrophysiological grading and surgical results by minimum incision open carpal tunnel release	2008	update PICO published before 2015, captured in 2016, Irrelevant Comparison
Nanno, M.; Koderu, N.; Tomori, Y.; Hagiwara, Y.; Takai, S.	Electrophysiological Assessment for Splinting in the Treatment of Carpal Tunnel Syndrome	2017	No comparison group
Hui, A. C.; Wong, S.; Leung, C. H.; Tong, P.; Mok, V.; Poon, D.; Li-Tsang, C. W.; Wong, L. K.; Boet, R.	A randomized controlled trial of surgery vs steroid injection for carpal tunnel syndrome	2005	Non-operative vs. Operative
Karam, C.; Dimitrova, D.; Christ, M.; Heitner, S. B.	Carpal tunnel syndrome and associated symptoms as first manifestation of hATTR amyloidosis	2019	Irrelevant topic: prevalence of CTS in patients with hATTR amyloidosis
Jaeschke, R.; Thoirs, K.; Bain, G.; Massy-Westropp, N.	Systematic review: hand activity and ultrasound of the median nerve	2017	Systematic review; bib review complete
Zaki, M.; Ali, M.; Yousef, W.; Ezzat, W.; Basha, W.	Age and body anthropometry as predicting factors for carpal tunnel syndrome among egyptian obese women	2020	does not answer pico question
Ratzon, N.; Schejter-Margalit, T.; Froom, P.	Time to return to work and surgeons' recommendations after carpal tunnel release	2006	update PICO published before 2015, captured in 2016
Stirling, P. H. C.; Jenkins, P. J.; Clement, N. D.; Duckworth, A. D.; McEachan, J. E.	Occupation classification predicts return to work after carpal tunnel decompression	2020	treatment method not specified
Shapiro, S.	Microsurgical carpal tunnel release	1995	update PICO published before 2015, captured in 2016
Hwang, P. Y.; Ho, C. L.	Minimally invasive carpal tunnel decompression using the Knifelight	2007	update PICO published before 2015, captured in 2016, no comparison group
Shapiro, S.	Microsurgical carpal tunnel release	1997	update PICO published before 2015, captured in 2016
Takata, S. C.; Kysh, L.; Mack, W. J.; Roll, S. C.	Sonographic reference values of median nerve cross-sectional area: a protocol for a systematic review and meta-analysis	2019	Systematic review; bib review complete
Mollestad, K.; Englund, M.; Atroshi, I.	Association of clinically relevant carpal tunnel syndrome with type of work and level of education: a general-population study	2021	Irrelevant comparison: type of work not broken down to fit pico 2
Moon, H.; Lee, B. J.; Park, D.	Change to movement and morphology of the median nerve resulting from steroid injection in patients with mild carpal tunnel syndrome	2020	Follow up criteria not met; f/u only 2 weeks
Park, D.; Kim, B. H.; Lee, S. E.; Kim, D. Y.; Eom, Y. S.; Cho, J. M.; Yang, J. W.; Kim, M.; Kwon, H. D.; Lee, J. W.	Application of digital infrared thermography for carpal tunnel syndrome evaluation	2021	Irrelevant comparison: already diagnosed CTS patients vs healthy controls
Rojoa, D.; Raheman, F.; Rassam, J.; Wade, R. G.	Meta-analysis of the normal diffusion tensor imaging values of the median nerve and how they change in carpal tunnel syndrome	2021	systematic review; bib review complete
Bobowik, P. Z.	Effectiveness of physiotherapy in carpal tunnel syndrome (CTS)	2019	Systematic review; bib review completed

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Burke, F. D.; Bradley, M. J.; Sinha, S.; Wilgis, E. F.; Dubin, N. H.	Primary care management of patients with carpal tunnel syndrome referred to surgeons: are non-operative interventions effectively utilised?	2007	update PICO published before 2015, captured in 2016, Irrelevant Comparison
Gupta, A.; Bjornsson, A.; Sjoberg, F.; Bengtsson, M.	Lack of peripheral analgesic effect of low-dose morphine during intravenous regional anesthesia	1993	IVRA vs. IVRA
Estebe, J. P.; Gentili, M. E.; Langlois, G.; Moulleron, P.; Bernard, F.; Ecoffey, C.	Lidocaine priming reduces tourniquet pain during intravenous regional anesthesia: A preliminary study	2003	Doesn't answer PICO question
Li, T. Y.; Chen, S. R.; Shen, Y. P.; Chang, C. Y.; Su, Y. C.; Chen, L. C.; Wu, Y. T.	Long-term outcome after perineural injection with 5% dextrose for carpal tunnel syndrome: a retrospective follow-up study	2021	No comparison group - all patients received ultrasound-guided PIT with D5W
Dakowicz, A.; Latosiewicz, R.	The value of iontophoresis combined with ultrasound in patients with the carpal tunnel syndrome	2005	update PICO published before 2015, captured in 2016
Macaire, P.; Choquet, O.; Jochum, D.; Travers, V.; Capdevila, X.	Nerve blocks at the wrist for carpal tunnel release revisited: the use of sensory-nerve and motor-nerve stimulation techniques	2005	update PICO published before 2015, captured in 2016
Paiva Filho, H. R.; Costa, A. C.; Paiva, V. G. N.; Santos, D. A.; Chakkour, I.	Is there an association between the Hand Diagram and Electrodiagnostic Testing for Carpal Tunnel Syndrome?	2021	Irrelevant comparison: HDP vs ENMG
Paiva Filho, H. R.; Elias, B. A. B.; Salomao Junior, M. S. B.; Paiva, V. G. N.; Oliveira, E. F.; Rocha, M. A.	Is there an association between electroneuromyography and ultrasound in the diagnosis of carpal tunnel syndrome?	2021	Spanish version - requested English version from Tyler
da Costa, V. V.; de Oliveira, S. B.; Fernandes Mdo, C.; Saraiva, R. A.	Incidence of regional pain syndrome after carpal tunnel release. Is there a correlation with the anesthetic technique?	2011	update PICO published before 2015, captured in 2016, relevant to 2022
Fernandes, M.; Belloti, J. C.; Okamura, A.; Raduan Neto, J.; Tajiri, R.; Faloppa, F.; Moraes, V. Y.	Onset of Trigger Finger after Carpal Tunnel Syndrome Surgery: Assessment of Open and Endoscopic Techniques	2021	Case series with non-consecutive enrollment of participants
Moharrami, M.; Nazari, B.; Anvari, H. M.	Do the symptoms of carpal tunnel syndrome improve following the use of Kinesio tape?	2021	Systematic review; bib review completed
Oh, H. M.; Chung, M. E.	Botulinum toxin for neuropathic pain: A review of the literature	2015	Systematic review; bib review completed
Singjam, A.; Charoentanyarak, K.; Saengsuwan, J.	Prevalence and predictive factors for bilateral carpal tunnel syndrome by electrodiagnosis: A retrospective study	2021	No comparison group and patients already diagnosed with CTS
Pertea, M.; Ursu, S.; Veliceasa, B.; Grosu, O. M.; Velenciuc, N.; Lunca, S.	Value of ultrasonography in the diagnosis of carpal tunnel syndrome-a new ultrasonographic index in carpal tunnel syndrome diagnosis: A clinical study	2020	irrelevant comparison



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Atroshi, I.; Tadjerbashi, K.; McCabe, S. J.; Ranstam, J.	Treatment of carpal tunnel syndrome with wrist splinting: study protocol for a randomized placebo-controlled trial	2019	not a clinical study, protocol for future study
Curran, M. W.; Olson, J.; Morhart, M.; Sample, D.; Chan, K. M.	Acetyl-L-carnitine (ALCAR) to enhance nerve regeneration in carpal tunnel syndrome: study protocol for a randomized, placebo-controlled trial	2016	Study protocol; experiment not yet performed.
Dimitrova, A.; Murchison, C.; Oken, B.	Local effects of acupuncture on the median and ulnar nerves in patients with carpal tunnel syndrome: a pilot mechanistic study protocol	2019	protocol for a study, not actual
Ertikin, A.; Argun, G.; Misirlioglu, M.; Aydin, M.; Arikan, M.; Kadiogullari, N.	Comparison Between the Two-Injection Technique and the Four-Injection Technique in Axillary Brachial Plexus Block with Articaine	2017	local v local
Yilmaz, F.; Gunduz, O. H.; Akyuz, G.	Lumbrical-interosseous recording technique versus routine electrodiagnostic methods in the diagnosis of carpal tunnel syndrome	2017	Irrelevant comparison
Duymaz, T.; Sindel, D.; Kesiktas, N.; Müslümanoğlu, L.	Efficacy of some combined conservative methods in the treatment of carpal tunnel syndrome: A randomized controlled clinical and electrophysiological trial	2012	update PICO published before 2015, captured in 2016
Uygur, F.; Sever, C.; Yuksel, F.	Comparing the results of limited incision technique and standard longitudinal incision technique for carpal tunnel decompression by numerical grading system	2009	update PICO published before 2015, captured in 2016, relevant to 2022
Martic, V.	Concordance of clinical and neurophysiologic diagnoses of carpal tunnel syndrome	2015	irrelevant comparison: clinical diagnosis vs. neurophysiologic diagnosis
Badger, S. A.; O'Donnell, M. E.; Sherigar, J. M.; Connolly, P.; Spence, R. A.	Open carpal tunnel release--still a safe and effective operation	2008	update PICO published before 2015, captured in 2016, no comparison group
Badger, S. A.; O'Donnell, M. E.; Sherigar, J. M.; Connolly, P.; Spence, R. A. J.	Open Carpal tunnel release - Still a safe and effective operation	2008	update PICO published before 2015, captured in 2016
Hankins, C. L.; Brown, M. G.; Lopez, R. A.; Lee, A. K.; Dang, J.; Harper, R. D.	A 12-year experience using the Brown two-portal endoscopic procedure of transverse carpal ligament release in 14,722 patients: defining a new paradigm in the treatment of carpal tunnel syndrome	2007	update PICO published before 2015, captured in 2016, no comparison group
Chandra, P. S.; Singh, P. K.; Goyal, V.; Chauhan, A. K.; Thakkur, N.; Tripathi, M.	Early versus delayed endoscopic surgery for carpal tunnel syndrome: prospective randomized study	2013	update PICO published before 2015, captured in 2016, Irrelevant Comparison
Romeo, P.; d'Agostino, M. C.; Lazzerini, A.; Sansone, V. C.	Extracorporeal shock wave therapy in pillar pain after carpal tunnel release: a preliminary study	2011	no comparison group
Nageeb, R. S.; Shehta, N.; Nageeb, G. S.; Omran, A. A.	Body mass index and vitamin D level in carpal tunnel syndrome patients	2018	Irrelevant topic: comparing vit d and BMI levels in CTS vs control group

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Tawfeek, A. A.; Nawito, A. M.; Azmy, R. M.; Hassan, A.; Afifi, L. M.; Elkholly, S. H.	Role of concentric needle Single Fiber Electromyography in detection of subclinical motor involvement in carpal tunnel syndrome	2018	No comparison group to EMG
Rashad, U. M.; Kishk, N. A.; Mansour, W. T.; Nawito, A. M.; Khalil, A. S.; Helmy, H.; Zayed, T. K.	Effect of extracorporeal shock wave therapy on different severities of carpal tunnel syndrome	2020	irrelevant comparison: effects of shockwave on mild vs moderate vs severe CTS
Allam, A. F. A.; Sadek, A. F.; AbuSamra, M. F.; Ismail, A. H.; Allam, M. F. A. B.	The correlation between pre-operative ultrasonographic median nerve evaluation and the operative procedure in CTS	2020	irrelevant comparison
Ahmed, A. M.; Hassan, O. G.; Khalifa, A. A.	Gabapentin as an adjuvant therapy to splinting in carpal tunnel syndrome (CTS): a systematic review and meta-analysis of randomized controlled trials	2020	Systematic review; bib review completed
Albers, J. W.; Jacobson, R.	Decompression nerve surgery for diabetic neuropathy: A structured review of published clinical trials	2018	Systematic review; bib review completed
Naam, N. H.	CORR Insights®: Responsiveness of the PROMIS and its Concurrent Validity with Other Region- And Condition-specific PROMs in Patients Undergoing Carpal Tunnel Release	2019	narrative review
Sayegh, E. T.; Strauch, R. J.	Open versus endoscopic carpal tunnel release: a meta-analysis of randomized controlled trials	2015	Systematic review; bib review completed
Piazzini, D. B.; Aprile, I.; Ferrara, P. E.; Bertolini, C.; Tonali, P.; Maggi, L.; Rabini, A.; Piantelli, S.; Padua, L.	A systematic review of conservative treatment of carpal tunnel syndrome	2007	Systematic review; bib review completed
Kim, J. K.; Koh, Y. D.; Kim, J. O.; Choi, S. W.	Changes in Clinical Symptoms, Functions, and the Median Nerve Cross-Sectional Area at the Carpal Tunnel Inlet after Open Carpal Tunnel Release	2016	case series; no comparison group
O'Connor, D.; Marshall, S.; Massy-Westropp, N.	Non-surgical treatment (other than steroid injection) for carpal tunnel syndrome	2003	Systematic review; bib review completed
Page, M. J.; O'Connor, D.; Pitt, V.; Massy-Westropp, N.	Exercise and mobilisation interventions for carpal tunnel syndrome	2012	Systematic review; bib review completed
Page, M. J.; O'Connor, D.; Pitt, V.; Massy-Westropp, N.	Therapeutic ultrasound for carpal tunnel syndrome	2013	Systematic review; bib review completed
Wade, R. G.; Wormald, J. C.; Figus, A.	Absorbable versus non-absorbable sutures for skin closure after carpal tunnel decompression surgery	2018	Systematic review; bib review completed
Farhat, A.; Mughal, S. M.	Is There a Role of Cupping Therapy in the Treatment of Carpal Tunnel Syndrome in Primary Care Setting?	2021	Review article
Ghani, R.; Archer, J. E.; Shah, M.	Minimising Tourniquet Time and Post-operative Pain During Carpal Tunnel Decompression	2019	intervention method not specified: irrelevant comparison
Vetrano, I. G.; Devigili, G.; Nazzi, V.	Minimally Invasive Carpal Tunnel Release: A Technical Note and a 20-Year Retrospective Series	2022	No comparison group

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Morehouse, H.; Goble, H. M.; Lambert, B. S.; Cole, J.; Holderread, B. M.; Le, J. T.; Siff, T.; McCulloch, P. C.; Lieberman, S. R.	Limb Occlusion Pressure Versus Standard Pneumatic Tourniquet Pressure in Open Carpal Tunnel Surgery - A Randomized Trial	2021	Follow up criteria not met; f/u only 2 months
Uchiyama, S.; Toriumi, H.; Nakagawa, H.; Kamimura, M.; Ishigaki, N.; Miyasaka, T.	Postoperative nerve conduction changes after open and endoscopic carpal tunnel release	2002	update PICO published before 2015, captured in 2016
Nielsen, A.; Wieland, L. S.	Cochrane reviews on acupuncture therapy for pain: A snapshot of the current evidence	2019	Systematic review; bib review completed
Trofa, D. P.; Obana, K. K.; Herndon, C. L.; Noticewala, M. S.; Parisien, R. L.; Popkin, C. A.; Ahmad, C. S.	The Evidence for Common Nonsurgical Modalities in Sports Medicine, Part 1: Kinesio Tape, Sports Massage Therapy, and Acupuncture	2020	retrospective/narrative/literature review
Kasundra, G. M.; Sood, I.; Bhargava, A. N.; Bhushan, B.; Rana, K.; Jangid, H.; Shubhakaran, K.; Pujar, G. S.	Carpal tunnel syndrome: Analyzing efficacy and utility of clinical tests and various diagnostic modalities	2015	Does not fit PICO 1
Alimohammadi, E.; Bagheri, S. R.; Hadidi, H.; Rizevandi, P.; Abdi, A.	Carpal tunnel surgery: predictors of clinical outcomes and patients' satisfaction	2020	no comparison group
Vasiliadis, H. S.; Xenakis, T. A.; Mitsionis, G.; Paschos, N.; Georgoulis, A.	Endoscopic versus open carpal tunnel release	2010	update PICO published before 2015, captured in 2016, relevant to 2022
Mackenzie, D. J.; Hainer, R.; Wheatley, M. J.	Early recovery after endoscopic vs. short-incision open carpal tunnel release	2000	update PICO published before 2015, captured in 2016
Ullah, Ismat	Local steroid injection or carpal tunnel release for carpal tunnel syndrome-which is more effective?	2013	Op vs. Non-Op
Vanti, C.; Bonfiglioli, R.; Calabrese, M.; Marinelli, F.; Guccione, A.; Violante, F. S.; Pillastrini, P.	Upper Limb Neurodynamic Test 1 and symptoms reproduction in carpal tunnel syndrome. A validity study	2011	Upper Limb Neurodynamic Test 1
Paiva, H. R.; Paiva, Vdgn; Oliveira, E. F.; Rocha, M. A.	Profile of Patients with Carpal Tunnel Syndrome Treated at a Referral Service	2020	Irrelevant topic: clinical & epidemiological characteristics of CTS patients
Osterman, A. L.; Whitman, M.; Porta, L. D.	Nonoperative carpal tunnel syndrome treatment	2002	narrative review
Ashworth, N. L.	Carpal tunnel syndrome	2007	systematic review; bib review complete

Authors	Article Title	Year	Reason for Exclusion
Ashworth, N. L.	Carpal tunnel syndrome	2010	Systematic review; bib review completed
Kozak, A.; Schedlbauer, G.; Wirth, T.; Euler, U.; Westermann, C.; Nienhaus, A.	Association between work-related biomechanical risk factors and the occurrence of carpal tunnel syndrome: an overview of systematic reviews and a meta-analysis of current research	2015	Systematic review; bib review complete
Lai, Z. H.; Yang, S. P.; Shen, H. L.; Luo, Y.; Cai, X. H.; Jiang, W. T.; Liao, L. P.; Wu, K. B.; Lv, G. R.	Combination of high-frequency ultrasound and virtual touch tissue imaging and quantification improve the diagnostic efficiency for mild carpal tunnel syndrome	2021	Irrelevant comparison: already diagnosed CTS patients vs healthy controls
Li, M.; Jiang, J.; Zhou, Q.; Zhang, C.	Sonographic follow-up after endoscopic carpal tunnel release for severe carpal tunnel syndrome: a one-year neuroanatomical prospective observational study	2019	no outcomes of interest
Wininger, A. E.; Phelps, B. M.; Le, J. T.; Harris, J. D.; Trachtenberg, B. H.; Liberman, S. R.	Musculoskeletal pathology as an early warning sign of systemic amyloidosis: a systematic review of amyloid deposition and orthopedic surgery	2021	systematic review; bib review complete
Feng, B.; Chen, K.; Zhu, X.; Ip, W. Y.; Andersen, L. L.; Page, P.; Wang, Y.	Prevalence and risk factors of self-reported wrist and hand symptoms and clinically confirmed carpal tunnel syndrome among office workers in China: a cross-sectional study	2021	No comparison group - all participants were office workers.
Li, Y.; Luo, W.; Wu, G.; Cui, S.; Zhang, Z.; Gu, X.	Open versus endoscopic carpal tunnel release: a systematic review and meta-analysis of randomized controlled trials	2020	systematic review; bib review complete
Blom, A. W.; Donovan, R. L.; Beswick, A. D.; Whitehouse, M. R.; Kunutsor, S. K.	Common elective orthopaedic procedures and their clinical effectiveness: umbrella review of level 1 evidence	2021	systematic review; bib review complete
Crevelário De Melo, R.; Victoria Ribeiro, A. Â.; Luquine Jr, C. D.; De Bortoli, M. C.; Toma, T. S.; Barreto, J. O. M.	Effectiveness and safety of yoga to treat chronic and acute pain: A rapid review of systematic reviews	2021	Systematic review; bib review completed
Dammers, J. W.; Veering, M. M.; Vermeulen, M.	Injection with methylprednisolone proximal to the carpal tunnel: randomised double blind trial	1999	update PICO published before 2015, captured in 2016
Sabet, R.; Rahmanian, K.; Jahromi, A. S.; Madani, A.	Effect of Gabapentin on nerve conduction studies in carpal tunnel syndrome	2018	no outcomes of interest
Chang, Y. W.; Chen, C. J.; Wang, Y. W.; Chiu, V.; Lin, S. K.; Horng, Y. S.	Influence of temperature on sonographic images of the median nerve for the diagnosis of carpal tunnel syndrome: a case control study	2021	Irrelevant comparison: already diagnosed CTS patients vs healthy controls
Chen, P. C.; Chuang, C. H.; Tu, Y. K.; Bai, C. H.; Chen, C. F.; Liaw, M.	A Bayesian network meta-analysis: Comparing the clinical effectiveness of local corticosteroid injections using different treatment strategies for carpal tunnel syndrome	2015	Systematic review; bib review complete

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Dabbagh, A.; MacDermid, J. C.; Yong, J.; Packham, T. L.; Macedo, L. G.; Ghodrati, M.	Diagnostic accuracy of sensory and motor tests for the diagnosis of carpal tunnel syndrome: a systematic review	2021	systematic review; bib review complete
Loizides, A.; Honold, S.; Skalla-Oberherber, E.; Gruber, L.; Loscher, W.; Moriggl, B.; Korschake, M.; Gruber, H.	Ultrasound-Guided Minimal Invasive Carpal Tunnel Release: An Optimized Algorithm	2021	No comparison group - all patients underwent US guided CTR
Petrover, D.; Silvera, J.; De Baere, T.; Vigan, M.; Hakime, A.	Percutaneous Ultrasound-Guided Carpal Tunnel Release: Study Upon Clinical Efficacy and Safety	2017	case series; no comparison group
Sutton, D.; Gross, D. P.; Cote, P.; Randhawa, K.; Yu, H.; Wong, J. J.; Stern, P.; Varatharajan, S.; Southerst, D.; Shearer, H. M.; Stupar, M.; Goldgrub, R.; van der Velde, G.; Nordin, M.; Carroll, L. J.; Taylor-Vaisey, A.	Multimodal care for the management of musculoskeletal disorders of the elbow, forearm, wrist and hand: a systematic review by the Ontario Protocol for Traffic Injury Management (OPTIMA) Collaboration	2016	Systematic review; bib review completed
Cupler, Z. A.; Alrwaily, M.; Polakowski, E.; Mathers, K. S.; Schneider, M. J.	Taping for conditions of the musculoskeletal system: An evidence map review	2020	Systematic review; bib review completed
Mardanpour, K.; Rahbar, M.; Mardanpour, S.	Functional Outcomes of 300 Carpal Tunnel Release: 1.5 cm Longitudinal Mini-incision	2019	No comparison group - all patients received CTR with 1.5 cm longitudinal mini-incision technique
Alcan, V.; Zinnuroglu, M.; Kaymak Karatas, G.; Bodofsky, E.	Comparison of Interpolation Methods in the Diagnosis of Carpal Tunnel Syndrome	2018	Irrelevant comparison: suspicion of CTS vs suspicion of CRP
Mathur, J. G.	Carpal tunnel syndrome in general practice	1981	update PICO published before 2015, captured in 2016
Duche, R.; Trabelsi, A.	The Canaletto R TM implant for reconstructing transverse carpal ligament in carpal tunnel surgery. Surgical technique and cohort prospective study about 400 Canaletto cases versus 400 cases with open carpal tunnel surgery	2010	update PICO published before 2015, captured in 2016, follow-up < 3 months
Dong, C.; Sun, Y.; Qi, Y.; Zhu, Y.; Wei, H.; Wu, D.; Li, C.	Effect of Platelet-Rich Plasma Injection on Mild or Moderate Carpal Tunnel Syndrome: An Updated Systematic Review and Meta-Analysis of Randomized Controlled Trials	2020	systematic review; bib review complete
Chiang, M. C.; Huang, C. C.	Optically-guided scalpel with light-scattering module for carpal tunnel surgical procedure via minimally invasive surgery	2015	Review article with no study group and evaluation for in vitro cytotoxicity
Lewis, K. J.; Ross, L.; Coppieters, M. W.;	Education, night splinting and exercise versus usual care on recovery and conversion to surgery for	2016	Protocol for future study.

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Vicenzino, B.; Schmid, A. B.	people awaiting carpal tunnel surgery: a protocol for a randomised controlled trial		
Boogaarts, H. D.; Verbeek, A. L.; Bartels, R. H.	Surgery for carpal tunnel syndrome under antiplatelet therapy	2010	update PICO published before 2015, captured in 2016, Sample Size too Small (n < 10 per group)
Ming, Z.; Siivola, J.; Pietikainen, S.; Narhi, M.; Hanninen, O.	Postoperative relieve of abnormal vasoregulation in carpal tunnel syndrome	2007	update PICO published before 2015, captured in 2016, no outcomes of interest
Petit, A.; Ha, C.; Bodin, J.; Rigouin, P.; Descatha, A.; Brunet, R.; Goldberg, M.; Roquelaure, Y.	Risk factors for carpal tunnel syndrome related to the work organization: a prospective surveillance study in a large working population	2015	irrelevant risk factors; not exclusive of typing, keyboarding, clerical work
Hu, K.; Zhang, T.; Xu, W.	Intraindividual comparison between open and endoscopic release in bilateral carpal tunnel syndrome: a meta-analysis of randomized controlled trials	2016	Systematic review; bib review complete
Alanazy, M. H.; Albulaihe, H.; Alhumayyd, Z.; Albarrak, A. M.; Abuzinadah, A. R.	A timed Phalen's test predicts abnormal electrophysiology in carpal tunnel syndrome	2021	Irrelevant comparison: patients already diagnosed with CTS
Burton, C. L.; Chesterton, L. S.; Chen, Y.; van der Windt, D. A.	Clinical Course and Prognostic Factors in Conservatively Managed Carpal Tunnel Syndrome: A Systematic Review	2016	Systematic review; bib review complete
Bilgici, A.; Ulusoy, H.; Kuru, O.; Canturk, F.	The comparison of ultrasound treatment and local steroid injection plus splinting in the carpal tunnel syndrome: a randomized controlled trial	2010	update PICO published before 2015, captured in 2016, relevant to 2022
Langlois, G.; Estebe, J. P.; Gentili, M. E.; Kerdiles, L.; Mouilleron, P.; Ecoffey, C.	The addition of tramadol to lidocaine does not reduce tourniquet and postoperative pain during iv regional anesthesia	2002	does not answer pico question
Whibley, D.; Martin, K. R.; Lovell, K.; Jones, G. T.	A systematic review of prognostic factors for distal upper limb pain	2015	Systematic review; bib review completed
Gulati, A.; Whitaker, I. S.; Jaggard, M.; Arch, B. N.; Hopkinson-Woolley, J.	Carpal tunnel decompression. The impact of tourniquet, anaesthesia type, and operating team on patient satisfaction scores	2005	update PICO published before 2015, captured in 2016
Nunez-Cortes, R.; Cruz-Montecinos, C.; Torres-Castro, R.; Tapia, C.; Puschel, T. A.; Perez-Alenda, S.	Effects of Cognitive and Mental Health Factors on the Outcomes Following Carpal Tunnel Release: A Systematic Review and Meta-analysis	2021	systematic review; bib review complete
Oztas, O.; Turan, B.; Bora, I.; Karakaya, M. K.	Ultrasound therapy effect in carpal tunnel syndrome	1998	update PICO published before 2015, captured in 2016
Huisstede, B. M.; Hoogvliet, P.; Randsdorp, M. S.; Glerum, S.; van Middelkoop, M.; Koes, B. W.	Carpal tunnel syndrome. Part I: effectiveness of nonsurgical treatments--a systematic review	2010	Systematic review; bib review completed

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Huisstede, B. M.; Randsdorp, M. S.; Coert, J. H.; Glerum, S.; van Middelkoop, M.; Koes, B. W.	Carpal tunnel syndrome. Part II: effectiveness of surgical treatments--a systematic review	2010	Systematic review; bib review completed
Ertem, D. H.; Sirin, T. C.; Yilmaz, I.	Electrophysiological responsiveness and clinical outcomes of local corticosteroid injection in the treatment of carpal tunnel syndrome	2019	no comparison group
van den Broeke, L. R.; Theuvenet, W. J.; van Wingerden, J. J.	Effectiveness of mini-open carpal tunnel release: An outcome study	2019	No comparison group - all patients received mini-incision open CTR
Parot-Schinkel, E.; Roquelaure, Y.; Ha, C.; Leclerc, A.; Chastang, J. F.; Raimbeau, G.; Chaise, F.; Descatha, A.	Factors affecting return to work after carpal tunnel syndrome surgery in a large French cohort	2011	update PICO published before 2015, captured in 2016
Li Pi Shan, R.; Nicolle, M.; Chan, M.; Ashworth, N.; White, C.; Winston, P.; Dukelow, S.	Electrodiagnostic Testing and Treatment for Carpal Tunnel Syndrome in Canada	2016	no outcomes of interest
Lee, S.; Oh, S.; Son, D.	Open carpal release using local anesthesia without a tourniquet: Does bleeding tendency affect the outcome?	2020	Irrelevant comparison group - bleeding tendency vs no bleeding tendency
Pressman, A.; Doumit, G.; Rosaeg, O.; Bell, M.	A double-blind randomized controlled trial showing the analgesic and anesthetic properties of lidocaine E to be equivalent to those of ropivacaine and bupivacaine in carpal tunnel release surgery	2005	update PICO published before 2015, captured in 2016
Dudley Porras, A. F.; Rojo Alaminos, P.; Vinuales, J. I.; Ruiz Villamanan, M. A.	Value of electrodiagnostic tests in carpal tunnel syndrome	2000	all the patients underwent the electrodiagnostic tests; pre-op vs. post-op
Peters, S.; Page, M. J.; Coppieters, M. W.; Ross, M.; Johnston, V.	Rehabilitation following carpal tunnel release	2013	Systematic review; bib review complete
Milani, P.; Mondelli, M.; Ginanneschi, F.; Mazzocchio, R.; Rossi, A.	Progesterone - new therapy in mild carpal tunnel syndrome? Study design of a randomized clinical trial for local therapy	2010	update PICO published before 2015, captured in 2016, study was not conducted at the time of publishing
Utrobicic, I.; Utrobicic, F.; Proloscic, I.; Utrobicic, T.; Jeric, M.; Jelacic Kadic, A.; Puljak, L.	Postoperative Pain Management after Carpal Tunnel Syndrome Surgical Treatment: Comparing Practice with Guidelines	2017	No outcomes of interest
Manni, M.; Bisaccia, M.; Rinonapoli, G.; Schiavone, A.; Meccariello, L.; McCabe, S. J.; Bisaccia, O.; Vicente, C. I.; Cappiello, A.; Caraffa, A.	Reliability, Feasibility and Value of Ecography in Clinical-functional Results in Patients Affected by Carpal Tunnel Syndrome: is There a Correlation?	2017	No comparison group - U/S only. Irrelevant comparison: healthy controls vs already diagnosed CTS patients.

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Campos-Serna, I.; Garcia-Espinoza, J. A.; Cahuana-Quispe, A. I.; Marquez-Espriella, C.; Cuervo-Vergara, M. A.; Martinez-Lopez, J. C.; Davila-Diaz, R.	Diagnosis and Treatment of Carpal Tunnel Syndrome in A Tertiary Care Center in Mexico City	2020	Irrelevant topic: investigating already diagnosed CTS patients
Korkmaz, M.; Ekici, M. A.; Cepoglu, M. C.; Ozturk, H.	Mini transverse versus longitudinal incision in carpal tunnel syndrome	2013	update PICO published before 2015, captured in 2016, follow-up < 3 months
Nandoe Tewarie, R. D.; Bartels, R. H.	The perioperative use of oral anticoagulants during surgical procedures for carpal tunnel syndrome. A preliminary study	2010	update PICO published before 2015, captured in 2016, relevant to 2022
Lave, A.; Gondar, R.; Demetriades, A. K.; Meling, T. R.	Ergonomics and musculoskeletal disorders in neurosurgery: a systematic review	2020	systematic review; bib review complete
Kabuto, Y.; Senda, M.; Hashizume, H.; Kinoshita, A.; Inoue, H.	Time course changes of nerve conduction velocity in idiopathic carpal tunnel syndrome after endoscopic surgery	2001	update PICO published before 2015, captured in 2016
Szopinski, K.; Mazurczak-Pluta, T.	Sonographic diagnosis of carpal tunnel syndrome--diagnostic value of the triangular cross-section sign	2011	Triangle Median Nerve Cross-Section Sign
Tan, S. V.; Sandford, F.; Stevenson, M.; Probert, S.; Sanders, S.; Mills, K. R.; Koutroumanidis, M.	Hand-held nerve conduction device in carpal tunnel syndrome: a prospective study	2012	Mediracer
Tang, X.; Zhuang, L.; Lu, Z.	Carpal tunnel syndrome: a retrospective analysis of 262 cases and a one to one matched case-control study of 61 women pairs in relationship between manual housework and carpal tunnel syndrome	1999	manual housework; irrelevant risk factor
Tomaino, M. M.; Ulizio, D.; Vogt, M. T.	Carpal tunnel release under intravenous regional or local infiltration anaesthesia	2001	Sample size >10 per group
Vanti, C.; Bonfiglioli, R.; Calabrese, M.; Marinelli, F.; Violante, F. S.; Pillastrini, P.	Relationship between interpretation and accuracy of the upper limb neurodynamic test 1 in carpal tunnel syndrome	2012	Upper Limb Neurodynamic Test 1
Violante, F. S.; Armstrong, T. J.; Fiorentini, C.; Graziosi, F.; Risi, A.; Venturi, S.; Curti, S.; Zanardi, F.; Cooke, R. M.; Bonfiglioli, R.; Mattioli, S.	Carpal tunnel syndrome and manual work: a longitudinal study	2007	acceptable vs. unacceptable load; irrelevant risk factors
Vogelsang, L. M.; Williams, R. L.; Lawler, K.	Lifestyle correlates of Carpal Tunnel Syndrome	1994	Life Events Stress, Perceived Stress, Self-Management Habits, Cognitive Self-Control Skills, Lifestyle Organization
Weber, R. A.; Schuchmann, J. A.; Albers, J. H.; Ortiz, J.	A prospective blinded evaluation of nerve conduction velocity versus Pressure-Specified Sensory Testing in carpal tunnel syndrome	2000	Pressure-Specified Sensory Device



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Werner, R. A.; Franzblau, A.; Gell, N.; Hartigan, A. G.; Ebersole, M.; Armstrong, T. J.	Incidence of carpal tunnel syndrome among automobile assembly workers and assessment of risk factors	2005	automobile assembly workers
Werner, R. A.; Franzblau, A.; Johnston, E.	Quantitative vibrometry and electrophysiological assessment in screening for carpal tunnel syndrome among industrial workers: a comparison	1994	Vibrometry
Werner, R. A.; Franzblau, A.; Johnston, E.	Comparison of multiple frequency vibrometry testing and sensory nerve conduction measures in screening for carpal tunnel syndrome in an industrial setting	1995	Vibrometry
Wolf, J. M.; Mountcastle, S.; Owens, B. D.	Incidence of carpal tunnel syndrome in the US military population	2009	Irrelevant Exposure: Rank, Gender, Age, Race
Yagev, Y.; Carel, R. S.; Yagev, R.	Assessment of work-related risks factors for carpal tunnel syndrome	2001	high force low repetitive / low force high repetitive work
Akbar, M.; Penzkofer, S.; Weber, M. A.; Bruckner, T.; Winterstein, M.; Jung, M.	Prevalence of carpal tunnel syndrome and wrist osteoarthritis in long-term paraplegic patients compared with controls	2014	Irrelevant Exposure
Aktas, I.; Ofluoglu, D.; Albay, T.	The relationship between benign joint hypermobility syndrome and carpal tunnel syndrome	2008	benign joint hypermobility syndrome and carpal tunnel syndrome
Gok, H.; Ay, S.; Kutlay, S.	Are relieving maneuvers useful in diagnosis of carpal tunnel syndrome?	2008	No Comparison of Interest: CTS-RM vs. Flick Sign
Westerman, D.; Kerkhoff, H.; Visser, G. H.; Kleyweg, R. P.	Interobserver agreement in case history evaluation in carpal tunnel syndrome	2012	Case History, Neurological Exam
Wright, C.; Smith, B.; Wright, S.; Weiner, M.; Wright, K.; Rubin, D.	Who develops carpal tunnel syndrome during pregnancy: An analysis of obesity, gestational weight gain, and parity	2014	Pregnancy
Madjdinasab, N.; Zadeh, N. S.; Assarzaghan, F.; Ali, A. M. A.; Pipelzadeh, M.	Efficacy comparison of splint and oral steroid therapy in nerve conduction velocity and latency median nerve in Carpal tunnel syndrome	2008	No Outcomes of Interest
Moghtaderi, A.; Izadi, S.; Sharafadinzadeh, N.	An evaluation of gender, body mass index, wrist circumference and wrist ratio as independent risk factors for carpal tunnel syndrome	2005	does not fit PICO intervention/exposure
Roquelaure, Y.; Mariel, J.; Dano, C.; Fanello, S.; Penneau-Fontbonne, D.	Prevalence, incidence and risk factors of carpal tunnel syndrome in a large footwear factory	2001	modern footwear factory workers
Sabry, M. M.; Elkader, G. A.; Fahmi, M. K.; Abdel-Rehman, A.	Correlation of nerve conduction studies to the anthropometric measurements of the hand and to the clinical severity of Carpal Tunnel syndrome	2009	Irrelevant Exposure: BMI, Wrist Ratio, Wrist-Palm Ratio
Sharifi-Mollayousefi, A.; Yazdchi-Marandi, M.; Ayramlou, H.; Heidari, P.; Salavati, A.; Zarrintan, S.	Assessment of body mass index and hand anthropometric measurements as independent risk factors for carpal tunnel syndrome	2008	BMI, wrist ratio, shape index, digit index, hand length/height ratio

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Sharifi-Mollayousefi, A.			
Sheean, G. L.; Houser, M. K.; Murray, N. M.	Lumbrical-interosseous latency comparison in the diagnosis of carpal tunnel syndrome	1995	2LI-DML
Shin, J.; Nishioka, M.; Shinko, S.; Shibuya, K.; Sugiki, M.; Kasumoto, H.; Fudo, A.; Bito, Y.; Fujita, Y.; Komaba, K.	Carpal tunnel syndrome and plasma beta2-microglobulin concentration in hemodialysis patients	2008	Dialysis
Shiota, E.; Tsuchiya, K.; Yamaoka, K.; Kawano, O.	Open carpal tunnel decompression in long-term haemodialysis patients [corrected]	2001	release vs. enlargement reconstruction of the flexor retinaculum with synovetomy
Silverstein, B. A.; Fine, L. J.; Armstrong, T. J.	Occupational factors and carpal tunnel syndrome	1987	jobs with specific hand force and repetitiveness
Stålberg, E.; Stålberg, S.; Karlsson, L.	Automatic carpal tunnel syndrome tester	2000	Automatic Testing of Electrode Resistance and Muscle Relaxation
Stevens, J. C.; Smith, B. E.; Weaver, A. L.; Bosch, E. P.; Deen, H. G., Jr.; Wilkens, J. A.	Symptoms of 100 patients with electromyographically verified carpal tunnel syndrome	1999	HSD, HSQ
Atroshi, I.; Gummesson, C.; Johnsson, R.; Ornstein, E.	Diagnostic properties of nerve conduction tests in population-based carpal tunnel syndrome	2003	Irrelevant Comparison
Boland, R. A.; Kiernan, M. C.	Assessing the accuracy of a combination of clinical tests for identifying carpal tunnel syndrome	2009	Irrelevant Exposure: Provocative Manoeuvres and Sensory Testing
Bonauto, D. K.; Silverstein, B. A.; Fan, Z. J.; Smith, C. K.; Wilcox, D. N.	Evaluation of a symptom diagram for identifying carpal tunnel syndrome	2008	Irrelevant Exposure: Hand Symptom Diagram
Cartwright, M. S.; Walker, F. O.; Blocker, J. N.; Schulz, M. R.; Arcury, T. A.; Grzywacz, J. G.; Mora, D.; Chen, H.; Marín, A. J.; Quandt, S. A.	The prevalence of carpal tunnel syndrome in Latino poultry-processing workers and other Latino manual workers	2012	Irrelevant topic: profession studied does not align with PICOs; no control
Hlebs, S.; Majhenic, K.; Vidmar, G.	Body mass index and anthropometric characteristics of the hand as risk factors for carpal tunnel syndrome	2014	Irrelevant topic: risk factors for CTS (BMI, wrist depth/width, wrist index, hand shape, etc.)
Dale, A. M.; Descatha, A.; Coomes, J.; Franzblau, A.; Evanoff, B.	Physical examination has a low yield in screening for carpal tunnel syndrome	2011	Irrelevant topic: screening for CTS
Estirado de Cabo, E.; Posada de la Paz, M.; de Andrés Copa, P.; Plaza Cano Mdel, M.; García de Aguinaga,	Carpal tunnel syndrome. A new feature in the natural history of TOS?	2003	Irrelevant topic: risk factor - toxic oil syndrome

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M. L.; Suarez Alvarez, C.; Braun Saro, B.			
Fahmi, D. S.; El-Shafey, A. M.	Carpal tunnel syndrome in fibromyalgia patients - a crucial factor for their functional impairment	2013	Irrelevant Exposure: Fibromyalgia
Franzblau, A.; Werner, R. A.; Johnston, E.; Torrey, S.	Evaluation of current perception threshold testing as a screening procedure for carpal tunnel syndrome among industrial workers	1994	Irrelevant topic: eval. of perception threshold testing as screening for CTS
Geoghegan, J. M.; Clark, D. I.; Bainbridge, L. C.; Smith, C.; Hubbard, R.	Risk factors in carpal tunnel syndrome	2004	Irrelevant topic: risk factors for CTS - prev wrist fx, RA, OA, obesity, DM, insulin usage
Gerritsen, A. A.; de Vet, H. C.; Scholten, R. J.; Bertelsmann, F. W.; de Krom, M. C.; Bouter, L. M.	Splinting vs surgery in the treatment of carpal tunnel syndrome: a randomized controlled trial	2002	Op vs NonOp
Bargiel, P.; Czapla, N.; Prowans, P.; Kotrych, D.; Zietek, P.; Lusina, D.; Legosz, P.; Petriczko, J.	Thermography in the diagnosis of carpal tunnel syndrome	2021	Irrelevant comparison: study group had undergone previous CTS release
Soltani, A. M.; Allan, B. J.; Best, M. J.; Mir, H. S.; Panthaki, Z. J.	Revision decompression and collagen nerve wrap for recurrent and persistent compression neuropathies of the upper extremity	2014	systematic review
Davies, B. W.; Pennington, G. A.; Fritz, A. M.	Two-portal endoscopic carpal tunnel release: an outcome analysis of 333 hands	1998	update PICO published before 2015, captured in 2016
Lee, C. H.; Choi, H.; Yoon, J. S.; Kang, S.	Carpal Tunnel Syndrome Assessment With Ultrasonography: A Comparison Between Non-diabetic and Diabetic Patients	2018	Irrelevant topic: diabetic CTS pt vs non-diab. CTS pt
Lee, K. M.; Kim, H. J.	Relationship Between Electrodiagnosis and Various Ultrasonographic Findings for Diagnosis of Carpal Tunnel Syndrome	2016	Irrelevant comparison: already diagnosed CTS patients vs healthy controls
Palial, V.; Kheiran, A.; Siddiqui, S.	Carpal tunnel decompression in primary care: what is the infection risk and is it safe and effective?	2019	No comparison group
Povlsen, B.	High incidence of absent nerve conduction in older patients with bilateral carpal tunnel syndrome	2010	Irrelevant comparison: Comparing motor and sensory conduction speeds in young vs old adults
Chung, S. Y.; Kwak, J. M.; Kang, S.; Son, S. H.; Kim, J. D.; Yoon, J. S.	Predictive Variables for Sonographically Guided Corticosteroid Injection in Mild-to-Moderate Carpal Tunnel Syndrome	2018	no comparison group
Dehghan, F.; Haghighat, S.; Ramezani, H.; Karami, M.; Rezaei, M. R.	Ultrasonography Predictive Factors of Response to Local Steroid Injection in Patients with Carpal Tunnel Syndrome	2018	no outcomes of interest
Bastian, F. O.	Amyloidosis and the carpal tunnel syndrome	1974	no comparison group
Viera, A. J.	Management of carpal tunnel syndrome	2003	Systematic review; bib review completed
Roll, S. C.; Hardison, M. E.	Effectiveness of Occupational Therapy Interventions for Adults With Musculoskeletal Conditions of the Forearm, Wrist, and Hand: A Systematic Review	2017	Systematic review; bib review complete

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Gebhard, R. E.; Al-Samsam, T.; Greger, J.; Khan, A.; Chelly, J. E.	Distal nerve blocks at the wrist for outpatient carpal tunnel surgery offer intraoperative cardiovascular stability and reduce discharge time	2002	update PICO published before 2015, captured in 2016
Bernard, J. M.; Macaire, P.	Dose-range effects of clonidine added to lidocaine for brachial plexus block	1997	update PICO published before 2015, captured in 2016
Bigat, Z.; Boztug, N.; Hadimioglu, N.; Cete, N.; Coskunfirat, N.; Ertok, E.	Does dexamethasone improve the quality of intravenous regional anesthesia and analgesia? A randomized, controlled clinical study	2006	update PICO published before 2015, captured in 2016
Steinberg, R. B.; Reuben, S. S.; Gardner, G.	The dose-response relationship of ketorolac as a component of intravenous regional anesthesia with lidocaine	1998	update PICO published before 2015, captured in 2016
Bouaziz, H.; Paqueron, X.; Bur, M. L.; Merle, M.; Laxenaire, M. C.; Benhamou, D.	No enhancement of sensory and motor blockade by neostigmine added to mepivacaine axillary plexus block	1999	update PICO published before 2015, captured in 2016
Jazayeri, S. M.; Ashraf, A.; Karimian, H.; Moghari, A.; Azadeh, A.	Test-retest reliability of transcarpal sensory NCV method for diagnosis of carpal tunnel syndrome	2015	Doesn't answer PICO question; assessing interpractitioner differences
Kanikannan, M. A.; Boddu, D. B.; Umamahesh, S.; Sarva, S.; Durga, P.; Borgohain, R.	Comparison of high-resolution sonography and electrophysiology in the diagnosis of carpal tunnel syndrome	2015	doesn't fit PICO 1
Goodyear-Smith, F.; Arroll, B.	What can family physicians offer patients with carpal tunnel syndrome other than surgery? A systematic review of nonsurgical management	2004	Systematic review; bib review completed
Singla, M.; Sharma, M. K.; Khurana, D.; Lal, V.	Role of High Frequency Ultrasound in Diagnosing Carpal Tunnel Syndrome as Compared with Conventional Nerve Conduction Studies	2020	Irrelevant comparison: CTS vs healthy controls
Rayegani, S. M.; Raeissadat, S. A.; Ahmadi-Dastgerdi, M.; Bavaghar, N.; Rahimi-Dehghan, S.	Comparing the efficacy of local triamcinolone injection in carpal tunnel syndrome using three different approaches with or without ultrasound guidance	2019	local triamcinolone injection versus itself
Deng, X.; Chau, L. P.; Chiu, S. Y.; Leung, K. P.; Hu, Y.; Ip, W. Y.	Diagnostic Use of Ultrasonography in Carpal Tunnel Syndrome and Its Correlation with the Chinese Version of Boston Carpal Tunnel Questionnaire	2019	irrelevant comparison: ultrasonography vs. Chinese-Boston Carpal Tunnel Questionnaire (C-BCTQ)
Conzen, C.; Conzen, M.; Rubsamen, N.; Mikolajczyk, R.	Predictors of the patient-centered outcomes of surgical carpal tunnel release - a prospective cohort study	2016	no comparison group
Lee, H.; Jee, S.; Park, S. H.; Ahn, S. C.; Im, J.; Sohn, M. K.	Quantitative Muscle Ultrasonography in Carpal Tunnel Syndrome	2016	irrelevant population
Emril, D. R.; Zakaria, I.; Amrya, M.	Agreement Between High-Resolution Ultrasound and Electro-Physiological Examinations for Diagnosis of Carpal Tunnel Syndrome in the Indonesian Population	2019	irrelevant population
Bayrak, I. K.; Bayrak, A. O.; Kale, M.; Turker, H.; Diren, B.	Bifid median nerve in patients with carpal tunnel syndrome	2008	Irrelevant topic: Bifid median nerve in CTS patients

Authors	Article Title	Year	Reason for Exclusion
Dale, A. M.; Gardner, B. T.; Zeringue, A.; Strickland, J.; Descatha, A.; Franzblau, A.; Evanoff, B. A.	Self-reported physical work exposures and incident carpal tunnel syndrome	2014	Irrelevant topic: self reported exposure
Cartwright, M. S.; Walker, F. O.; Newman, J. C.; Schulz, M. R.; Arcury, T. A.; Grzywacz, J. G.; Mora, D. C.; Chen, H.; Eaton, B.; Quandt, S. A.	One-year incidence of carpal tunnel syndrome in Latino poultry processing workers and other Latino manual workers	2014	Irrelevant topic: profession studied does not align with PICOs; no control
Andreu, J. L.; Ly-Pen, D.; Millán, I.; de Blas, G.; Sánchez-Olaso, A.	Local injection versus surgery in carpal tunnel syndrome: neurophysiologic outcomes of a randomized clinical trial	2014	Op vs NonOp
Lo, J. K.; Finestone, H. M.; Gilbert, K.	Prospective evaluation of the clinical prediction of electrodiagnostic results in carpal tunnel syndrome	2009	irrelevant comparison
Cartwright, M. S.; Walker, F. O.; Blocker, J. N.; Schulz, M. R.; Arcury, T. A.; Grzywacz, J. G.; Mora, D.; Chen, H.; Marín, A. J.; Quandt, S. A.	Ultrasound for carpal tunnel syndrome screening in manual laborers	2013	Irrelevant topic: profession studied does not align with PICOs; no control
Bonfiglioli, R.; Mattioli, S.; Armstrong, T. J.; Graziosi, F.; Marinelli, F.; Farioli, A.; Violante, F. S.	Validation of the ACGIH TLV for hand activity level in the OCTOPUS cohort: a two-year longitudinal study of carpal tunnel syndrome	2013	Irrelevant topic: profession studied does not align with PICOs; no control
Hems, T. E.; Miller, R.; Massraf, A.; Green, J.	Assessment of a diagnostic questionnaire and protocol for management of carpal tunnel syndrome	2009	irrelevant comparison
Chiang, H. C.; Chen, S. S.; Yu, H. S.; Ko, Y. C.	The occurrence of carpal tunnel syndrome in frozen food factory employees	1990	Irrelevant topic: profession studied does not align with PICOs; no control
de Krom, M. C.; Kester, A. D.; Knipschild, P. G.; Spaans, F.	Risk factors for carpal tunnel syndrome	1990	Irrelevant topic: risk factors associated with CTS (clerical work not included)
Morgenstern, H.; Kelsh, M.; Kraus, J.; Margolis, W.	A cross-sectional study of hand/wrist symptoms in female grocery checkers	1991	Irrelevant topic: cts in grocery store workers
Bury, T. F.; Akelman, E.; Weiss, A. P.	Prospective, randomized trial of splinting after carpal tunnel release	1995	Irrelevant follow up timing: f/u was 2 weeks (criteria states at least 3 months)
Taylor-Gjevre, R. M.; Gjevre, J. A.; Nair, B.	Suspected carpal tunnel syndrome: Do nerve conduction study results and symptoms match?	2010	irrelevant population
Ntani, G.; Palmer, K. T.; Linaker, C.; Harris, E. C.; Van der Star, R.; Cooper, C.; Coggon, D.	Symptoms, signs and nerve conduction velocities in patients with suspected carpal tunnel syndrome	2013	Irrelevant topic; focuses on symptoms instead of a specific diagnostic tool/method

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Nordstrom, D. L.; Vierkant, R. A.; DeStefano, F.; Layde, P. M.	Risk factors for carpal tunnel syndrome in a general population	1997	Irrelevant topic: risk factors for CTS (not specific to clerical work/typing)
Leclerc, A.; Franchi, P.; Cristofari, M. F.; Delemotte, B.; Mereau, P.; Teyssier-Cotte, C.; Touranchet, A.	Carpal tunnel syndrome and work organisation in repetitive work: a cross sectional study in France. Study Group on Repetitive Work	1998	Irrelevant topic: repetitive work
Kaplan, Y.; Kurt, S. G.; Karaer, H.	Carpal tunnel syndrome in postmenopausal women	2008	Doesn't answer PICO question
Yagci, I.; Gunduz, O. H.; Sancak, S.; Agirman, M.; Mesci, E.; Akyuz, G.	Comparative electrophysiological techniques in the diagnosis of carpal tunnel syndrome in patients with diabetic polyneuropathy	2010	irrelevant population
Plastino, M.; Fava, A.; Carmela, C.; De Bartolo, M.; Ermio, C.; Cristiano, D.; Ettore, M.; Abenavoli, L.; Bosco, D.	Insulin resistance increases risk of carpal tunnel syndrome: a case-control study	2011	irrelevant exposure
Matias, A. C.; Salvendy, G.; Kuczek, T.	Predictive models of carpal tunnel syndrome causation among VDT operators	1998	Irrelevant comparison: already diagnosed CTS patients vs healthy controls
Missere, M.; Caso Maria, A.; Raffi, G. B.	Evaluation of the impingement of the pronator muscle in occupational carpal tunnel syndrome by electromyographic and ultrasonographic techniques	1999	very low quality
Burt, S.; Crombie, K.; Jin, Y.; Wurzelbacher, S.; Ramsey, J.; Deddens, J.	Workplace and individual risk factors for carpal tunnel syndrome	2011	no exposures of interest
Garg, A.; Kapellusch, J.; Hegmann, K.; Wertsch, J.; Merryweather, A.; Deckow-Schaefer, G.; Malloy, E. J.	The Strain Index (SI) and Threshold Limit Value (TLV) for Hand Activity Level (HAL): risk of carpal tunnel syndrome (CTS) in a prospective cohort	2012	irrelevant exposure
Gerr, F.; Letz, R.	The sensitivity and specificity of tests for carpal tunnel syndrome vary with the comparison subjects	1998	Irrelevant comparison: comparison group consists of healthy controls without CTS
Katz, J. N.; Larson, M. G.; Fossel, A. H.; Liang, M. H.	Validation of a surveillance case definition of carpal tunnel syndrome	1991	Irrelevant comparison: Nerve conduction tests vs Tinel/Phalen tests
Mondelli, M.; Grippo, A.; Mariani, M.; Baldasseroni, A.; Ansuini, R.; Ballerini, M.; Bandinelli, C.; Graziani, M.; Luongo, F.; Mancini, R.; Manescalchi, P.; Pellegrini, S.; Sgarrella, C.; Giannini, F.	Carpal tunnel syndrome and ulnar neuropathy at the elbow in floor cleaners	2006	Doesn't answer PICO question

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Bland, J. D.	The relationship of obesity, age, and carpal tunnel syndrome: more complex than was thought?	2005	Irrelevant topic: age, BMI risk factors for CTS
Smith, T.	Near-nerve versus surface electrode recordings of sensory nerve conduction in patients with carpal tunnel syndrome	1998	Irrelevant comparison: near nerve electrodes vs surface electrodes in SNC
Armstrong, T.; Dale, A. M.; Franzblau, A.; Evanoff, B. A.	Risk factors for carpal tunnel syndrome and median neuropathy in a working population	2008	irrelevant population
Keese, G. R.; Wongworawat, M. D.; Frykman, G.	The clinical significance of the palmaris longus tendon in the pathophysiology of carpal tunnel syndrome	2006	Doesn't answer PICO question
Roquelaure, Y.; Ha, C.; Pelier-Cady, M. C.; Nicolas, G.; Descatha, A.; Leclerc, A.; Raimbeau, G.; Goldberg, M.; Imbernon, E.	Work increases the incidence of carpal tunnel syndrome in the general population	2008	irrelevant population
Bonfiglioli, R.; Mattioli, S.; Spagnolo, M. R.; Violante, F. S.	Course of symptoms and median nerve conduction values in workers performing repetitive jobs at risk for carpal tunnel syndrome	2006	Irrelevant topic: profession studied does not align with PICOs; no control
Bonfiglioli, R.; Mattioli, S.; Fiorentini, C.; Graziosi, F.; Curti, S.; Violante, F. S.	Relationship between repetitive work and the prevalence of carpal tunnel syndrome in part-time and full-time female supermarket cashiers: a quasi-experimental study	2007	study investigates repetitive work
De Smet, L.; Steenwerckx, A.; Van den Bogaert, G.; Cnudde, P.; Fabry, G.	Value of clinical provocative tests in carpal tunnel syndrome	1995	Irrelevant comparison groups
Bilkis, S.; Loveman, D. M.; Eldridge, J. A.; Ali, S. A.; Kadir, A.; McConathy, W.	Modified Phalen's test as an aid in diagnosing carpal tunnel syndrome	2012	irrelevant comparison
Calfee, R. P.; Dale, A. M.; Ryan, D.; Descatha, A.; Franzblau, A.; Evanoff, B.	Performance of simplified scoring systems for hand diagrams in carpal tunnel syndrome screening	2012	irrelevant comparison
Kuhlman, K. A.; Hennessey, W. J.	Sensitivity and specificity of carpal tunnel syndrome signs	1997	Irrelevant comparisons: NCS vs clinical tests
Macdermid, J. C.; Kramer, J. F.; McFarlane, R. M.; Roth, J. H.	Inter-rater agreement and accuracy of clinical tests used in diagnosis of Carpal Tunnel Syndrome	1997	Irrelevant comparison: clinical tests performed and compared to one another
de Krom, M. C.; Knipschild, P. G.; Kester, A. D.; Spaans, F.	Efficacy of provocative tests for diagnosis of carpal tunnel syndrome	1990	Irrelevant comparison: NCS vs provocative tests
Wainner, R. S.; Fritz, J. M.; Irrgang, J. J.; Delitto, A.; Allison, S.; Boninger, M. L.	Development of a clinical prediction rule for the diagnosis of carpal tunnel syndrome	2005	irrelevant comparison: physical examination vs. self reported measures
Katz, J. N.; Stirrat, C. R.	A self-administered hand diagram for the diagnosis of carpal tunnel syndrome	1990	Irrelevant topic: hand diagram for diagnosis of CTS

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Franzblau, A.; Werner, R. A.; Albers, J. W.; Grant, C. L.; Olinski, D.; Johnston, E.	Workplace surveillance for carpal tunnel syndrome using hand diagrams	1994	Irrelevant population: participants did not necessarily have CTS symptoms and signs
Katz, J. N.; Stirrat, C. R.; Larson, M. G.; Fossel, A. H.; Eaton, H. M.; Liang, M. H.	A self-administered hand symptom diagram for the diagnosis and epidemiologic study of carpal tunnel syndrome	1990	Irrelevant comparison: hand symptom diagram vs NCS
Katz, J. N.; Larson, M. G.; Sabra, A.; Krarup, C.; Stirrat, C. R.; Sethi, R.; Eaton, H. M.; Fossel, A. H.; Liang, M. H.	The carpal tunnel syndrome: diagnostic utility of the history and physical examination findings	1990	Irrelevant comparison: NCS vs physical exam and hand diagrams
Winn, F. J., Jr.; Krieg, E. F., Jr.	A regression model for carpal tunnel syndrome	1989	Irrelevant population: CTS vs non CTS patients
Evanoff, B.; Dale, A. M.; Deych, E.; Ryan, D.; Franzblau, A.	Risk factors for incident carpal tunnel syndrome: results of a prospective cohort study of newly-hired workers	2012	irrelevant exposure
Jenkins, P. J.; Srikantharajah, D.; Duckworth, A. D.; Watts, A. C.; McEachan, J. E.	Carpal tunnel syndrome: the association with occupation at a population level	2013	Irrelevant population: already diagnosed patients with CTS
Claes, F.; Kasius, K. M.; Meulstee, J.; Verhagen, W. I.	Comparing a new ultrasound approach with electrodiagnostic studies to confirm clinically defined carpal tunnel syndrome: a prospective, blinded study	2013	Irrelevant population: already diagnosed patients with CTS
Moghtaderi, A.; Sanei-Sistani, S.; Sadoughi, N.; Hamed-Azimi, H.	Ultrasound evaluation of patients with moderate and severe carpal tunnel syndrome	2012	irrelevant patient population
Khosrawi, S.; Maghrouri, R.	The prevalence and severity of carpal tunnel syndrome during pregnancy	2012	irrelevant comparison; irrelevant risk factors
Elsharif, M.; Papanna, M.; Helm, R.	Long-term follow up outcome results of Knifelight carpal tunnel release and conventional open release following a departmental randomized controlled trial. A prospective study	2014	Irrelevant comparison; both open releases, comparing use of specific device
Bland, J. D.; Rudolfer, S.; Weller, P.	Prospective analysis of the accuracy of diagnosis of carpal tunnel syndrome using a web-based questionnaire	2014	Irrelevant topic; analyzing diagnosis accuracy via questionnaire
Gomes, I.; Becker, J.; Ehlers, J. A.; Nora, D. B.	Prediction of the neurophysiological diagnosis of carpal tunnel syndrome from the demographic and clinical data	2006	irrelevant comparison
Kang, E. K.; Lim, J. Y.; Shin, H. I.; Gong, H. S.; Oh, J. H.; Paik, N. J.	Comparison between nerve conduction studies and current perception threshold test in carpal tunnel syndrome	2008	included clinically diagnosed CTS cases
Burt, S.; Deddens, J. A.; Crombie, K.; Jin, Y.; Wurzelbacher, S.; Ramsey, J.	A prospective study of carpal tunnel syndrome: workplace and individual risk factors	2013	Included individuals with jobs outside of keyboarding, typing, and clerical work.
Evanoff, B.; Zeringue, A.; Franzblau, A.; Dale, A. M.	Using job-title-based physical exposures from O*NET in an epidemiological study of carpal tunnel syndrome	2014	", workers were primarily employed as construction workers, technical or laboratory



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			workers, clerical workers, or as hospital service workers."
Goodson, J. T.; DeBerard, M. S.; Wheeler, A. J.; Colledge, A. L.	Occupational and biopsychosocial risk factors for carpal tunnel syndrome	2014	occupation not limited to clerical, typing, keyboarding work
Mediouni, Z.; Bodin, J.; Dale, A. M.; Herquelot, E.; Carton, M.; Leclerc, A.; Fouquet, N.; Dumontier, C.; Roquelaure, Y.; Evanoff, B. A.; Descatha, A.	Carpal tunnel syndrome and computer exposure at work in two large complementary cohorts	2015	Cohorts include participants from service and construction industries
Boz, C.; Ozmenoglu, M.; Altunayoglu, V.; Velioglu, S.; Alioglu, Z.	Individual risk factors for carpal tunnel syndrome: an evaluation of body mass index, wrist index and hand anthropometric measurements	2004	Irrelevant topic: risk factors for CTS-BMI, wrist index & hand anthropometric measures
Becker, J.; Nora, D. B.; Gomes, I.; Stringari, F. F.; Seitensu, R.; Panosso, J. S.; Ehlers, J. C.	An evaluation of gender, obesity, age and diabetes mellitus as risk factors for carpal tunnel syndrome	2002	Irrelevant topic: risk factors for CTS (gender, BMI, age and DM)
Vahdatpour, B.; Khosrawi, S.; Chatraei, M.	The role of median nerve terminal latency index in the diagnosis of carpal tunnel syndrome in comparison with other electrodiagnostic parameters	2016	irrelevant comparison
Elnady, B.; Rageh, E. M.; Ekhoully, T.; Fathy, S. M.; Alshaar, M.; Fouda, E. S.; Attar, M.; Abdelaal, A. M.; El Tantawi, A.; Algethami, M. M.; Bong, D.	Diagnostic potential of ultrasound in carpal tunnel syndrome with different etiologies: correlation of sonographic median nerve measures with electrodiagnostic severity	2019	Irrelevant population: already diagnosed patients with CTS vs healthy controls
Yurdakul, O. V.; Mesci, N.; Cetinkaya, Y.; Geler Kulcu, D.	Diagnostic Significance of Ultrasonographic Measurements and Median-Ulnar Ratio in Carpal Tunnel Syndrome: Correlation with Nerve Conduction Studies	2016	irrelevant patient population
Gell, N.; Werner, R. A.; Franzblau, A.; Ulin, S. S.; Armstrong, T. J.	A longitudinal study of industrial and clerical workers: incidence of carpal tunnel syndrome and assessment of risk factors	2005	irrelevant population
Orak, M. M.; Gumustas, S. A.; Onay, T.; Uludag, S.; Bulut, G.; Boru, U. T.	Comparison of postoperative pain after open and endoscopic carpal tunnel release: A randomized controlled study	2016	less than 3 months follow up for surgical treatment
Ibrahim, H. R.	Diagnostic value of median nerve shear wave ultrasound elastography in diagnosis and differentiation of carpal tunnel syndrome severity	2021	irrelevant population
Babaei-Ghazani, A.; Forogh, B.; Raissi, G. R.; Ahadi, T.; Eftekharsadat, B.; Yousefi, N.; Rahimi-	Ultrasound-Guided Corticosteroid Injection in Carpal Tunnel Syndrome: Comparison Between Radial and Ulnar Approaches	2020	Corticosteroid Injection A vs. B

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Dehghan, S.; Moradi, K.			
Gatheridge, M. A.; Sholty, E. A.; Inman, A.; Pattillo, M.; Mindrup, F.; Sanderson, D. L.	Splinting in Carpal Tunnel Syndrome: The Optimal Duration	2020	
Stevinson, C.; Devaraj, V. S.; Fountain-Barber, A.; Hawkins, S.; Ernst, E.	Homeopathic arnica for prevention of pain and bruising: randomized placebo-controlled trial in hand surgery	2003	pre-op and post-op medication
Robaux, S.; Blunt, C.; Viel, E.; Cuvillon, P.; Nouguier, P.; Dautel, G.; Boileau, S.; Girard, F.; Bouaziz, H.	Tramadol added to 1.5% mepivacaine for axillary brachial plexus block improves postoperative analgesia dose-dependently	2004	intra-op medication
Lawrence, T. M.; Desai, V. V.	Topical anaesthesia to reduce pain associated with carpal tunnel surgery	2002	pre-op medication
Leinberry, C. F.; Hammond, N. L., 3rd; Siegfried, J. W.	The role of epineurotomy in the operative treatment of carpal tunnel syndrome	1997	irrelevant comparison
Maeda, Y.; Kim, H.; Kettner, N.; Kim, J.; Cina, S.; Malatesta, C.; Gerber, J.; McManus, C.; Ong- Sutherland, R.; Mezzacappa, P.; Libby, A.; Mawla, I.; Morse, L. R.; Kaptchuk, T. J.; Audette, J.; Napadow, V.	Rewiring the primary somatosensory cortex in carpal tunnel syndrome with acupuncture	2017	No comparison group; compares same intervention
Via, G. G.; Esterle, A. R.; Awan, H. M.; Jain, S. A.; Goyal, K. S.	Comparison of Local-Only Anesthesia Versus Sedation in Patients Undergoing Staged Bilateral Carpal Tunnel Release: A Randomized Trial	2020	Follow up criteria not met; f/u only 6 weeks
Lech, L.; Leitsch, S.; Krug, C.; Bonaccio, M.; Haas, E.; Holzbach, T.	Open Carpal Tunnel Release Under WALANT – Suitable for All Ages?	2021	irrelevant comparison
Zhang, D.; Chruscielski, C. M.; Blazar, P.; Earp, B. E.	Accuracy of Provocative Tests for Carpal Tunnel Syndrome	2020	irrelevant comparison
Karamanis, N.; Stamatiou, G.; Vasdeki, D.; Sakellaris, N.; Xarchas, K. C.; Varitimidis, S.; Dailiana, Z. H.	Wide Awake Open Carpal Tunnel Release: The Effect of Local Anesthetics in the Postoperative Outcome	2021	local vs. local
Lo, J. K.; Finestone, H. M.; Gilbert, K.; Woodbury, M. G.	Community-based referrals for electrodiagnostic studies in patients with possible carpal tunnel syndrome: what is the diagnosis?	2002	Irrelevant Comparison
Witt, J. C.; Hentz, J. G.; Stevens, J. C.	Carpal tunnel syndrome with normal nerve conduction studies	2004	Irrelevant Population: EMG/NCS was performed before subject enrolment and completion of

Authors	Article Title	Year	Reason for Exclusion
			the Hand Symptom Questionnaire and Diagram
Shum, C.; Parisien, M.; Strauch, R. J.; Rosenwasser, M. P.	The role of flexor tenosynovectomy in the operative treatment of carpal tunnel syndrome	2002	Irrelevant Comparison: Open vs. Open
Lin, M. T.; Liu, I. C.; Syu, W. T.; Kuo, P. L.; Wu, C. H.	Effect of Perineural Injection with Different Dextrose Volumes on Median Nerve Size, Elasticity and Mobility in Hands with Carpal Tunnel Syndrome	2021	irrelevant comparison
Lin, M. T.; Liao, C. L.; Hsiao, M. Y.; Hsueh, H. W.; Chao, C. C.; Wu, C. H.	Volume Matters in Ultrasound-Guided Perineural Dextrose Injection for Carpal Tunnel Syndrome: A Randomized, Double-Blinded, Three-Arm Trial	2020	irrelevant comparison
Hojjati, F.; Afjei, M. H.; Ebrahimi Takamjani, I.; Rayegani, S. M.; Sarrafzadeh, J.; Raeissadat, S. A.; Payami, S.	The Effect of High-Power and Low-Power Lasers on Symptoms and the Nerve Conduction Study in Patients With Carpal Tunnel Syndrome. A Prospective Randomized Single-Blind Clinical Trial	2020	irrelevant comparison
Sosic, L.; Bojnec, V.; Lonzaric, D.; Jesensek Papez, B.	An advanced stage of carpal tunnel syndrome - is night-time splinting still effective?	2020	irrelevant comparison
Multanen, J.; Uimonen, M. M.; Repo, J. P.; Hakkinen, A.; Ylinen, J.	Use of conservative therapy before and after surgery for carpal tunnel syndrome	2021	Doesn't answer PICO question
Jalil, H.; Polfliet, F.; Nijs, K.; Bruckers, L.; De Wachter, G.; Callebaut, I.; Salimans, L.; Van de Velde, M.; Stessel, B.	Efficacy of ultrasound-guided forearm nerve block versus forearm intravenous regional anaesthesia in patients undergoing carpal tunnel release: A randomized controlled trial	2021	regional vs. regional
Akarsu, S.; Karadas, O.; Tok, F.; Levent Gul, H.; Eroglu, E.	Single versus repetitive injection of lignocaine in the management of carpal tunnel syndrome--a randomized controlled trial	2015	Irrelevant comparison; both interventions are injections of same solution
Roghani, R. S.; Holisaz, M. T.; Norouzi, A. A. S.; Delbari, A.; Gohari, F.; Lokk, J.; Boon, A. J.	Sensitivity of high-resolution ultrasonography in clinically diagnosed carpal tunnel syndrome patients with hand pain and normal nerve conduction studies	2018	included clinically diagnosed CTS cases
Raudino, F.	Tethered median nerve stress test in the diagnosis of carpal tunnel syndrome	2000	Irrelevant Comparison: Median Nerve Stress Test
Fagan, D. J.; Evans, A.; Ghandour, A.; Prabhakaran, P.; Clay, N. R.	A controlled clinical trial of postoperative hand elevation at home following day-case surgery	2004	Irrelevant Comparison: Sling vs. Sling after Operation
Bahrami, M. H.; Shahraeeni, S.; Raeissadat, S. A.	Comparison between the effects of progesterone versus corticosteroid local injections in mild and moderate carpal tunnel syndrome: a randomized clinical trial	2015	Inappropriate comparison; Both interventions include local injection
Bulut, G. T.; Caglar, N. S.; Aytekin, E.; Ozgonenel, L.; Tutun, S.; Demir, S. E.	Comparison of static wrist splint with static wrist and metacarpophalangeal splint in carpal tunnel syndrome	2015	Irrelevant comparison; interventions are the same

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El Miedany, Y.; Ashour, S.; Youssef, S.; Mehanna, A.; Meky, F. A.	Clinical diagnosis of carpal tunnel syndrome: old tests-new concepts	2008	Irrelevant Comparison: Clinical Tests vs. Control
Dhong, E. S.; Han, S. K.; Lee li, B.; Kim, W. K.	Correlation of electrodiagnostic findings with subjective symptoms in carpal tunnel syndrome	2000	Irrelevant Comparison: NCS vs. Clinical Studies
Dias, J. J.; Bhowal, B.; Wildin, C. J.; Thompson, J. R.	Carpal tunnel decompression. Is lengthening of the flexor retinaculum better than simple division?	2004	Irrelevant Comparison: Open vs. Open
Kanchanathepsak, T.; Wairojanakul, W.; Phakdepiboon, T.; Suppaphol, S.; Watcharananan, I.; Tawonsawatruk, T.	Hypothenar fat pad flap vs conventional open release in primary carpal tunnel syndrome: A randomized controlled trial	2017	Irrelevant operative procedure (Hypothenar fat pad flap)
Karimzadeh, A.; Bagheri, S.; Raeissadat, S. A.; Bagheri, S.; Rayegani, S. M.; Rahimi-Dehgolan, S.; Safdari, F.; Abrishamkarzadeh, H.; Shirzad, H.	The comparison of the effectiveness between different doses of local methylprednisolone injection versus triamcinolone in Carpal Tunnel Syndrome: a double-blind clinical trial	2019	Irrelevant comparison; both interventions are injections
Ke, M. J.; Chen, L. C.; Chou, Y. C.; Li, T. Y.; Chu, H. Y.; Tsai, C. K.; Wu, Y. T.	The dose-dependent efficiency of radial shock wave therapy for patients with carpal tunnel syndrome: a prospective, randomized, single-blind, placebo-controlled trial	2016	Inappropriate comparison; all groups received at least one session of rESWT.
Fehringer, E. V.; Tiedeman, J. J.; Dobler, K.; McCarthy, J. A.	Bilateral endoscopic carpal tunnel releases: Simultaneous versus staged operative intervention	2002	Irrelevant Comparison: Endoscopic vs. Endoscopic
Kaul, M. P.; Pagel, K. J.; Dryden, J. D.	Lack of predictive power of the "tethered" median stress test in suspected carpal tunnel syndrome	2000	Irrelevant Comparison: Tethered Median nerve Stress Test vs. EMG
Kaul, M. P.; Pagel, K. J.	Value of the lumbrical-interosseous technique in carpal tunnel syndrome	2002	Irrelevant Comparison: EMG vs. EMG
Karl, A. I.; Carney, M. L.; Kaul, M. P.	The lumbrical provocation test in subjects with median inclusive paresthesia	2001	Irrelevant Comparison: Lumbrical Provocation Test vs. EMG
Swen, W. A.; Jacobs, J. W.; Bussemaker, F. E.; de Waard, J. W.; Bijlsma, J. W.	Carpal tunnel sonography by the rheumatologist versus nerve conduction study by the neurologist	2001	Irrelevant Comparison: Improvement of initial complaints of 90% or more 3 months after surgery vs. NCS and US
Kaul, M. P.; Pagel, K. J.; Wheatley, M. J.; Dryden, J. D.	Carpal compression test and pressure provocative test in veterans with median-distribution paresthesias	2001	Irrelevant Comparison: Carpal Compression Test and Pressure Provocative Test vs. ENG
Nakamichi, K.; Tachibana, S.	Ultrasonographic measurement of median nerve cross-sectional area in idiopathic carpal tunnel syndrome: Diagnostic accuracy	2002	Irrelevant Population: CTS previously diagnosed
Padua, L.; Giannini, F.; Girlanda, P.; Insola, A.; Luchetti, R.; Lo Monaco, M.	Usefulness of segmental and comparative tests in the electrodiagnosis of carpal tunnel syndrome: the Italian multicenter study. Italian CTS Study Group	1999	Irrelevant Population: CTS previously diagnosed

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Padua, R.; Uncini, A.; Tonali, P.			
Hansen, P. A.; Micklesen, P.; Robinson, L. R.	Clinical utility of the flick maneuver in diagnosing carpal tunnel syndrome	2004	Irrelevant Comparison: Flick, Tinel, Phalen vs. ENG
Bland, J. D.	The value of the history in the diagnosis of carpal tunnel syndrome	2000	Irrelevant Comparison: Clinical Tests vs. ENG
Pagel, K. J.; Kaul, M. P.; Dryden, J. D.	Lack of utility of Semmes-Weinstein monofilament testing in suspected carpal tunnel syndrome	2002	Irrelevant Comparison: Semmes Weinstein Monofilament vs. EMG
Wong, S. M.; Hui, A. C.; Lo, S. K.; Chiu, J. H.; Poon, W. F.; Wong, L.	Single vs. two steroid injections for carpal tunnel syndrome: a randomised clinical trial	2005	Irrelevant Comparison: Steroid A vs. Double Dose of Steroid A
Watts, A. C.; Gaston, P.; Hooper, G.	Randomized trial of buffered versus plain lidocaine for local anaesthesia in open carpal tunnel decompression	2004	Irrelevant Comparison: Anesthesia A vs. Anesthesia B
Seol, G. H.; Kang, P.; Lee, H. S.; Seol, G. H.	Antioxidant activity of linalool in patients with carpal tunnel syndrome	2016	Inappropriate comparison; Participants presented without CTS
Dimitrios, S.; Stasinopoulos, L.	Treatment of Carpal Tunnel Syndrome in pregnancy with Polarized Polychromatic Non-coherent Light (Bioptron Light): A Preliminary, Prospective, Open Clinical Trial	2017	No comparison group
Crnkovic, T.; Bilic, R.; Trkulja, V.; Cesarik, M.; Gotovac, N.; Kolundžic, R.	The effect of epineurotomy on the median nerve volume after the carpal tunnel release: a prospective randomised double-blind controlled trial	2012	Irrelevant Comparison: Open vs. Open
Zyluk, A.; Strychar, J.	A comparison of two limited open techniques for carpal tunnel release	2006	Irrelevant Comparison: Mini-Incision vs. 2 Mini-Incisions
Yeo, G.; Gupta, A.; Ding, G.; Skerman, H.; Khatun, M.; Melsom, D.	Pain Levels after Local Anaesthetic with or without Hyaluronidase in Carpal Tunnel Release: A Randomised Controlled Trial	2015	local v. local
Rozanski, M.; Neuhaus, V.; Thornton, E.; Becker, S. J.; Rathmell, J. P.; Ring, D.	Symptoms During or Shortly After Isolated Carpal Tunnel Release and Problems Within 24 hours After Surgery	2015	no outcomes of interest
Halac, G.; Demir, S.; Yucel, H.; Niftaliyev, E.; Kocaman, G.; Duruyen, H.; Kendirli, T.; Asil, T.	Splinting is effective for night-only symptomatic carpal tunnel syndrome patients	2015	irrelevant comparison
Martins, R. S.; Siqueira, M. G.; Simplicio, H.	Wrist immobilization after carpal tunnel release: a prospective study	2006	Follow-up less than a month
Castillo, T. N.; Yao, J.	Prospective randomized comparison of single-incision and two-incision carpal tunnel release outcomes	2014	irrelevant comparison
Ucar, B. Y.; Demirtas, A.; Bulut, M.; Azboy, I.; Ucar, D.	Carpal tunnel decompression: two different mini-incision techniques	2012	irrelevant comparison
Sasor, S. E.; Cook, J. A.; Duquette, S. P.; Lucich, E. A.; Cohen, A. C.; Wooden, W.	Tourniquet Use in Wide-Awake Carpal Tunnel Release	2020	No comparison of interest (tourniquet vs no tourniquet)

Authors	Article Title	Year	Reason for Exclusion
A.; Tholpady, S. S.; Chu, M. W.			
Nesbitt, K. S.; Innis, P. C.; Dubin, N. H.; Wilgis, E. F.	Staged versus simultaneous bilateral endoscopic carpal tunnel release: an outcome study	2006	irrelevant comparison
Roh, Y. H.; Hwangbo, K.; Gong, H. S.; Baek, G. H.	Comparison of Ultrasound-Guided Versus Landmark- Based Corticosteroid Injection for Carpal Tunnel Syndrome: A Prospective Randomized Trial	2019	Irrelevant comparison: U/S guided steroid vs landmark guided steroid
Blair, W. F.; Goetz, D. D.; Ross, M. A.; Steyers, C. M.; Chang, P.	Carpal tunnel release with and without epineurotomy: a comparative prospective trial	1996	irrelevant comparison
Talebi, G. A.; Saadat, P.; Javadian, Y.; Taghipour, M.	Comparison of two manual therapy techniques in patients with carpal tunnel syndrome: A randomized clinical trial	2020	manual therapy vs. manual therapy
Incebiyik, S.; Boyaci, A.; Tutoglu, A.	Short-term effectiveness of short-wave diathermy treatment on pain, clinical symptoms, and hand function in patients with mild or moderate idiopathic carpal tunnel syndrome	2015	follow up period less than 1 month
Ercan, S.; Ataizi, Z. S.	Long-term Results of Two Different Surgical Techniques Used in Carpal Tunnel Syndrome	2021	irrelevant comparison
Katarzyna, K.; Glinkowski, W. M.	Patient-reported outcomes of carpal tunnel syndrome surgery in a non-industrial area	2019	Undefined comparison groups
Devana, S. K.; Jensen, A. R.; Yamaguchi, K. T.; D'Oro, A.; Buser, Z.; Wang, J. C.; Petrigliano, F. A.; Dowd, C.	Trends and Complications in Open Versus Endoscopic Carpal Tunnel Release in Private Payer and Medicare Patient Populations	2019	Very low quality
Bartkowiak, Z.; Elik, M.; Zgorzalewicz- Stachowiak, M.; Romanowski, L.	The Effects of Nerve and Tendon Gliding Exercises Combined with Low-level Laser or Ultrasound Therapy in Carpal Tunnel Syndrome	2019	Inappropriate follow-up time
Pattankar, S.; Roy, R.; Warade, A.; Desai, K.	Analysis of the Long-Term Outcome in Open Carpal Tunnel Release Surgeries with and without External Neurolysis of Median Nerve, Using Boston Carpal Tunnel Questionnaire (BCTQ)-Hindi Version	2021	open vs. open + external neurolysis
Guo, X. Y.; Xiong, M. X.; Lu, M.; Cheng, X. Q.; Wu, Y. Y.; Chen, S. Y.; Chen, K.; Zhou, Q. D.; Wang, L.; Tan, L.; Quan, J. R.; He, F. D.; Chen, Q.	Ultrasound-guided needle release of the transverse carpal ligament with and without corticosteroid injection for the treatment of carpal tunnel syndrome	2018	Same release technique; comparison of steroid vs. no steroid
Suwannaphisit, S.; Aonsong, W.; Suwanno, P.; Yuenyongviwat, V.	Comparing the running subcuticular technique versus the Donati technique in open carpal tunnel release: a randomized controlled trial	2021	Comparing running subcuticular suturing or Donati suturing after surgical intervention
Henning, P. T.; Yang, L.; Awan, T.; Lueders, D.; Pourcho, A. M.	Minimally Invasive Ultrasound-Guided Carpal Tunnel Release: Preliminary Clinical Results	2018	Outcomes given as a whole; no comparison to one another
Kharwadkar, N.; Naique, S.; Molitor, P. J.	Prospective randomized trial comparing absorbable and non-absorbable sutures in open carpal tunnel release	2005	irrelevant comparison: absorbable and non-absorbable sutures

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Armagan, O.; Bakilan, F.; Ozgen, M.; Mehmetoglu, O.; Oner, S.	Effects of placebo-controlled continuous and pulsed ultrasound treatments on carpal tunnel syndrome: a randomized trial	2014	follow-up period less than 1 month
Bhatia, R.; Field, J.; Grote, J.; Huma, H.	Does splintage help pain after carpal tunnel release?	2000	abstract only pdf
Sasor, S. E.; Evans, T. A.; Cook, J. A.; Lucich, E. A.; Wooden, W. A.; Tholpady, S. S.; Chu, M. W.	Assessing the Necessity of Stopping Antithrombotic Agents Before Wide-Awake Hand Surgery	2018	research letter only, not full text article
Wang, J. C.; Hsu, P. C.; Wang, K. A.; Chang, K. V.	Ultrasound-Guided Triamcinolone Acetonide Hydrodissection for Carpal Tunnel Syndrome: A Randomized Controlled Trial	2021	same drug different methods
Park, Y. D.; Park, Y. J.; Park, S. S.; Lee, H. L.; Moon, H. H.; Kim, M. K.	Effects of taping therapy for carpal space expansion on electrophysiological change in patients with carpal tunnel syndrome	2017	No outcomes of interest
Chesterton, L. S.; Dziedzic, K. S.; van der Windt, D. A.; Davenport, G.; Myers, H. L.; Rathod, T.; Blagojevic-Bucknall, M.; Jowet, S. M.; Burton, C.; Roddy, E.; Hay, E. M.	The clinical and cost effectiveness of steroid injection compared with night splints for carpal tunnel syndrome: the INSTINCTS randomised clinical trial study protocol	2016	Inappropriate outcomes of interest
Willis, F. B.; Fowler, B.	Longitudinal Outcomes Following a Randomized Controlled Trial of Dynamic Splint Stretching for Carpal Tunnel Syndrome	2016	Inappropriate outcomes of interest
Potuznik, P.; Hosek, P.; Kotas, R.	Median nerve ultrasonography examination correlates with electrodiagnostic studies for the diagnosis of moderate to severe carpal tunnel syndrome	2021	included already diagnosed CTS cases
Meric, G.; Basdelioglu, K.; Yanik, B.; Sargin, S.; Ulusal, A. E.	Posterior Border Distance: An Effective Diagnostic Measurement for Carpal Tunnel Syndrome Using Ultrasonography	2020	outcome not of our interest
Marschall, A.; Ficjian, A.; Stradner, M. H.; Husic, R.; Zauner, D.; Seel, W.; Simmet, N. E.; Klammer, A.; Heizer, P.; Brickmann, K.; Gretler, J.; Furst-Moazedi, F. C.; Thonhofer, R.; Hermann, J.; Graninger, W. B.; Quasthoff, S.; Dejaco, C.	The Value of Median Nerve Sonography as a Predictor for Short- and Long-Term Clinical Outcomes in Patients with Carpal Tunnel Syndrome: A Prospective Long-Term Follow-Up Study	2016	no outcomes of interest
Wang, W. L.; Buterbaugh, K.; Kadow, T. R.; Goitz, R. J.; Fowler, J. R.	A Prospective Comparison of Diagnostic Tools for the Diagnosis of Carpal Tunnel Syndrome	2018	Irrelevant comparison: gold standard is clinical diagnosis of surgeon

Authors	Article Title	Year	Reason for Exclusion
Trehan, S. K.; Lyman, S.; Ge, Y.; Do, H. T.; Daluiski, A.	Incidence of Nerve Repair Following Endoscopic Carpal Tunnel Release Is Higher Compared to Open Release in New York State	2019	irrelevant patient reported outcomes
Eroglu, U.; Ozgural, O.; Yakar, F.; Kahilogullari, G.	Endoscopic carpal tunnel decompression: Comparison of mid- and long-term outcomes of 30 endoscopic and 30 standard procedure carpal tunnel decompression operations	2017	irrelevant patient reported outcomes
Duman, S.; Sahin, V.; Sofu, H.; Camurcu, Y.; Ucpunar, H.	Can flexor tenosynovectomy and microsurgical epineurectomy improve clinical outcomes following open carpal tunnel release?	2017	Irrelevant PICO Intervention comparison
Dammers, J. W.; Roos, Y.; Veering, M. M.; Vermeulen, M.	Injection with methylprednisolone in patients with the carpal tunnel syndrome: a randomised double blind trial testing three different doses	2006	Irrelevant comparison: steroid dose vs. steroid dose
Dyer, G.; Lozano-Calderon, S.; Gannon, C.; Baratz, M.; Ring, D.	Predictors of acute carpal tunnel syndrome associated with fracture of the distal radius	2008	Irrelevant comparison: control group did not have CTS
Salman Roghani, R.; Hashemi, S. E.; Holisaz, M. T.; Gohari, F.; Delbari, A.; Lokk, J.	The diagnostic accuracy of median nerve ultrasonography in elderly patients with carpal tunnel syndrome: sensitivity and specificity assessment	2018	Irrelevant population: healthy control group
Chapman, T.; Kim, N.; Maltenfort, M.; Ilyas, A. M.	Prospective Evaluation of Opioid Consumption Following Carpal Tunnel Release Surgery	2017	Irrelevant outcomes: opioid consumption after walant vs. MAC
Tatar, I. G.; Kurt, A.; Yavasoglu, N. G.; Hekimoglu, B.	Carpal tunnel syndrome: elastosonographic strain ratio and cross-sectional area evaluation for the diagnosis and disease severity	2016	Irrelevant population: healthy control group vs CTS
Chung, V. C. H.; Ho, R. S. T.; Liu, S.; Chong, M. K. C.; Leung, A. W. N.; Yip, B. H. K.; Griffiths, S. M.; Zee, B. C. Y.; Wu, J. C. Y.; Sit, R. W. S.; Lau, A. Y. L.; Wong, S. Y. S.	Electroacupuncture and splinting versus splinting alone to treat carpal tunnel syndrome: a randomized controlled trial	2016	Duplicate of AAOS 1847
Michelotti, B.; Romanowsky, D.; Hauck, R. M.	Prospective, randomized evaluation of endoscopic versus open carpal tunnel release in bilateral carpal tunnel syndrome: an interim analysis	2014	Group distribution not included; missing information for extraction.
Makhlouf, T.; Emil, N. S.; Sibbitt, W. L., Jr.; Fields, R. A.; Bankhurst, A. D.	Outcomes and cost-effectiveness of carpal tunnel injections using sonographic needle guidance	2014	Irrelevant comparison: palpation guided vs. u/s guided injection of same steroid
Kwon, B. C.; Koh, S. H.; Hwang, S. Y.	Optimal parameters and location for diffusion-tensor imaging in the diagnosis of carpal tunnel syndrome: a prospective matched case-control study	2015	Irrelevant comparison: healthy control group, CTS patients with and without symptoms
Ly-Pen, D.; Andréu, J. L.; de Blas, G.; Sánchez-Olaso, A.; Millán, I.	Surgical decompression versus local steroid injection in carpal tunnel syndrome: a one-year, prospective, randomized, open, controlled clinical trial	2005	irrelevant comparison; surgical release vs. non-operative
Nathan, P. A.; Meadows, K. D.; Istvan, J. A.	Predictors of carpal tunnel syndrome: an 11-year study of industrial workers	2002	same sample as later follow up paper ID 8933



Authors	Article Title	Year	Reason for Exclusion
Lalchandani, G. R.; Halvorson, R. T.; Rahgozar, P.; Immerman, I.	Wide-Awake Local Anesthesia for Minor Hand Surgery Associated With Lower Opioid Prescriptions, Morbidity, and Costs: A Nationwide Database Study	2020	irrelevant comparison; no outcomes of interest. outcomes are for opioid use either for WALANT vs. General anesthesia which does not fit PICO 14 or PICO 5
Svegard, J.; Nordvall Persson, A.; Zetterlund, C.; Alkner, B.	Comparison of use of plaster casting versus elastic bandage following carpal tunnel release: a randomized controlled study	2021	restricted movement vs restricted movement
Grandizio, L. C.; Zhang, H.; Dwyer, C. L.; Goldberg, S. H.; Klena, J. C.	Opioid Versus Nonopioid Analgesia After Carpal Tunnel Release: A Randomized, Prospective Study	2021	opiod +acetaminophen vs. NSAID (Naproxen) + acetaminophen
Filius, A.; Scheltens, M.; Bosch, H. G.; van Doorn, P. A.; Stam, H. J.; Hovius, S. E.; Amadio, P. C.; Selles, R. W.	Multidimensional ultrasound imaging of the wrist: Changes of shape and displacement of the median nerve and tendons in carpal tunnel syndrome	2015	uses healthy control group
Ly-Pen, D.; Andréu, J. L.; Millán, I.; de Blas, G.; Sánchez-Olaso, A.	Comparison of surgical decompression and local steroid injection in the treatment of carpal tunnel syndrome: 2-year clinical results from a randomized trial	2012	Irrelevant comparison: op vs. nonop
Lowry, W. E., Jr.; Follender, A. B.	Interfascicular neurolysis in the severe carpal tunnel syndrome. A prospective, randomized, double-blind, controlled study	1988	open vs. open; same procedure, one group had adjunctive interfascicular neurolysis
Mackinnon, S. E.; McCabe, S.; Murray, J. F.; Szalai, J. P.; Kelly, L.; Novak, C.; Kin, B.; Burke, G. M.	Internal neurolysis fails to improve the results of primary carpal tunnel decompression	1991	irrelevant comparison; same procedure with one group receiving internal neurolysis
Pastare, D.; Therimadasamy, A. K.; Lee, E.; Wilder-Smith, E. P.	Sonography versus nerve conduction studies in patients referred with a clinical diagnosis of carpal tunnel syndrome	2009	Irrelevant Comparison: NCS vs. Clinical Diagnosis, Ultrasound vs. Clinical Diagnosis
Jerosch-Herold, C.; Shepstone, L.; Miller, L.	Sensory relearning after surgical treatment for carpal tunnel syndrome: a pilot clinical trial	2012	Irrelevant Intervention; Sensory Relearning
Onen, M. R.; Kayalar, A. E.; Ilbas, E. N.; Gokcan, R.; Gulec, I.; Naderi, S.	The Role of Wrist Magnetic Resonance Imaging in the Differential Diagnosis of the Carpal Tunnel Syndrome	2015	Patients already diagnosed with CTS via gold standard.
Gordon, C.; Johnson, E. W.; Gatens, P. F.; Ashton, J. J.	Wrist ratio correlation with carpal tunnel syndrome in industry	1988	Irrelevant Comparison: EMG vs. Wrist Ratio
Heller, L.; Ring, H.; Costeff, H.; Solzi, P.	Evaluation of Tinell's and Phalen's signs in diagnosis of the carpal tunnel syndrome	1986	Irrelevant Comparison: Clinical Tests vs. ENG
Wej, R.; Chen, C.; Liu, Y.; Liu, Z.; Xiong, H.; Zhang, X.; Zhuang, Y.	Endoscopic Release Superficial Rather Than Deep to the Transverse Carpal Ligament for Carpal Tunnel Syndrome Improves Immediate Postoperative Transient Symptomatic Exacerbation With Fewer Absences From Work	2022	Endoscopic one portal vs. two portal technique
Campistol, J. M.; Shirahama, T.; Abraham, C. R.	Demonstration of plasma proteinase inhibitors in $\beta$ 2-microglobulin amyloid deposits	1992	<10 cases (8 cases)

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Rodgers, O. G.; Sole, M.; Cohen, A. S.; Skinner, M.			
Van Ypersele de Strihou, C.; Jadoul, M.; Malghem, J.; Maldague, B.; Jamart, J.	Effect of dialysis membrane and patient's age on signs of dialysis-related amyloidosis	1991	doesn't answer pico question
Hurst, N. P.; Van den Berg, R.; Disney, A.; Alcock, M.; Albertyn, L.; Green, M.; Pascoe, V.	'Dialysis related arthropathy': A survey of 95 patients receiving chronic haemodialysis with special reference to $\beta$ 2 microglobulin related amyloidosis	1989	doesn't answer pico question
Oldrini, L. M.; Feltri, P.; Albanese, J.; Lucchina, S.; Filardo, G.; Candrian, C.	Volar locking plate vs cast immobilization for distal radius fractures: a systematic review and meta-analysis	2022	systematic review
Miyata, T.; Jadoul, M.; Kurokawa, K.; Van Ypersele De Strihou, C.	$\beta$ -2 microglobulin in renal disease	1998	narrative review
Luria, S.; Waitayawinyu, T.; Trumble, T. E.	Endoscopic revision of carpal tunnel release	2008	doesn't answer pico question
Krupa, R.; Suchanecka, M.; Mrozek, A.; Siwek, K.	Features of the flexor retinaculum and its individual variation in carpal tunnel syndrome predisposition - A systematic review	2022	
Chen, P. C.; Chuang, C. H.; Tu, Y. K.; Bai, C. H.; Chen, C. F.; Liaw, M. Y.	Erratum: A Bayesian network meta-analysis: Comparing the clinical effectiveness of local corticosteroid injections using different treatment strategies for carpal tunnel syndrome	2015	meta-analysis
Eberlin, K. R.; Dy, C. J.; Fischer, M. D.; Gluck, J. L.; Kaplan, F. T. D.; McDonald, T. J.; Miller, L. E.; Palmer, A.; Walker, M. E.; Watt, J. F.	Trial of ultrasound guided carpal tunnel release versus traditional open release (TUTOR)	2022	Study protocol
Lai, S.; Zhang, K.; Li, J.; Fu, W.	Carpal tunnel release with versus without flexor retinaculum reconstruction for carpal tunnel syndrome at short- and long-term follow up—A meta-analysis of randomized controlled trials	2019	systematic review
Boggins-Magill, M. K.	Carpal tunnel release: scoping out the carpal tunnel	1994	narrative review
Park, J.; Kim, I. J.; Park, H. Y.; Heo, D. J.; Kim, J. M.	A clinical study of thread carpal tunnel release with a newly developed thread: A retrospective pilot study	2022	Irrelevant comparison: thread CTR for both groups - commercial thread vs. Smartwire-01
Jimenez-Del-Barrio, S.; Ceballos-Laita, L.; Bueno-Gracia, E.; Rodriguez-Marco, S.; Caudevilla-Polo, S.; Estebanez-de-Miguel, E.	Diacutaneous Fibrolysis Intervention in Patients with Mild to Moderate Carpal Tunnel Syndrome May Avoid Severe Cases in Elderly: A Randomized Controlled Trial	2022	Follow up criteria not met; f/u only 2 weeks

Authors	Article Title	Year	Reason for Exclusion
Mondelli, M.; Rossi, S.; Monti, E.; Aprile, I.; Caliandro, P.; Pazzaglia, C.; Romano, C.; Padua, L.	Long term follow-up of carpal tunnel syndrome during pregnancy: a cohort study and review of the literature	2007	doesn't answer pico question
Watanabe, T.; Koyama, T.; Yamada, E.; Nimura, A.; Fujita, K.; Sugiura, Y.	The accuracy of a screening system for carpal tunnel syndrome using hand drawings	2021	doesn't answer pico question
Westin, O. M.; Butt, J. H.; Gustafsson, F.; Kober, L.; Vinther, M.; Maurer, M. S.; Fosbol, E. L.	Carpal Tunnel Syndrome in Patients Who Underwent Pacemaker Implantation and Relation to Amyloidosis, Heart Failure, and Mortality	2022	Irrelevant population: patients undergoing pacemaker surgery
Tatar, I. G.; Kurt, A.; Yavasoglu, N. G.; Hekimoglu, B.	Carpal tunnel syndrome: Elastasonographic strain ratio and crosssectional area evaluation for the diagnosis and disease severity	2016	doesn't answer pico question
Atthakomol, P.; Kaensuk, S.; Manosroi, W.; Sangsin, A.; Buntragulpoontawee, M.; Tongprasert, S.	Short incision versus minimally invasive surgery with tool-kit for carpal tunnel syndrome release: a prospective randomized control trial to evaluate the anterior wrist pain and time to return to work or activities	2022	Follow up criteria not met; f/u only 2 weeks
Dwyer, E. P.; Da Lomba, T.; Mica, M. C.	Procedural Technique for Wide Awake Local Anesthesia No Tourniquet Injection for Endoscopic Carpal Tunnel Release	2022	surgical technique description
Li, J.; Kou, Y.; Zhang, S.; Wang, K.	Effect of Acupotomy Combined with Electroacupuncture Therapy on Finger Mobility and Pain Relief in Patients with Carpal Tunnel Syndrome	2022	Follow up criteria not met; f/u only 2 weeks
Paladino, J.; Townsend, C. B.; Ly, J.; Judy, R.; Conroy, C.; Bhatt, S.; Abdelfattah, H.; Solarz, M.; Wozzley, K.; Ilyas, A. M.	Multiple Opioid Prescribers During the Perioperative Period Increases Opioid Consumption Following Upper Extremity Surgery: A Multicenter Analysis	2022	irrelevant comparison; does not stratify by CTS release
de Roo, S. F.; Teunissen, J. S.; Rutten, Mjcm; van der Heijden, Bepa	Tourniquet Does Not Affect Long-term Outcomes in Minor Hand Surgery: A Randomized Controlled Trial	2022	irrelevant comparison
Nguyen, T. T.; Duong, K.; Tran, S. Q.; Dang, K. D.; Ly, H.; Nguyen, B.	Two-port Endoscopic Surgery for Carpal Tunnel Syndrome - A Prospective Cohort Study	2022	cohort study, no groups to compare. one surgical technique for whole population.
Wang, J. C.; Li, C. Y.; Ko, P. Y.; Wu, T. T.; Wu, K. C.; Su, F. C.; Jou, I. M.; Wu, P. T.	The Correlation of Carpal Tunnel Pressure with Clinical Outcomes following Ultrasonographically-Guided Percutaneous Carpal Tunnel Release	2022	No comparison group
Prabhakar, G.; Ghali, A.; Momtaz, D.; Rose, R.	Socioeconomic Status Affects Pre- and Postoperative Two-point Discrimination in Patients with Carpal Tunnel Syndrome	2022	irrelevant comparison. surgery technique not compared.
Hajibarati, B.; Molaie, H.; Hasanzadeh, A.; Ahmazade, A.	Carpal Tunnel Syndrome: Open or Endoscopic Release Surgery Method?	2022	only 6 week follow up for surgical treatment

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Mirshahi, M.; Abdorrazzaghi, H.			
Pimentel, V. S.; Artoni, B. B.; Faloppa, F.; Belloti, J. C.; Tamaoki, M. J. S.; Pimentel, B. F. R.	Prevalence of Anatomical Variations in Patients with Carpal Tunnel Syndrome Undergoing Classical Open Carpal Tunnel Release	2022	no comparison group
Razavipour, M.; Ghaffari, S.; Ghadiri, A.	Clinical Outcomes of Median Nerve Release in Carpal Tunnel Syndrome with and without Cervical Radiculopathy	2021	irrelevant comparison
Azadvari, M.; Haghshomar, M.; Feyjani, F. A.; Abdolrazagh, H.; Razavi, S. Z. E.; Tayebi, O.	Demographical, anatomical, disease-related, and occupational risk factors for carpal tunnel syndrome	2021	irrelevant population
Bay, K.; Gustafsson, F.; Maiborg, M.; Bagger-Bahnsen, A.; Strand, A. M.; Pilgaard, T.; Poulsen, S. H.	Suspicion, screening, and diagnosis of wild-type transthyretin amyloid cardiomyopathy: a systematic literature review	2022	irrelevant population
Escrache-Escuder, A.; Cuesta-Vargas, A. I.; Casana, J.	Modelling and in vivo evaluation of tendon forces and strain in dynamic rehabilitation exercises: a scoping review	2022	irrelevant comparison
Ahmed, A.; Malik, G.; Imtiaz, H.; Riaz, R.; Badshah, M.; Zameer, S.	Assessment Of Carpal Tunnel Syndrome With Ultrasonography	2022	Irrelevant population: only patients with + NCS scores included, as well as 50 healthy controls.
Shije, J. Z.; Bautista, M. A. B.; Smotherman, C.	The Frequency of V122I Transthyretin Mutation in a Cohort of African American Individuals With Bilateral Carpal Tunnel Syndrome	2022	No comparison group
Hathaiareerug, C.; Somnam, S.; Kummerdee, W.; Phongamwong, C.	Cross-sectional Area Ratio of Median-to-Ulnar and Median-to-Superficial Radial Nerve at the Wrist for Diagnosis of Carpal Tunnel Syndrome	2022	Irrelevant population: already diagnosed patients with CTS vs healthy controls
Chen, K. T.; Chen, Y. P.; Kuo, Y. J.; Chiang, M. H.	Extracorporeal Shock Wave Therapy Provides Limited Therapeutic Effects on Carpal Tunnel Syndrome: A Systematic Review and Meta-Analysis	2022	Bib review complete
Li, T.; Yan, J.; Hu, J.; Liu, X.; Wang, F.	Efficacy and safety of electroacupuncture for carpal tunnel syndrome (CTS): A systematic review and meta-analysis of randomized controlled trials	2022	systematic review, bib review complete
Burton, C. L.; Rathod-Mistry, T.; Blagojevic-Bucknall, M.; Chesterton, L. S.; Davenport, G.; Dziedzic, K. S.; Jowett, S. M.; Myers, H. L.; Oppong, R. A.; Van Der Windt, D. A.; et al.,	The clinical and cost-effectiveness of corticosteroid injection versus night splints for carpal tunnel syndrome: 24-month follow-up of an open-label, parallel group, randomised controlled trial	2020	not a complete article
Yasak, T.; Ozkaya, O.; Ergan Sahin, A.; Colak, O.	Electromyographic and Clinical Investigation of the Effect of Platelet-Rich Plasma on Peripheral Nerve Regeneration in Patients with Diabetes after Surgery for Carpal Tunnel Syndrome	2022	Irrelevant comparison: PRP injection vs. no injection after CTS surgery

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Song, J. M.; Kim, J.; Chae, D. J.; Park, J. B.; Lee, Y. J.; Hwang, C. M.; Shin, J.; Hong, M. J.	Correlation between Electrodiagnostic Study and Imaging Features in Patients with Suspected Carpal Tunnel Syndrome	2022	no outcomes of interest
Heiling, B.; Wiedfeld, Liee; Muller, N.; Kobler, N. J.; Grimm, A.; Kloos, C.; Axer, H.	Electrodiagnostic Testing and Nerve Ultrasound of the Carpal Tunnel in Patients with Type 2 Diabetes	2022	Irrelevant population: inclusion criteria was t2d, not cts
Kocaoglu, S.; Esmer, A.; Okumus, M.; Ozturk, E.; Kaygisiz, F.; Demir, G.	The kinesio taping; Local anesthetic/steroid injection and splinting in the treatment of patients with carpal tunnel syndrome: a clinical and electrophysiological study	2017	not a "full article report of a clinical study
Badil Guloglu, S.; Bilgiliyoz Filiz, M.; Kilic, K. K.; Koldas Dogan, S.; Erdem Toslak, I.; Toraman, N. F.	Comparison of the effectiveness of low level laser therapy and steroid injection in moderate carpal tunnel syndrome: a randomised controlled trial	2018	not a "full article report of a clinical study
Sasaki, T.; Koyama, T.; Kuroiwa, T.; Nimura, A.; Okawa, A.; Wakabayashi, Y.; Fujita, K.	Evaluation of the Existing Electrophysiological Severity Classifications in Carpal Tunnel Syndrome	2022	no outcomes of interest
Raeissadat, S. A.; Sedighipour, L.; Shahraeeni, S.	Local progesterone injection: new option for management of carpal tunnel syndrome	2017	not a "full article report of a clinical study
Karatas, O.; Catal, S.; Gokmen, E. A.; Samanci, N.	Treatment of carpal tunnel syndrome (CTS) with ESWT: a sham controlled double blinded randomised study	2017	not a "full article report of a clinical study
Doirado, M.; Le Sache, F.; Thomsen, L.; Aziz, G.; Naudin, C.; Merzoug, M.; Barouk, D.; Bucciero, M.; James, A.; Quemeneur, C.; et al.,	Walant technique improves the efficiency of distal nerve blocks for carpal tunnel release	2021	not a "full article report of a clinical study
Salih, S. S.	Assessment of therapeutic efficacy of wrist splint in the management of Carpal Tunnel Syndrome (CTS) literature review	2016	Review complete
Fisher, H.; Maeda, Y.; Kettner, N.; Sclocco, R.; Kim, J.; Malatesta, C.; Gerber, J.; Audette, J.; Napadow, V.	Acupuncture alters primary somatosensory cortex functional connectivity in carpal tunnel syndrome	2019	not a "full article report of a clinical study
Bagherzadeh, L.; Raeissadat, S. A.; Karimzadeh, A.; Hashemi, M.	Title: safety and efficacy of platelet-rich plasma in treatment of carpal tunnel syndrome; a randomised controlled trial	2018	not a "full article report of a clinical study
Abu-Zaid, M. H.; El morsy, S.; Hablas, S. A.	Local steiod and insulin injection in management of carpal tunnel syndrome; a comparative study	2017	not a "full article report of a clinical study
Elsebaie, M. A.; Elarousi, N. H.;	The effect of perineural injection in the treatment of carpal tunnel syndrome	2020	not a "full article report of a clinical study

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Elattar, E. A.; Mohamed, A. A.			
Martin-Vega, F. J.; Vinolo-Gil, M. J.; Perez-Cabezas, V.; Rodriguez-Huguet, M.; Garcia-Munoz, C.; Gonzalez Medina, G.	Use of Sonophoresis with Corticosteroids in Carpal Tunnel Syndrome: Systematic Review and Meta-Analysis	2022	systematic review: bib review complete
Hassan, A.; Beumer, A.; Kuijjer, Pfm; van der Molen, H. F.	Work-relatedness of carpal tunnel syndrome: Systematic review including meta-analysis and GRADE	2022	Bib review complete
Jiang, J.; Xing, F.; Luo, R.; Liu, M.	Effectiveness of Platelet-Rich Plasma for Patients With Carpal Tunnel Syndrome: A Systematic Review and meta-Analysis of Current Evidence in Randomized Controlled Trials	2022	systematic review: bib review complete
Schafer, L.; Maffulli, N.; Baroncini, A.; Eschweiler, J.; Hildebrand, F.; Migliorini, F.	Local Corticosteroid Injections versus Surgical Carpal Tunnel Release for Carpal Tunnel Syndrome: Systematic Review and Meta-Analysis	2022	systematic review: irrelevant comparison
Chen, S.; Qian, Y.; Sun, Z.; Liu, W.; Sun, G.; Liu, J.; Wang, J.; Wang, W.; Zheng, Y.; Fan, C.	Effectiveness of therapeutic ultrasound for the treatment of carpal tunnel syndrome (the USTINCTS trial): study protocol for a three-arm, prospective, multicentre, randomised controlled trial	2022	study has not occurred yet
Dong, C.; Zhu, Y.; Zhou, J.; Dong, L.; Hu, L.	Comparison of Distal and Proximal Local Steroid Injection for Carpal Tunnel Syndrome: a Systematic Review and Meta-analysis of Randomized Controlled Trials	2022	systematic review: irrelevant comparison
Huang, Y. T.; Chen, C. J.; Wang, Y. W.; Peng, P. L.; Luo, Y. T.; Horng, Y. S.	Ultrasonographical Evaluation of the Median Nerve Mobility in Carpal Tunnel Syndrome: A Systematic Review and Meta-Analysis	2022	Bib review complete
Paramasivam, S. K.; Kumar, C. S.	PND3 Patient-Reported Outcomes Following Neuromanual Therapy For Carpal Tunnel Syndrome-Comparison Of Four Patient & Healthcare Outcome Measures In A Randomized Clinical Trial	2020	Abstract Only
Ng, A. J. T.; Chandrasekaran, R.; Prakash, A.; Mogali, S. R.	A systematic review: normative reference values of the median nerve cross-sectional area using ultrasonography in healthy individuals	2022	Bib review complete
Bakhtiary, A. H.; Fatemi, E.; Emami, M.; Malek, M.	Comparison of dexamethazone iontophoresis and phonophoresis in the treatment of carpal tunnel syndrome	2011	Abstract Only
Gu, Y.; Lu, F.; Cui, S.; Zhao, H.; Yuan, Z.	Clinical Value Analysis of High-Frequency Ultrasound Combined with Carpal Dorsiflexion Electrophysiological Detection in the Diagnosis of Early Carpal Tunnel Syndrome	2022	healthy control group, no outcomes of interest
Shabbir, S.; Naeem, F.; Aroob, A.	Comparative Effects of Neurodynamics With and Without Wrist Splint in patients with Carpal Tunnel Syndrome	2022	Follow-up time less than one month
Nalbant, M.; Umit Yemisci, O.; Ozen, S.; Tezcan, S.	Ultrasonographic and electrophysiological outcomes of carpal tunnel syndrome treated with low-level laser therapy: A double-blind, prospective, randomized, sham-controlled study	2022	<1 month follow up (3 weeks)

Authors	Article Title	Year	Reason for Exclusion
Choi, G. H.; Wieland, L. S.; Lee, H.; Sim, H.; Lee, M. S.; Shin, B. C.	Acupuncture and related interventions for the treatment of symptoms associated with carpal tunnel syndrome	2018	systematic review; bib review complete
Ozer, H.; Solak, S.; Oguz, T.; Ocguder, A.; Colakoglu, T.; Babacan, A.	Alkalinisation of local anaesthetics prescribed for pain relief after surgical decompression of carpal tunnel syndrome	2005	no outcomes of interest
Dejaco, C.; Stradner, M.; Zauner, D.; Seel, W.; Simmet, N. E.; Klammer, A.; Heitzer, P.; Brickmann, K.; Gretler, J.; Fürst-Moazedi, F. C.; Thonhofer, R.; Husic, R.; Hermann, J.; Graninger, W. B.; Quasthoff, S.	Ultrasound for diagnosis of carpal tunnel syndrome: comparison of different methods to determine median nerve volume and value of power Doppler sonography	2013	Healthy Control Group
Pimentel, B. F. R.; Faloppa, F.; Tamaoki, M. J. S.; Belloti, J. C.	Effectiveness of ultrasonography and nerve conduction studies in the diagnosing of carpal tunnel syndrome: clinical trial on accuracy	2018	Irrelevant Comparison
Deniz, F. E.; Oksüz, E.; Sarikaya, B.; Kurt, S.; Erkorkmaz, U.; Ulusoy, H.; Arslan, S.	Comparison of the diagnostic utility of electromyography, ultrasonography, computed tomography, and magnetic resonance imaging in idiopathic carpal tunnel syndrome determined by clinical findings	2012	Irrelevant Comparison
Duquette, S.; Nosrati, N.; Cohen, A.; Munshi, I.; Tholpady, S.	Decreased wait times after institution of office-based hand surgery in a Veterans Administration setting	2015	letter to editor, not peer-reviewed
Atroshi, I.; Hofer, M.; Larsson, G. U.; Ranstam, J.	Extended Follow-up of a Randomized Clinical Trial of Open vs Endoscopic Release Surgery for Carpal Tunnel Syndrome	2015	letter to editor
Ali, K. M.; Sathiyasekaran, B. W.	Computer professionals and Carpal Tunnel Syndrome (CTS)	2006	very low quality
Coggon, D.; Ntani, G.; Harris, E. C.; Linaker, C.; Van der Star, R.; Cooper, C.; Palmer, K. T.	Differences in risk factors for neurophysiologically confirmed carpal tunnel syndrome and illness with similar symptoms but normal median nerve function: a case-control study	2013	very low quality
Hakim, A. J.; Cherkas, L.; El Zayat, S.; MacGregor, A. J.; Spector, T. D.	The genetic contribution to carpal tunnel syndrome in women: a twin study	2002	very low quality
Nathan, P. A.; Istvan, J. A.; Meadows, K. D.	A longitudinal study of predictors of research-defined carpal tunnel syndrome in industrial workers: findings at 17 years	2005	very low quality
Samoës, R.; Taipa, R.; Valdez, K.; Gonçalves, I.; Melo Pires, M.; Martins da Silva, A.; Coelho, T.	Amyloid detection in the transverse carpal ligament of patients with hereditary ATTR V30M amyloidosis and carpal tunnel syndrome	2017	Sample sizes too small, <10 (16 patients total in study)
Neo, E. J. R.; Shan, N. T.; Tay, S. S.	Hydrodissection for carpal tunnel syndrome: A systematic review	2021	systematic review; bib review complete

Authors	Article Title	Year	Reason for Exclusion
Ciloglu, O.; Gorgulu, F. F.	Which Ultrasound Parameter Is More Accurate in the Diagnosis of Carpal Tunnel Syndrome: Cross-Sectional Area, Resistive Index, or Strain Ratio?	2020	used a control group, does not fit PICO comparison group
Hong, J. P.; Lew, H. L.; Lee, C. H.; Tang, S. F.	Ultrasound-Guided Injection for the Treatment of Carpal Tunnel Syndrome	2015	Review article
Azadeh, A.; Vasaghi, A.; Jalli, R.; Emad, M.	Comparison of Inching Electrodiagnosis Method and Ultrasonographic Findings in the Determination of Median Nerve Entrapment Site in Carpal Tunnel Syndrome	2017	Irrelevant comparison: already diagnosed CTS patients vs healthy controls
Kamel, S. I.; Freid, B.; Pomeranz, C.; Halpern, E. J.; Nazarian, L. N.	Minimally Invasive Ultrasound-Guided Carpal Tunnel Release Improves Long-Term Clinical Outcomes in Carpal Tunnel Syndrome	2021	No comparison group - all patients received U/S guided CTR
MacDonald, E.; Rea, P. M.	A Systematic Review of Randomised Control Trials Evaluating the Efficacy and Safety of Open and Endoscopic Carpal Tunnel Release	2022	systematic review; bib review complete
Hsu, Y. C.; Yang, F. C.; Hsu, H. H.; Huang, G. S.	Diffusion tensor imaging findings of the median nerve before and after carpal tunnel corticosteroid injection in patients with carpal tunnel syndrome: a preliminary study	2019	Sample sizes too small, <10; no comparison group
Elmaraghy, M. W.; Hurst, L. N.	Single-portal endoscopic carpal tunnel release: agee carpal tunnel release system	1996	update PICO published before 2015, captured in 2016
Richardson, D.; Lawless, K.; Ranjan, I.; Renfree, K. J.	Improvement in Patient-Specific Outcomes After Carpal Tunnel Release in Patients Older Than 80 Years	2016	irrelevant comparison
Lee, C. H.; Lin, Y. T.; Wu, C. T.; Lin, C. H.; Chen, S. H.; Hsu, C. C.	Sonoelastography in the Diagnosis of Carpal Tunnel Syndrome: A Systematic Review of Diagnostic Values Compared With the Normative Population	2021	systematic review; bib review complete
Lee, J. K.; Yoon, B. N.; Cho, J. W.; Ryu, H. S.; Han, S. H.	Carpal Tunnel Release Despite Normal Nerve Conduction Studies in Carpal Tunnel Syndrome Patients	2021	No outcomes of interest per PICO
Okhovatpour, M. A.; Sharifzadeh, S. R.; Shahrezaee, M.	The effectiveness of minimal incision operation method with local anesthesia and moderate sedation in patients with carpal tunnel syndrome	2018	no comparison group
Kurtul, S.; Mazican, N.	Prevalence and risk factors for self-reported symptoms of carpal tunnel syndrome among hospital office workers: a cross-sectional study	2022	No control group - all workers studied were office workers
Piper, S.; Shearer, H. M.; Cote, P.; Wong, J. J.; Yu, H.; Varatharajan, S.; Southerst, D.; Randhawa, K. A.; Sutton, D. A.; Stupar, M.; Nordin, M. C.; Mior, S. A.; van der Velde, G. M.; Taylor-Vaisey, A. L.	The effectiveness of soft-tissue therapy for the management of musculoskeletal disorders and injuries of the upper and lower extremities: A systematic review by the Ontario Protocol for Traffic Injury management (OPTIMa) collaboration	2016	Systematic review; bib review complete
Nam, K.; Peterson, S. M.; Wessner, C. E.; Machado, P.; Forsberg, F.	Diagnosis of Carpal Tunnel Syndrome using Shear Wave Elastography and High-frequency Ultrasound Imaging	2021	Irrelevant comparison: already diagnosed CTS patients vs healthy controls
Boya, H.; Özcan, Ö; Öztekin, H. H.	Long-term complications of open carpal tunnel release	2008	update PICO published before 2015, captured in 2016



Authors	Article Title	Year	Reason for Exclusion
Hooper, R. C.; Nasser, J. S.; Huetteman, H. E.; Mack, S. J.; Chung, K. C.	Postoperative follow-up time and justification in prospective hand surgery research: a systematic review	2020	systematic review; bib review complete
Niepel, A. L.; Hellekes, D.; Sokullu, F.; Steinkellner, L.; Kömürücü, F.	Pre-operative grip force as clinical predictor for weakness after transversal carpal ligament release	2019	not relevant; does not answer pico question
Ashe, M.	Carpal tunnel syndrome in the pharmacy	2004	narrative review
Franke, T. P.; Koes, B. W.; Geelen, S. J.; Huisstede, B. M.	Do Patients With Carpal Tunnel Syndrome Benefit From Low-Level Laser Therapy? A Systematic Review of Randomized Controlled Trials	2018	Systematic review; bib review completed
Tu, I. T.; Jou, I. M.; Ko, P. Y.; Lee, J. S.; Kuo, L. C.; Li, C. Y.; Wu, P. T.	Diagnosis of Carpal Tunnel Syndrome in Patients Without Diabetes With Hemodialysis Using Ultrasonography: Is It a Useful Adjunctive Tool?	2021	Irrelevant topic: hemodialysis related CTS
Huisstede, B. M.; Hoogvliet, P.; Franke, T. P.; Randsdorp, M. S.; Koes, B. W.	Carpal Tunnel Syndrome: Effectiveness of Physical Therapy and Electrophysical Modalities. An Updated Systematic Review of Randomized Controlled Trials	2018	systematic review; bib review complete
Catapano, M.; Catapano, J.; Borschel, G.; Alavinia, S. M.; Robinson, L. R.; Mittal, N.	Effectiveness of Platelet-Rich Plasma Injections for Nonsurgical Management of Carpal Tunnel Syndrome: A Systematic Review and Meta-analysis of Randomized Controlled Trials	2020	systematic review; bib review complete
Babaei-Ghazani, A.; Roomizadeh, P.; Forogh, B.; Moeini-Taba, S. M.; Abedini, A.; Kadkhodaie, M.; Jahanjoo, F.; Eftekharsadat, B.	Ultrasound-Guided Versus Landmark-Guided Local Corticosteroid Injection for Carpal Tunnel Syndrome: A Systematic Review and Meta-Analysis of Randomized Controlled Trials	2018	Systematic review; bib review completed
Baker, N. A.; Dole, J.; Roll, S. C.	Meta-synthesis of Carpal Tunnel Syndrome Treatment Options: Developing Consolidated Clinical Treatment Recommendations to Improve Practice	2021	systematic review; bib review complete
Anonymous,	Carpal tunnel release	2020	not a clinical study
Pereira, A.; Hendriks, S.; Facca, S.; Bodin, F.; Gay, A.; Liverneaux, P.	Evaluation of a new tourniquet for hand surgery: Comparison of 76 carpal tunnel syndrome cases operated using a HemaClear( R) Model-F tourniquet versus a pneumatic tourniquet	2015	Original language: French
Evers, S.; Bryan, A. J.; Sanders, T. L.; Selles, R. W.; Gelfman, R.; Amadio, P. C.	Effectiveness of Ultrasound-Guided Compared to Blind Steroid Injections in the Treatment of Carpal Tunnel Syndrome	2017	inappropriate comparison
Toosi, K. K.; Hogaboom, N. S.; Oyster, M. L.; Boninger, M. L.	Computer keyboarding biomechanics and acute changes in median nerve indicative of carpal tunnel syndrome	2015	Biomechanical study
Robben, E.; Dever, J.; De Groef, A.; Degreef, I.; Peers, K.	Subsynovial connective tissue thickness in carpal tunnel syndrome: A systematic review	2020	systematic review; bib review complete
Hohenberger, G. M.; Maier, M. J.; Grechenig, C.;	Carpal tunnel release: Safe and simple identification of the flexor retinaculum based on superficial anatomical landmarks	2017	cadaver study

Authors	Article Title	Year	Reason for Exclusion
Schwarz, A. M.; Matzi, V.; Weiglein, A. H.			
Marshall, S.	Carpal tunnel syndrome	2003	literature review
Nagura, I.; Kanatani, T.; Harada, Y.; Takase, F.; Inui, A.; Mifune, Y.; Kuroda, R.	Preoperative Evaluation of Thenar Muscles in Carpal Tunnel Syndrome by Ultrasonography	2022	Irrelevant topic: Study conducted on patients already diagnosed with CTS
Hutchison, R. L.; Hutchison, A. L.; Hirthler, M. A.	An Experimental Survey on the Effect of Using the CTS-6 Tool on the Diagnosis of Carpal Tunnel Syndrome by Hand Surgeons	2017	Irrelevant topic: experimental survey completed by hand surgeons
Torres-Costoso, A.; Martinez-Vizcaino, V.; Alvarez-Bueno, C.; Ferri-Morales, A.; Cavero-Redondo, I.	Accuracy of Ultrasonography for the Diagnosis of Carpal Tunnel Syndrome: A Systematic Review and Meta-Analysis	2018	Systematic review; bib review completed
Zaher, A. A.; Mattar, M. A.; Gomaa, M.; Zaher, A. A.	Value of contemporary investigation tools in management of carpal tunnel syndrome	2012	update PICO published before 2015, captured in 2016
Dandinoglu, T.; Karadeniz, M.; Yilmaz, V.; Tekin, L.; Dincer, U.	Evaluating neuropathic complaints by DN4 and LANSS scales after local corticosteroid therapy in carpal tunnel syndrome	2016	No comparison group
Vilai, P.; Dhanachanvisith, N.; Kongmalai, P.	Efficacy of Preemptive Analgesia on Tourniquet and Postoperative Pain Relief in Open Carpal Tunnel Release: A Prospective Randomized Control Trial	2022	Outcomes assessed only up to 48 hrs postop (criteria states min. 3 mo)
Wieland, L. S.	Acupuncture and Related Interventions for the Treatment of Symptoms Associated with Carpal Tunnel Syndrome: Summary of a Cochrane Review	2019	systematic review; summary
Jiwa, N.; Abraham, A.; Bril, V.; Katzberg, H. D.; Lovblom, L. E.; Barnett, C.; Breiner, A.	The median to ulnar cross-sectional surface area ratio in carpal tunnel syndrome	2018	Irrelevant comparison: already diagnosed CTS patients vs healthy controls
Sung, J. H.; Kwon, Y. J.; Baek, S. H.; Son, M. H.; Lee, J. H.; Kim, B. J.	Utility of shear wave elastography and high-definition color for diagnosing carpal tunnel syndrome	2022	Irrelevant comparison: already diagnosed CTS patients vs healthy controls
Hupalo, M.; Smigielski, J.; Fortuniak, J.; Jaskolski, D. J.	Value of oxynurography, based on near infrared spectroscopy, in the diagnosis of carpal tunnel syndrome in comparison to provocative clinical diagnostic tests and nerve conduction studies	2018	irrelevant comparison
Umay, S. T.; Analan, P. D.	Gray Scale Histogram Analysis of Carpal Tunnel Syndrome with Ultrasonography	2019	irrelevant comparison
Gonzalez, N. L.; Hobson-Webb, L. D.	The Role of Imaging for Disorders of Peripheral Nerve	2021	narrative review
Goswami, R. P.; Sit, H.; Chatterjee, M.; Lahiri, D.; Sircar, G.; Ghosh, P.	High-resolution ultrasonography in carpal tunnel syndrome: role of ancillary criteria in diagnosis and response to steroid injection	2021	Irrelevant comparison: CTS patients vs non-CTS patients
Wang, H.; Zhu, Y.; Wei, H.; Dong, C.	Ultrasound-guided local corticosteroid injection for carpal tunnel syndrome: A meta-analysis of randomized controlled trials	2021	systematic review; bib review complete

Authors	Article Title	Year	Reason for Exclusion
Bao, H.; Wu, C.; Wang, S.; Wang, G.; Zhang, X.; Zhang, X.; Wu, L.	Diffusion-weighted magnetic resonance neurography for the diagnosis of carpal tunnel syndrome: a pilot study	2017	Irrelevant comparison: already diagnosed CTS patients vs healthy controls
Liu, C.; Li, H. W.; Wang, L.; Zhu, L.; Jiang, X. F.; Yang, M. J.; Li, B.; Zhang, C.; Yang, H. F.; Xu, X. X.	Optimal parameters and location for diffusion tensor imaging in the diagnosis of carpal tunnel syndrome: a meta-analysis	2018	Systematic review; bib review completed
Pollack-Simon, R.	Ergonomics in the dental office	2000	update PICO published before 2015, captured in 2016
Seitz Jr, W. H.; Lall, A.	Open carpal tunnel release with median neurolysis and Z-plasty reconstruction of the transverse carpal ligament	2013	update PICO published before 2015, captured in 2016
Xie, Y.; Zhang, C.; Liang, B.; Wang, J.; Wang, L.; Wan, T.; Xu, F.; Lei, L.	Effects of shock wave therapy in patients with carpal tunnel syndrome: a systematic review and meta-analysis	2022	systematic review; bib review complete
Deng, H.; Lu, B.; Yin, C.; Xu, Y.; Ding, Y.; Mi, Y.; Xu, P.	The Effectiveness of Ultrasonography in the Diagnosis of Spontaneous Hourglasslike Constriction of Peripheral Nerve in the Upper Extremity	2020	not all patients had CTS; no comparison group
Lin, C. P.; Chen, I. J.; Chang, K. V.; Wu, W. T.; Ozcakar, L.	Utility of Ultrasound Elastography in Evaluation of Carpal Tunnel Syndrome: A Systematic Review and Meta-analysis	2019	Systematic review; bib review complete
Farias Zuniga, A.; Keir, P. J.	Thirty Minutes of Sub-diastolic Blood Flow Occlusion Alters Carpal Tunnel Tissue Function and Mechanics	2022	Irrelevant topic: are vascular mechanisms responsible for CTS development; population consists of healthy participants with 0 evidence of CTS
Hui, A. C. F.; Wong, S. M.	Treatment options for carpal tunnel syndrome	2005	update PICO published before 2015, captured in 2016
Labeeb, A.; Serag, D. M.; Latif, A. A. R. A.; Fotoh, D. S.	Clinical, electrophysiological, and ultrasound evaluation for early detection of musculoskeletal hand disorders and nerve entrapment in mobile phone users	2021	assessing early detection of musculoskeletal disorders not specifically CTS.
Peng, P. W.; Coleman, M. M.; McCartney, C. J.; Krone, S.; Chan, V. W.; Kaszas, Z.; Vucemilo, I.	Comparison of anesthetic effect between 0.375% ropivacaine versus 0.5% lidocaine in forearm intravenous regional anesthesia	2002	only 13 patients had CTS
Bartova, V.; Zima, T.	Diagnosis and treatment of carpal tunnel syndrome	1993	update PICO published before 2015, captured in 2016
Reuben, S. S.; Duprat, K. M.	Comparison of wound infiltration with ketorolac versus intravenous regional anesthesia with ketorolac for postoperative analgesia following ambulatory hand surgery	1996	irrelevant comparison; doesn't answer pico question
Dieguez-Garcia, P.; Lopez-Alvarez, S.; Juncal, J.; Lopez, A. M.; Sala-Blanch, X.	Comparison of the effectiveness of circumferential versus non-circumferential spread in median and ulnar nerve blocks. A double-blind randomized clinical trial	2020	no outcomes of interest: irrelevant comparison
Llopis, E.; Restrepo, R.; Kassarian, A.; Cerezal, L.	Overuse Injuries of the Wrist	2019	narrative review
LiBrizzi, C. L.; Rojas, J.; Srikumaran, U.;	Neurologic complications after primary anatomic or reverse total shoulder arthroplasty	2020	irrelevant topic: total shoulder arthroplasty

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Joseph, J.; McFarland, E. G.			
Ingari, J. V.; Romeo, N.	Basal Joint Arthroplasty and Radial-sided Carpal Tunnel Release Using a Single Incision	2015	No comparison group; >10 patients per group; Radial sided carpal tunnel release
Li, Y. L.; Wu, J. J.; Ma, J.; Li, S. S.; Xue, X.; Wei, D.; Shan, C. L.; Zheng, M. X.; Hua, X. Y.; Xu, J. G.	Brain Structural Changes in Carpal Tunnel Syndrome Patients: From the Perspectives of Structural Connectivity and Structural Covariance Network	2021	Already diagnosed CTS patients compared to controls
Crouch, D.	I'm proud of my service	2003	commentary
Triki, L.; Zouari, H. G.; Kammoun, R.; Kammoun, F.; Kammoun, I.; Masmoudi, K.; Lefaucheur, J. P.	A reappraisal of small- and large-fiber damage in carpal tunnel syndrome: New insights into the value of the EMLA test for improving diagnostic sensitivity	2017	No comparison of interest: NCS vs palmar SSR vs EMLA
Park, J. Y.; Kim, Y. K.; Kim, S. Y.; Lee, H.; Choi, C. J.; Chae, Y.; Park, H. J.	Acupuncture modulates brain neural activity in patients: a systematic review and meta-analysis	2017	Systematic review; bib review completed
Öztürk, B.; Övünç Özön, A.	The importance of electrophysiologic support for carpal tunnel syndrome diagnosis in the elderly	2019	Irrelevant topic: comparing age of patients with CTS
Miyaji, Y.; Kobayashi, M.; Oishi, C.; Mizoi, Y.; Tanaka, F.; Sonoo, M.	A new method to define cutoff values in nerve conduction studies for carpal tunnel syndrome considering the presence of false-positive cases	2020	used a control group, does not fit PICO comparison group
Severi, D.; Aruta, F.; Iovino, A.; Spina, E.; Nolano, M.; Manganelli, F.; Tozza, S.	Can we identify hereditary TTR amyloidosis by the screening of carpal tunnel syndrome patients?	2022	Case review
Wu, Y. X.; Yin, H.; Lin, J. Y.; Jiang, H. J.; Han, F.; Liu, S. D.; Qu, W.	Our 15-year experience of complications of Chow's technique for endoscopic carpal tunnel releasing	2022	No comparison group - all 211 patients received ECTR with Chow technique
Eren, Y.; Yavasoglu, N. G.; Ozisler, C.	Polyneuropathy and the sural/radial sensory nerve action potential ratio in primary Sjögren's syndrome	2020	does not answer pico question
Gunes, M.; Buyukgol, H.	Correlation of neutrophil/lymphocyte and platelet/lymphocyte ratios with the severity of idiopathic carpal tunnel syndrome	2020	Irrelevant comparison: comparing NLR and platelet/lymphocyte ratio with patients with CTS vs nonCTS patients
Pourmokhtari, M.; Mazrooyi, M.; Vosoughi, A. R.	Conservative or surgical treatment of carpal tunnel syndrome based on the severity and patient risk factors	2021	Irrelevant topic: op vs nonop
Wee, T. C.; Simon, N. G.	Ultrasound elastography for the evaluation of peripheral nerves: A systematic review	2019	Systematic review; bib review completed
Han, Y.; Zhang, C.; Li, K.	A pilot clinical trial comparing efficacy and safety of tramadol versus prednisone along with therapeutic ultrasound as adjuvant therapy in Chinese patients with carpal tunnel syndrome diagnosed by ultrasonography	2020	Follow up criteria not met; f/u only 2 weeks
Liew, B. X. W.; de-la-Llave-Rincon, A. I.; Scutari, M.; Arias-Buria, J. L.; Cook, C.	Do Short-Term Effects Predict Long-Term Improvements in Women Who Receive Manual Therapy or Surgery for Carpal Tunnel Syndrome? A	2022	Irrelevant comparison - Op vs. NonOp

Authors	Article Title	Year	Reason for Exclusion
E.; Cleland, J.; Fernandez-de-Las-Penas, C.	Bayesian Network Analysis of a Randomized Clinical Trial		
Tekin, I.; Mirzai, H.; Ok, G.	Carpal tunnel release under intravenous regional anaesthesia with ropivacaine or lidocaine	2005	update PICO published before 2015, captured in 2016
Negrao, L.; Nunes, P.; Portuguese Group for the Study of Peripheral, Neuropathy	Uridine monophosphate, folic acid and vitamin B12 in patients with symptomatic peripheral entrapment neuropathies	2016	does not fit PICO population
Sobeeh, M. G.; Ghozy, S.; Elshazli, R. M.; Landry, M.	Pain mechanisms in carpal tunnel syndrome: a systematic review and meta-analysis of quantitative sensory testing outcomes	2021	systematic review; bib review complete
Chou, R. C.; Robinson, D. M.; Homer, S.	Ultrasound-guided percutaneous carpal tunnel release: A systematic review	2022	systematic review; bib review complete
Manocha, R. H. K.; MacGillivray, M. K.; Eshraghi, M.; Sawatzky, B. J.	Injuries Associated with Crutch Use: A Narrative Review	2021	Systematic review; bib review completed
Baker, N. A.; Stevans, J. M.; Terhorst, L.; Haas, A. M.; Kuo, Y. F.; Al Snih, S.	What Types of Treatment Are Provided for Patients With Carpal Tunnel Syndrome? A Retrospective Analysis of Commercial Insurance	2018	no outcomes of interest; irrelevant topic
Olaiya, O. R.; Alagabi, A. M.; Mbuagbaw, L.; McRae, M. H.	Carpal Tunnel Release without a Tourniquet: A Systematic Review and Meta-Analysis	2020	systematic review; bib review complete
Yano, K.; Kawabata, A.; Ikeda, M.; Suzuki, K.; Kaneshiro, Y.; Egi, T.	Hypercholesterolemia Is Associated with the Subjective Evaluation of Postoperative Outcomes in Patients with Idiopathic Carpal Tunnel Syndrome Who Undergo Surgery: A Multivariate Analysis	2018	all patients underwent preoperative testing (fasting blood test)
Yildiran, G.; Seher, N.; Sutcu, M.; Nayman, A.; Akdag, O.; Tosun, Z.	Median Nerve's Microcirculation in Carpal Tunnel Syndrome: Superb Microvascular Imaging	2021	Irrelevant comparison: u/s done after diagnosis + surgery
Landau, A. J.; Parameswaran, P.; Fresco, R.; Simon, L.; Dy, C. J.; Brogan, D. M.	Systematic Review of the Use of Power Doppler Ultrasound in the Imaging of Peripheral Nerve Compression Neuropathy	2022	systematic review; bib review complete
Schmelzer, R. E.; Della Rocca, G. J.; Caplin, D. A.	Endoscopic carpal tunnel release: a review of 753 cases in 486 patients	2006	update PICO published before 2015, captured in 2016
Schrier, Vjmm; Poelstra, R.; Selles, R. W.; Slijper, H. P.; Amadio, P. C.; Hovius, S. E. R.; Porsius, J. T.	Better Patient-Reported Experiences with Health Care Are Associated with Improved Clinical Outcome after Carpal Tunnel Release Surgery	2019	no outcomes of interest
Long, C.; Azad, A. D.; desJardins-Park, H. E.; Fox, P. M.	Quality of Randomized Controlled Trials for Surgical Treatment of Carpal Tunnel Syndrome: A Systematic Review	2019	Systematic review; bib review complete
Rezazadeh, M.; Aminianfar, A.; Pahlevan, D.	Short-term effects of dry needling of thenar muscles in manual laborers with carpal tunnel syndrome: a pilot, randomized controlled study	2022	Exclusion criteria requires 1 mo follow up; this study has only a 2 week follow up

Authors	Article Title	Year	Reason for Exclusion
Dincer, U.; Cakar, E.; Kiralp, M. Z.; Kilac, H.; Dursun, H.	The effectiveness of the conservative treatment of carpal tunnel syndrome: Splinting, ultrasound, and low-level laser therapy	2008	update PICO published before 2015, captured in 2016, relevant to 2022
Cheung, W. K. W.; Wu, I. X. Y.; Sit, R. W. S.; Ho, R. S. T.; Wong, C. H. L.; Wong, S. Y. S.; Chung, V. C. H.	Low-level laser therapy for carpal tunnel syndrome: systematic review and network meta-analysis	2020	systematic review; bib review complete
Evers, S.; Bryan, A. J.; Sanders, T. L.; Gunderson, T.; Gelfman, R.; Amadio, P. C.	Corticosteroid Injections for Carpal Tunnel Syndrome: Long-Term Follow-Up in a Population-Based Cohort	2017	No comparison group
Krause, D.; Ryan, S.; Krpalek, D.; Roll, S. C.; Javaherian-Dysinger, H.; Daher, N.	Participants' perceptions of Kinesio tape for carpal tunnel syndrome: A qualitative study	2019	<1 month follow up (2 weeks)
Zyluk, A.; Dec, P.; Szlosser, Z.	A comparison of the early outcomes of surgery in patients with unilateral and bilateral carpal tunnel syndrome using standard outcome measures	2020	irrelevant comparison
Lattre, T.; Brammer, S.; Parmentier, S.; Van Holder, C.	Hypothenar fat pad flap surgery for end stage and recurrent carpal tunnel syndrome	2016	intervention does not fit PICO
Boumediane, M.; Meyer, N.; Facca, S.; Pizza, C.; Liverneaux, P.	Revision surgery for carpal tunnel syndrome: a retrospective study comparing the combination of Canaletto R and Dynavisc R gel versus Dynavisc R gel alone	2021	Case series
Al-Amin, Z.; Senyurek, S. A.; Van Lieshout, E. M. M.; Wijffels, M. M. E.	Systematic review and pooled analysis of the rate of carpal tunnel syndrome after prophylactic carpal tunnel release in patients with a distal radius fracture	2018	Systematic review; bib review completed
Tang, J. B.; Gong, K. T.; Zhu, L.; Pan, Z. J.; Xing, S. G.	Performing Hand Surgery Under Local Anesthesia Without a Tourniquet in China	2017	not a clinical study
Kluge, S.; Langer, M.; Schelle, T.	Sonographic Diagnosis of Carpal Tunnel Syndrome	2022	Review article
Moungondo, F.; Feipel, V.	Percutaneous Sonographically Guided Release of Carpal Tunnel and Trigger Finger: Biomechanics, Clinical Results, Technical Developments	2022	biomechanical study
Nagle, D. J.	Endoscopic carpal tunnel release	2002	narrative review
Heckler, F. R.; Jabaley, M. E.	Evolving concepts of median nerve decompression in the carpal tunnel	1986	narrative review
Chow, J. C.	Endoscopic carpal tunnel release. Two-portal technique	1994	narrative review
Zhang, D.; Ostergaard, P.; Cefalu, C.; Hall, M.; Earp, B. E.; Blazar, P.	Outcomes of Mini-Open Carpal Tunnel Release in Patients With Unrecordable Preoperative Nerve Conduction Potentials at a Minimum of 5 Years	2021	No comparison group
Truelove, E. C.; Urrechaga, E.; Fernandez, C.; Fowler, J. R.	Prospective, Double-blind Evaluation of Perioperative Intravenous Acetaminophen and Ketorolac for Postoperative Pain and Opioid Consumption After Endoscopic Carpal Tunnel Release	2021	Irrelevant topic: perioperative IV pain med and need for opioid consumption post-op
Shetty, P. N.; Sanghavi, K. K.;	Prescription Opioids and Patient-Reported Outcomes and Satisfaction After Carpal Tunnel Release Surgery	2022	Follow up criteria not met; f/u only 2 weeks

Authors	Article Title	Year	Reason for Exclusion
Mete, M.; Giladi, A. M.			
Tajika, T.; Kuboi, T.; Endo, F.; Chikuda, H.	Relationship Between Morphological Change of Median Nerve and Clinical Outcome Before and After Open Carpal Tunnel Release: Ultrasonographic 1-Year Follow-up After Operation	2020	No comparison group - all patients underwent OCTR
Peters, B. R.; Martin, A. M.; Memauri, B. F.; Bock, H. W.; Turner, R. B.; Murray, K. A.; Islur, A.	Morphologic Analysis of the Carpal Tunnel and Median Nerve Following Open and Endoscopic Carpal Tunnel Release	2021	Sample sizes too small, OCTR group had 8 patients
Samant, P. D.; Sane, R. M.	Evaluation of Functional and Symptomatic Outcomes After Vitamin D3 Administration in Carpal Tunnel Syndrome With Hypovitaminosis D	2021	No comparison group - all patients were vit D deficient and received vit D supplements
Ly-Pen, D.; Andreu, J. L.; Millan, I.; de Blas, G.; Sanchez-Olaso, A.	Long-term Outcome of Local Steroid Injections Versus Surgery in Carpal Tunnel Syndrome: Observational Extension of a Randomized Clinical Trial	2020	Irrelevant comparison: op vs nonop CTS
Melton, W.; Soong, M.; Paci, G.; Clair, B.; Blanchet, D.; Ho, D.	Ultrasound of the Median Nerve in the Surgical Treatment of Severe Carpal Tunnel Syndrome	2021	No comparison group
Mertz, K.; Lindsay, S. E.; Morris, A.; Kamal, R. N.	Outcome Metrics in the Treatment of Carpal Tunnel Syndrome: A Systematic Review	2020	systematic review; bib review complete
Leiby, B. M.; Beckman, J. P.; Joseph, A. E.	Long-term Clinical Results of Carpal Tunnel Release Using Ultrasound Guidance	2021	No comparisons of interest - all patients received u/s guided single CTR technique
Lander, S.; Lander, A.; Hammert, W. C.	Outcomes of Patients with and without Nighttime Awakening Symptoms After Carpal Tunnel Release	2022	Irrelevant comparison: nighttime awakening symptoms
Koong, D. P.; An, V. V. G.; Nandapalan, H.; Lawson, R. D.; Graham, D. J.; Sivakumar, B. S.	Open versus Single- or Dual-Portal Endoscopic Carpal Tunnel Release: A Meta-Analysis of Randomized Controlled Trials	2022	meta-analysis; bib review complete
Gao, T.; Demino, C.; Fowler, J. R.	Ultrasound Measurement Error and Its Implications for Carpal Tunnel Syndrome Diagnosis	2020	Not a human subject study.
Grandizio, L. C.; Rocha, D. F. B.; Beck, J. D.; Hostmeyer, S.; Chorney, M. L.; Udoeyo, I. F.; Malone, W. J.; Klena, J. C.	Median Nerve and Carpal Tunnel Morphology Before and After Endoscopic Carpal Tunnel Release: A 6-Year Follow-up Study	2021	Sample sizes too small, <10
Ding, Q.; Trickey, A. W.; Mudumbai, S.; Kamal, R. N.; Sears, E. D.; Harris, A. H. S.	Prevalence and Factors Associated With Low-Value Preoperative Testing for Patients Undergoing Carpal Tunnel Release at an Academic Medical Center	2022	prevalence of preop testing for CTS patients
Billig, J. I.; Gunaseelan, V.; Yazdanfar, M.; Sears, E. D.; Iwashyna, T. J.; Chang, T.; Waljee, J. F.	Gabapentinoid Prescribing for Carpal Tunnel Syndrome	2022	No outcomes of interest: prescribing patterns of gabapentinoid for CTS
Fischer, S.; Zechmeister-Koss, I.	Is day surgery safe? A systematic literature review	2014	Systematic review; not relevant

Authors	Article Title	Year	Reason for Exclusion
Jhattu, H.; Klaassen, S.; Ying, C.; Ali Hussain, M.	Acute carpal tunnel syndrome in trauma	2012	narrative review
Asadov, R.; Erdal, A.; Bugdayci, O.; Gunduz, O. H.; Ekinci, G.	The effectiveness of ultrasonography and ultrasonographic elastography in the diagnosis of carpal tunnel syndrome and evaluation of treatment response after steroid injection	2018	does not fit PICO population, control group included in calculations
Cingoz, M.; Kandemirli, S. G.; Alis, D. C.; Samanci, C.; Kandemirli, G. C.; Adatepe, N. U.	Evaluation of median nerve by shear wave elastography and diffusion tensor imaging in carpal tunnel syndrome	2018	used a control group, does not fit PICO comparison group
Manoharan, D.; Sudhakaran, D.; Goyal, A.; Srivastava, D. N.; Ansari, M. T.	Clinico-radiological review of peripheral entrapment neuropathies – Part 1 upper limb	2020	narrative review
Faeghi, F.; Ardakani, A. A.; Acharya, U. R.; Mirza-Aghazadeh-Attari, M.; Abolghasemi, J.; Ejtehadifar, S.; Mohammadi, A.	Accurate automated diagnosis of carpal tunnel syndrome using radiomics features with ultrasound images: A comparison with radiologists' assessment	2021	Irrelevant comparison: already diagnosed CTS patients vs healthy controls
Foucher, G.; Van Overstraeten, L.; Braga da Silva, J.; Nolens, D.	Changes in grip strength in a randomized study of carpal tunnel release by three different techniques	1996	update PICO published before 2015, NOT captured in 2016
Prevolnik Rupel, V.; Divjak, M.; Zrubka, Z.; Rencz, F.; Gulácsi, L.; Golicki, D.; Mirowska-Guzel, D.; Simon, J.; Brodzsky, V.; Baji, P.; Závada, J.; Petrova, G.; Rotar, A.; Péntek, M.	EQ-5D studies in nervous system diseases in eight Central and East European countries: a systematic literature review	2019	Systematic review; bib review completed
Chung, K. C.	Evaluation of preoperative expectations and patient satisfaction after carpal tunnel release	2008	update PICO published before 2015, captured in 2016, narrative review
Ginanneschi, F.; Mondelli, M.; Cioncoloni, D.; Rossi, A.	Impact of carpal tunnel syndrome on ulnar nerve at wrist: Systematic review	2018	Systematic review; bib review completed
Grandizio, L. C.; Boualam, B.; Shea, P.; Hoehn, M.; Cove, C.; Udoeyo, I. F.; Dwyer, C. L.; Klena, J. C.	The Reliability of the CTS-6 for Examiners With Varying Levels of Clinical Experience	2022	irrelevant topic: inter-rater reliability between medical student vs. hand surgeon vs. hand therapist
Kimura, H.; Sato, K.; Matsumura, N.; Suzuki, T.; Iwamoto, T.; Otori, K.; Yamada, Y.; Matsumoto, M.; Nakamura, M.	Evaluation of Dynamic Carpal Arch Stability following Carpal Tunnel Release Using Four-Dimensional Computed Tomography	2021	Sample sizes too small, <10



Authors	Article Title	Year	Reason for Exclusion
Jinzaki, M.; Nagura, T.			
Ozsoy-Unubol, T.; Bahar-Ozdemir, Y.; Yagci, I.	Diagnosis and grading of carpal tunnel syndrome with quantitative ultrasound: Is it possible?	2020	does not fit PICO population
Kucuk, E. B.; Taskiran, O. O.	Evaluation of Duruoz Hand Index in diagnosis and staging of Carpal tunnel syndrome	2020	No comparison of interest. EDX vs BQ and DHI
Kucukakkas, O.; Yurdakul, O. V.	The diagnostic value of clinical examinations when diagnosing carpal tunnel syndrome assisted by nerve conduction studies	2019	irrelevant comparison
Rubin, D. I.; Dimberg, E. L.	Needle EMG of Thenar Muscles in Less Severe Carpal Tunnel Syndrome	2018	No comparison group - all patients only had EMG done
Tepeli, B.; Karatas, M.; Coskun, M.; Yemisçi, O. U.	Comparison of magnetic resonance imaging and electroneuromyography for denervated muscle diagnosis	2017	Irrelevant study population includes all median neuropathies, not just CTS
Ornelas, A. S.; Girardo, M. E.; Smith, B. E.	Electrodiagnostic Testing for Carpal Tunnel Syndrome When Routine Median Sensory and Thenar Motor Responses Are Absent	2021	No comparison group
Celik, G.; Ilik, M. K.	Effects of Two Different Treatment Techniques on the Recovery Parameters of Moderate Carpal Tunnel Syndrome: A Six-Month Follow-up Study	2016	Non-operative vs. Operative treatment
Zegri-Reiriz, I.; de Haro-Del Moral, F. J.; Dominguez, F.; Salas, C.; de la Cuadra, P.; Plaza, A.; Krsnik, I.; Gonzalez-Lopez, E.; Garcia-Pavia, P.	Prevalence of Cardiac Amyloidosis in Patients with Carpal Tunnel Syndrome	2019	No comparison group - all patients tested for amyloidosis
Gascon-Garcia, J.; Bagur-Calafat, C.; Girabent-Farres, M.; Balius, R.	Validation of the range of dry needling with the fascial winding technique in the carpal tunnel using ultrasound	2018	no outcomes of interest: irrelevant comparison
Al Bedah, A. M.; Khalil, M. K.; Posadzki, P.; Sohaibani, I.; Aboushanab, T. S.; AlQaed, M.; Ali, G. I.	Evaluation of Wet Cupping Therapy: Systematic Review of Randomized Clinical Trials	2016	Systematic review; bib review complete
Bhat, A. K.; Acharya, A. M.; Mane, P. P.; Babu, S.; Madi, S.	Our experience in first 100 cases of endoscopic carpal tunnel release: An Indian perspective	2018	no comparison group
Akgol, G.; Elbasti, M. S.; Gulkesen, A.; Alkan, G.; Kaya, A.; Ulusoy, H.	Comparison of low power laser and kinesio taping for the treatment of carpal tunnel syndrome: A prospective randomized study	2021	Follow up criteria not met; f/u only 3 weeks
Alemdar, M.	Ring finger sensorial conduction studies in grading carpal tunnel syndrome	2016	irrelevant comparison; no outcomes of interest
Lecoq, B.; Hanouz, N.; Morello, R.; Jean-Jacques, P. Y.; Dutheil, J. J.; Hulet, C.; Marcelli, C.	Ultrasound-assisted surgical release of carpal tunnel syndrome: Results of a pilot open-label uncontrolled trial conducted outside the operating theatre	2015	no comparison group
Peters, S.; Johnston, V.; Hines, S.; Ross, M.; Coppieters, M.	Prognostic factors for return-to-work following surgery for carpal tunnel syndrome: a systematic review	2016	Systematic review; bib review complete

Authors	Article Title	Year	Reason for Exclusion
Backer, H. C.; Galle, S. E.; Lentzsch, S.; Freibott, C. E.; Shoap, S.; Strauch, R. J.; Rosenwasser, M. P.	Flexor tenosynovectomy in carpal tunnel syndrome as a screening tool for early diagnosis of amyloidosis	2021	No comparison group - all patients studied tested for amyloidosis
Vianello, P. F.; La Malfa, G.; Tini, G.; Mazzola, V.; Miceli, A.; Santolini, E.; Briano, S.; Porto, I.; Canepa, M.	Prevalence of transthyretin amyloid cardiomyopathy in male patients who underwent bilateral carpal tunnel surgery: The ACTUAL study	2021	Irrelevant topic: prevalence of TAC. No comparison group
Westin, O.; Lauridsen, M. D.; Kristensen, S. L.; Kober, L.; Torp-Pedersen, C.; Gislason, G.; Sondergaard, L.; Maurer, M. S.; Leicht, B. P.; Gustafsson, F.; Fosbol, E. L.	The association of prior carpal tunnel syndrome surgery with adverse cardiovascular outcomes and long-term mortality after aortic valve replacement	2021	Irrelevant topic: cardiac outcomes following AVR surgery on patients with prior CTS surgery
Gutierrez-Monclus, R. G.; Gutierrez-Espinoza, H. J.; Flores-Astudillo, A. R.; Lluch-Homedes, A. L.; Aguirre-Jerez, M.	Release with or without reconstruction of the transverse carpal ligament for severe carpal tunnel syndrome: a randomized clinical trial	2018	no outcomes of interest; irrelevant comparison
Hameso, A.; Bland, J. D.	Prevalence of decompression surgery in patients with carpal tunnel syndrome 8 years after initial treatment with a local corticosteroid injection	2017	Comparison and observational study of non-operative treatment to operative treatment
Jagodzinski, N. A.; Ibish, S.; Furniss, D.	Surgical site infection after hand surgery outside the operating theatre: a systematic review	2017	Systematic review; bib review complete
Carita, E.; Donadelli, A.; Laterza, M.; Perazzini, P.; Tamburin, S.; Zanette, G.	High-resolution ultrasound in the diagnosis of failed carpal tunnel decompression: a study of 35 cases	2022	Irrelevant topic: u/s used to determine why decompression surgery failed
Kaile, E.; Bland, J. D. P.	Safety of corticosteroid injection for carpal tunnel syndrome	2018	no comparison group
Matsuki, H.; Nakatsuchi, Y.; Momose, T.	Opponensplasty using the extensor indicis proprius tendon for severe carpal tunnel syndrome in 40 patients	2022	No comparison group - all patients received open release with simultaneous opponensplasty
Sonofuchi, K.; Hatta, T.; Goto, H.	Ultrasonographic Measurement of the Median Nerve Transverse Diameter at the Wrist for Diagnosing Carpal Tunnel Syndrome	2021	Irrelevant comparison: already diagnosed CTS patients vs healthy controls
Meyers, A.; Annunziata, M. J.; Rampazzo, A.; Bassiri Gharb, B.	A Systematic Review of the Outcomes of Carpal Ligament Release in Severe Carpal Tunnel Syndrome	2022	systematic review; bib review complete
Sanz, J.; Lizaur, A.; Sanchez Del Campo, F.	Postoperative changes of carpal canal pressure in carpal tunnel syndrome: a prospective study with follow-up of 1 year	2005	update PICO published before 2015, captured in 2016

Authors	Article Title	Year	Reason for Exclusion
Mottaghi, M.; Zare, M.; Pahlavanhosseini, H.; Mottaghi, M.	Carpal Tunnel Release Surgery Plus Intraoperative Corticosteroid Injection versus Carpal Tunnel Release Surgery Alone: A Double Blinded Clinical Trial	2019	operative treatment with inoperative treatment, does not fit PICO intervention
Park, J. W.; Gong, H. S.; Rhee, S. H.; Kim, J.; Lee, Y. H.; Baek, G. H.	The Effect of Psychological Factors on the Outcomes of Carpal Tunnel Release: A Systematic Review	2017	Systematic review; bib review complete
Lee, C. H.; Jeong, G. M.	A Randomised Control Trial Comparing Opioid and Paracetamol for Pain Control after Carpal Tunnel Release	2022	Follow up criteria not met; f/u only 3 days
Castro Magtoto, I. J.; Alagar, D. L.	Wide Awake Local Anesthesia No Tourniquet: A Pilot Study for Carpal Tunnel Release in the Philippine Orthopedic Center	2019	Case series including 13 patients
Chiang, J.; An, V. V. G.; Graham, D.; Lawson, R.; Sivakumar, B.	Flexor Synovectomy as an Adjunct to Carpal Tunnel Release in Primary Carpal Tunnel Syndrome: A Meta-Analysis	2021	systematic review; bib review complete
Mallick, A.; Clarke, M.; Kershaw, C. J.	Comparing the outcome of a carpal tunnel decompression at 2 weeks and 6 months	2007	update PICO published before 2015, captured in 2016, Irrelevant Comparison
Wichelhaus, A.; Mittlmeier, T.; Gierer, P.; Beck, M.	Vascularized Hypothenar Fat Pad Flap in Revision Surgery for Carpal Tunnel Syndrome	2015	no comparison group
Uchiyama, S.; Sekijima, Y.; Tojo, K.; Sano, K.; Imaeda, T.; Moriizumi, T.; Ikeda, S.; Kato, H.	Effect of synovial transthyretin amyloid deposition on preoperative symptoms and postoperative recovery of median nerve function among patients with idiopathic carpal tunnel syndrome	2014	irrelevant article: all patients were tested for amyloid deposition
Belka, M.; Koziej, M.; Trybus, M.; Fijalkowska, M.; Banach, M.	The adaptation of Polish version of Six-Item Carpal Tunnel Syndrome Symptoms Scale	2021	Irrelevant comparison: inclusion criteria= patients with confirmed CTS
Dabbagh, A.; MacDermid, J. C.; Yong, J.; Macedo, L. G.; Packham, T. L.	Diagnosing Carpal Tunnel Syndrome: Diagnostic Test Accuracy of Scales, Questionnaires, and Hand Symptom Diagrams-A Systematic Review	2020	systematic review; bib review complete
Erickson, M.; Lawrence, M.; Lucado, A.	The role of diagnostic ultrasound in the examination of carpal tunnel syndrome: an update and systematic review	2021	systematic review; bib review complete
Mack, E. M.; Callinan, N. J.; Reams, M.; Bohn, D. C.; Chmielewski, T. L.	Patient-reported outcomes after open carpal tunnel release using a standard protocol with 1 hand therapy visit	2017	No comparison group
Krause, D.; Roll, S. C.; Javaherian-Dysinger, H.; Daher, N.	Comparative efficacy of the dorsal application of Kinesio tape and splinting for carpal tunnel syndrome: A randomized controlled trial	2021	Follow up criteria for non-op tx not met; f/u only 2 weeks
Parish, R.; Morgan, C.; Burnett, C. A.; Baker, B. C.; Manning, C.; Sisson, S. K.; Shipp, E. R.	Practice patterns in the conservative treatment of carpal tunnel syndrome: Survey results from members of the American Society of Hand Therapy	2020	not a clinical study
Moradi, A.; Sadr, A.; Ebrahimzadeh, M. H.; Hassankhani, G. G.; Mehrad-Majd, H.	Does diabetes mellitus change the carpal tunnel release outcomes? Evidence from a systematic review and meta-analysis	2020	systematic review; bib review complete

Authors	Article Title	Year	Reason for Exclusion
Naughton, N.; Algar, L.	Linking commonly used hand therapy outcome measures to individual areas of the International Classification of Functioning: A systematic review	2019	Systematic review; bib review completed
Mehta, S. P.; Weinstock-Zlotnick, G.; Akland, K. L.; Hanna, M. M.; Workman, K. J.	Using Carpal Tunnel Questionnaire in clinical practice: A systematic review of its measurement properties	2020	systematic review; bib review complete
Cox, R.; Laracy, S.; Glasgow, C.; Green, K.; Ross, L.	Evaluation of occupational therapy–led advanced practice hand therapy clinics for patients on surgical outpatient waiting lists at eight Australian public hospitals	2020	not all patients had CTS (41.91%)
Dabbagh, A.; Ziebart, C.; MacDermid, J. C.	Accuracy of diagnostic clinical tests and questionnaires in screening for carpal tunnel syndrome among workers- A systematic review	2021	systematic review; bib review complete
Buchanan, H.; Van Niekerk, L.; Grimmer, K.	Work transition after hand injury: A scoping review	2022	Systematic review; bib review completed
Schädel-Höpfner, M.; Windolf, J.; Antes, G.; Sauerland, S.; Diener, M. K.	Evidence-based hand surgery: The role of cochrane reviews	2008	Systematic review; bib review completed
Rubin, G.; Orbach, H.; Rinott, M.; Rozen, N.	The effectiveness of splinting and surgery on sleep disturbance in carpal tunnel syndrome	2018	Follow up criteria not met; f/u only 4-9 days
Chiaromonte, R.; Pavone, P.; Musumeci, G.; Rosa, M. D.; Vecchio, M.	Preventive strategies, exercises and rehabilitation of hand neuropathy in cyclists: A systematic review	2021	systematic review; not relevant to project
Thomas, P.; James, D.; Hulbert, R.; Kassak, K. M.; Meyer, J. J.	Comparative efficacy of conservative medical and chiropractic treatments for carpal tunnel syndrome: A randomized clinical trial	1998	update PICO published before 2015, captured in 2016
Paquette, P.; Higgins, J.; Gagnon, D. H.	Peripheral and Central Adaptations After a Median Nerve Neuromobilization Program Completed by Individuals With Carpal Tunnel Syndrome: An Exploratory Mechanistic Study Using Musculoskeletal Ultrasound Imaging and Transcranial Magnetic Stimulation	2020	No comparison group - all participants completed at home exercise program
Sault, J. D.; Jayaseelan, D. J.; Mischke, J. J.; Post, A. A.	The Utilization of Joint Mobilization As Part of a Comprehensive Program to Manage Carpal Tunnel Syndrome: A Systematic Review	2020	systematic review; bib review complete
Monroy Guizar, E. A.; Garcia Benavides, L.; Ambriz Plascencia, A. R.; Pascoe Gonzalez, S.; Totsuka Sutto, S. E.; Cardona Munoz, E. G.; Mendez-Del Villar, M.	Effect of Alpha-Lipoic Acid on Clinical and Neurophysiologic Recovery of Carpal Tunnel Syndrome: A Double-Blind, Randomized Clinical Trial	2018	operative and non-operative interventions
Mizrak, A.; Bozgeyik, S.; Karakurum, G.; Kocamer, B.; Oner, U.	The addition of low-dose mivacurium to lidocaine for intravenous regional anesthesia	2010	update PICO published before 2015, captured in 2016

Authors	Article Title	Year	Reason for Exclusion
Simcox, T.; Seo, L.; Dunham, K.; Huang, S.; Petchprapa, C.; Wollstein, R.	Palmar Musculature: Does It Affect the Development of Carpal Tunnel Syndrome? A Pilot Study	2021	Irrelevant comparison: already diagnosed CTS patients vs healthy controls
Zhang, C.; Li, M.; Jiang, J.; Zhou, Q.; Xiang, L.; Huang, Y.; Ban, W.; Peng, W.	Diagnostic Value of Virtual Touch Tissue Imaging Quantification for Evaluating Median Nerve Stiffness in Carpal Tunnel Syndrome	2017	Irrelevant comparison: already diagnosed CTS patients vs healthy controls
Schrier, Vjmm; Brault, J. S.; Amadio, P. C.	Ultrasound-Guided Hydrodissection With Corticosteroid Injection in the Treatment of Carpal Tunnel Syndrome: A Pilot Study	2020	less than 10 patients per group
Byra, M.; Hentzen, E.; Du, J.; Andre, M.; Chang, E. Y.; Shah, S.	Assessing the Performance of Morphologic and Echogenic Features in Median Nerve Ultrasound for Carpal Tunnel Syndrome Diagnosis	2020	irrelevant comparison
Azman, D.; Hrabac, P.; Demarin, V.	Use of Multiple Ultrasonographic Parameters in Confirmation of Carpal Tunnel Syndrome	2018	used a control group, does not fit PICO comparison group
Wise, S.; Bettleyon, J.	Neurodynamics Is an Effective Intervention for Carpal Tunnel Syndrome	2022	systematic review; bib review complete
Faucher, G. K.; Daruwalla, J. H.; Seiler, J. G., 3rd	Complications of Surgical Release\break of Carpal Tunnel Syndrome: A Systematic Review	2017	Systematic review; bib review complete
Ko, J. S.; Zwiebel, S.; Wilson, B.; Becker, D. B.	Perioperative antibiotic use in diabetic patients: A retrospective review of 670 surgeries	2017	Very low quality
Tu, Y.; Lineaweaver, W. C.; Chen, Z.; Hu, J.; Mullins, F.; Zhang, F.	Surgical Decompression in the Treatment of Diabetic Peripheral Neuropathy: A Systematic Review and Meta-analysis	2017	Systematic review; bib review complete
Hama, S.; Okada, M.; Yokoi, T.; Uemura, T.; Nakamura, H.	Pain and numbness one month after carpal tunnel release predict patient-reported outcome measures at sixth months	2021	OCTR and ECTR were grouped together, not compared
Kheiran, A.; Palial, V.; Rollett, R.; Wildin, C. J.; Chatterji, U.; Singh, H. P.	Cat bite: an injury not to underestimate	2019	Irrelevant topic; patient population
Trinh, K.; Zhou, F.; Belski, N.; Deng, J.; Wong, C. Y.	The Effect of Acupuncture on Hand and Wrist Pain Intensity, Functional Status, and Quality of Life in Adults: A Systematic Review	2022	systematic review; bib review complete
Bueno-Gracia, E.; Tricas-Moreno, J. M.; Fanlo-Mazas, P.; Malo-Urries, M.; Haddad-Garay, M.; Estebanez-de-Miguel, E.; Hidalgo-Garcia, C.; Krauss, J. R.	Validity of the Upper Limb Neurodynamic Test 1 for the diagnosis of Carpal Tunnel Syndrome. The role of structural differentiation	2016	irrelevant comparison
Mesgarzadeh, M.; Triolo, J.; Schneck, C. D.	Carpal tunnel syndrome. MR imaging diagnosis	1995	update PICO published before 2015, captured in 2016
Bekhet, A. H.; Ragab, B.; Abushouk, A. I.; Elgebaly, A.; Ali, O. I.	Efficacy of low-level laser therapy in carpal tunnel syndrome management: a systematic review and meta-analysis	2017	Systematic review; bib review complete
Anonymous,	Amyloid joint disease	1973	non-systematic review
Kabiraj, M. M. U.; Al Rajeh, S.; Al Tahan,	Carpel tunnel syndrome: A clinico-electrophysiological study	1998	update PICO published before 2015, captured in 2016

Authors	Article Title	Year	Reason for Exclusion
A. R.; Abduljabbar, M.; Al Bunyan, M.; Daif, A. K.; Awada, A.			
Yang, J.; Chen, K.; Liu, Y.; Yang, Y.	Prolonged median distal sensory nerve action potential duration in carpal tunnel syndrome	2021	Irrelevant comparison: Already diagnosed CTS patients, healthy controls, and cervical radiculopathy patients without CTS
Malladi, N.; Micklesen, P. J.; Hou, J.; Robinson, L. R.	Correlation between the combined sensory index and clinical outcome after carpal tunnel decompression: A retrospective review	2010	update PICO published before 2015, captured in 2016
Garcia-Santibanez, R.; Dietz, A. R.; Bucelli, R. C.; Zaidman, C. M.	Nerve ultrasound reliability of upper limbs: Effects of examiner training	2018	Irrelevant topic: inter-rater reliability; trainee vs. experienced
Ginsberg, M. R.; Morren, J. A.	Utility of electrodiagnostic studies in patients referred with a diagnosis of polyneuropathy	2020	does not answer pico question; not all patients had CTS
Nakamichi, K. I.; Tachibana, S.	Amyloid deposition in the synovium and ligament in idiopathic carpal tunnel syndrome	1996	No Comparison Group
Park, E. J.; Hahn, S.; Yi, J.; Shin, K. J.; Lee, Y.; Lee, H. J.	Comparison of the Diagnostic Performance of Strain Elastography and Shear Wave Elastography for the Diagnosis of Carpal Tunnel Syndrome	2021	Irrelevant comparison: gray scale US vs shear wave US
Fujimoto, K.; Kanchiku, T.; Kido, K.; Imajo, Y.; Funaba, M.; Taguchi, T.	Diagnosis of Severe Carpal Tunnel Syndrome Using Nerve Conduction Study and Ultrasonography	2015	Irrelevant population; subjects have already been diagnosed with CTS.
Nikolic, A.; Stevic, Z.; Peric, S.; Stojanovic, V. R.; Lavrnica, D.	Evaluation of the adequacy of requests for electrodiagnostic examination in a tertiary referral center	2016	irrelevant population; no outcomes of interest
Lee, H. J.; Oh, Y.; Cho, K.; Kim, M.; Kwon, H. K.	Efficacy of Optimal Recording Electrode Placement for Median-Lumbrical and Ulnar-Interossei/Lumbrical Distal Latency in the Diagnosis of Carpal Tunnel Syndrome	2016	irrelevant comparison
Cunningham, D. J.; Baumgartner, R. E.; Federer, A. E.; Richard, M. J.; Mithani, S. K.	Elevated Preoperative Hemoglobin A1c Associated with Increased Wound Complications in Diabetic Patients Undergoing Primary, Open Carpal Tunnel Release	2019	irrelevant intervention/exposure
Lander, R. D.; Jones, C. M. C.; Hammert, W. C.	Identification of Clinical and Demographic Predictors for Treatment Modality in Patients With Carpal Tunnel Syndrome	2021	very low quality
Curran, M. W. T.; Morhart, M. J.; Olson, J. L.; Hachisuka, A.; Chan, K. M.	Acetyl-L-Carnitine to Enhance Nerve Regeneration in Carpal Tunnel Syndrome: A Double-Blind, Randomized, Controlled Trial	2019	post-op vitamin; irrelevant intervention
Tang, C. Q. Y.; Lai, S. W. H.; Tay, S. C.	Patient-reported outcomes of carpal tunnel release surgery in patients with bilateral severe carpal tunnel syndrome	2017	No comparison group; Both interventions include the same technique and only compare resolution after first or second operation
Aggarwal, P.; Jirankali, V.; Garg, S. K.	Accuracy of high-resolution ultrasonography in establishing the diagnosis of carpal tunnel syndrome	2020	Irrelevant comparison: already diagnosed CTS patients vs healthy controls
Guo, X. Y.; Xiong, M. X.; Zhao, Y.; He, F. D.;	Comparison of the Clinical Effectiveness of Ultrasound-Guided Corticosteroid Injection with and	2017	Comparison of same intervention.

Authors	Article Title	Year	Reason for Exclusion
Cheng, X. Q.; Wu, Y. Y.; Chen, K.; Lu, M.	without Needle Release of the Transverse Carpal Ligament in Carpal Tunnel Syndrome		
Bagga, B.; Sinha, A.; Khandelwal, N.; Modi, M.; Ahuja, C. K.; Sharma, R.	Comparison of Magnetic Resonance Imaging and Ultrasonography in Diagnosing and Grading Carpal Tunnel Syndrome: A Prospective Study	2020	Irrelevant comparison: already diagnosed CTS patients vs healthy controls
Aly, A. M.	Sonography-Guided Peripheral Nerve Blocks for Hand Surgery	2022	local v. local
Guastafierro, A.; Avvedimento, S.; Pieretti, G.; Gulotta, E.; Izzo, S.; Nicoletti, G. F.; Ciccarelli, F.	Steri-Strips™ vs. intracuticular skin suture in endoscopic release of carpal tunnel: a retrospective study and review of the literature	2020	irrelevant comparison
Povedano, M.; Martinez, Y.; Tejado, A.; Arroyo, P.; Tebe, C.; Lorenzo, J. L.; Montero, J.	Observational pilot study of patients with carpal tunnel syndrome treated with Nucleo CMP Forte TM	2019	No comparison group
Goncu Ayhan, S.; Ayhan, E.; Caglar, A. T.; Sahin, D.	Ultrasonography for carpal tunnel syndrome in pregnancy: a prospective cross-sectional study	2022	included already diagnosed CTS cases
Aloi, N. F.; Cluts, L. M.; Fowler, J. R.	Ultrasound Measurements of the Median Nerve at the Distal Wrist Crease Correlate With Electrodiagnostic Studies	2022	performed tests in already diagnosed CTS patients
Hsu, P. C.; Liao, K. K.; Lin, K. P.; Chiu, J. W.; Wu, P. Y.; Chou, C. L.; Wang, N. Y.; Wang, J. C.	Comparison of Corticosteroid Injection Dosages in Mild to Moderate Idiopathic Carpal Tunnel Syndrome: A Randomized Controlled Trial	2020	irrelevant comparison
Fakunle, O.; Farley, K. X.; DeMaio, E. L.; Gottschalk, M. B.; Wagner, E. R.; Daly, C. A.	When Is It Safe to Operate After Therapeutic Carpal Tunnel Injections?	2021	irrelevant topic
Collins, P. S.; Apel, P. J.; Truong, A. Y.; Zarei, M.; Lozano, A. J.; Capito, A. E.	The Utility of Preoperative HbA1c as a Standardized Protocol in Elective Carpal Tunnel Release: A Retrospective Review of Clinical Outcomes	2022	irrelevant comparison
Sraj, S.	Carpal Tunnel Release With Wide Awake Local Anesthesia and No Tourniquet: With Versus Without Epinephrine	2021	local versus local
Degeorge, B.; Coulomb, R.; Kouyoumdjian, P.; Mares, O.	Bilateral simultaneous endoscopic carpal tunnel release: Mean time to resume activities of daily living and return to work	2018	No comparison group
Areson, D. G.; Filer, W. G.; Harris, M. G.; Howard, J. F., Jr.; Shuping, L. T.; Traub, R.	Accuracy of the Scratch Collapse Test for Carpal Tunnel Syndrome in Comparison With Electrodiagnostic Studies	2020	irrelevant comparison
Cousins, G. R.; Gill, S. L.; Tinning, C. G.; Johnson, S. M.; Rickhuss, P. K.	Arm versus forearm tourniquet for carpal tunnel decompression - Which is better? A randomized controlled trial	2015	Irrelevant comparison; same intervention type

Authors	Article Title	Year	Reason for Exclusion
Torres-Cuenca, T.; Ortiz-Corredor, F.; Diaz-Ruiz, J.; Orozco-Salomon, D.; Naranjo-Quevedo, A.	Correlation Nerve Conduction Studies with Findings of the Ultrasound of the Median Nerve in Patients with Carpal Tunnel Syndrome	2021	irrelevant patients population
Cho, Y. J.; Lee, J. H.; Shin, D. J.; Park, K. H.	Comparison of short wrist transverse open and limited open techniques for carpal tunnel release: a randomized controlled trial of two incisions	2016	Irrelevant comparison; both open releases
Yu, G.; Chen, Q.; Wang, D.; Wang, X.; Li, Z.; Zhao, J.; Song, C.; Wang, H.; Wang, Z.	Diagnosis of carpal tunnel syndrome assessed using high-frequency ultrasonography: cross-section areas of 8-site median nerve	2016	Participants have already been diagnosed
Lee, Y. S.; Choi, E.	Ultrasonographic changes after steroid injection in carpal tunnel syndrome	2017	
Coraci, D.; Loreti, C.; Granata, G.; Arezzo, M. F.; Padua, L.	Carpal tunnel syndrome treatment with palmitoylethanolamide: neurophysiology and ultrasound show small changes in the median nerve	2018	No Outcomes
Wang, J. C.; Liao, K. K.; Lin, K. P.; Chou, C. L.; Yang, T. F.; Huang, Y. F.; Wang, K. A.; Chiu, J. W.	Efficacy of Combined Ultrasound-Guided Steroid Injection and Splinting in Patients With Carpal Tunnel Syndrome: A Randomized Controlled Trial	2017	Inappropriate comparison; Both groups have injection
Nair, P. P.; Wadwekar, V.; Chakkalakkoombil, S. V.; Narayan, S. K.; Marusani, R.; Murgai, A.; Thirunavukkarasu, S.; Krishnamoorthy, A.; Thazhath, H. K.	Comparison of proximal and distal corticosteroid injections for carpal tunnel syndrome	2020	steroid vs. steroid
Sanaee, S.; Roshanzamir, S.; Homayounee, K.	Efficacy of long-term splinting in the treatment of severe carpal tunnel syndrome	2017	irrelevant comparison: same intervention different time-frames
Iqbal, H. J.; Doorgakant, A.; Rehmatullah, N. N. T.; Ramavath, A. L.; Pidikiti, P.; Lipscombe, S.	Pain and outcomes of carpal tunnel release under local anaesthetic with or without a tourniquet: a randomized controlled trial	2018	irrelevant comparison: local vs. local
Wang, J. C.; Lin, K. P.; Liao, K. K.; Chang, Y. C.; Wang, K. A.; Huang, Y. F.; Chiu, J. W.	Sonographic median nerve change after steroid injection for carpal tunnel syndrome	2018	No comparison group
Hsu, Y. C.; Yang, F. C.; Hsu, H. H.; Huang, G. S.	Ultrasound-Guided Corticosteroid Injection in Patients with Carpal Tunnel Syndrome: Efficacy of Intra-Epineurial Injection	2018	Irrelevant comparison: steroid inj. vs steroid inkj. Comparison is placement
Sahoo, J. K.; Joshi, A. G.; Sahoo, K. N.	Effect of exercise on nerve conduction study of carpal tunnel syndrome patients	2021	irrelevant comparison
Rimdeika, R.; Cepas, A.; Liubauskas, R.; Pilipaityte, L.; Rimdeikiene, I.	Proximal carpal crease incision for carpal tunnel release: a pilot study	2019	open vs. open. same incision length, different locations



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Oten, E.; Ugur, L.	3D volumetric evaluation of the diagnosis and severity of carpal tunnel syndrome using MRI	2022	outcome not of our interest
Wolny, T.; Saulicz, E.; Linek, P.; Mysliwiec, A.; Saulicz, M.	Effect of manual therapy and neurodynamic techniques vs ultrasound and laser on 2PD in patients with CTS: A randomized controlled trial	2016	irrelevant patient reported outcomes
Mulroy, E.; Pelosi, L.	Carpal tunnel syndrome in advanced age: A sonographic and electrodiagnostic study	2019	Irrelevant population: already diagnosed patients with CTS
Gonzalez-Suarez, C. B.; Fidel, B. C.; Cabrera, J. T. C.; Dela Cruz, F. C.; Gesmundo, M. V. T.; Regala, C. F. G.; Saratan, R.; Suarez, C. G.; Grimmer, K.	Diagnostic Accuracy of Ultrasound Parameters in Carpal Tunnel Syndrome: Additional Criteria for Diagnosis	2019	Irrelevant comparison: healthy control group and already diagnosed CTS patients
Moon, P. P.; Maheshwari, D.; Sardana, V.; Bhushan, B.; Mohan, S.	Characteristics of nerve conduction studies in carpal tunnel syndrome	2017	Irrelevant comparison: already diagnosed CTS patients vs healthy controls
Csillik, A.; Bereczki, D.; Bora, L.; Aranyi, Z.	The significance of ultrasonographic carpal tunnel outlet measurements in the diagnosis of carpal tunnel syndrome	2016	Irrelevant population: already diagnosed patients with CTS vs. healthy control
Xue, H.; Zhang, B.; Rong, J.	Effect of extracorporeal shock wave therapy on carpal tunnel syndrome based on medical big data	2021	Editorial letter
Moschovos, C.; Tsivgoulis, G.; Kyrozis, A.; Ghika, A.; Karachalia, P.; Voumvourakis, K.; Chroni, E.	The diagnostic accuracy of high-resolution ultrasound in screening for carpal tunnel syndrome and grading its severity is moderated by age	2019	Irrelevant population: healthy control group
Fuzier, R.; Serres, I.; Bourrel, R.; Palmaro, A.; Lapeyre-Mestre, M.	Analgesic Drug Prescription After Carpal Tunnel Surgery: A Pharmacoepidemiological Study Investigating Postoperative Pain	2018	Irrelevant outcomes: opioid usage/prescription postop
Rangeela, M.; Mohanraj, K. G.; Rajendran, D.	Association between carpal tunnel syndrome and usage of computer keyboard and mouse in young, adult and middle-aged female information technology professionals – a survey based analysis	2020	irrelevant comparison; no control group
Clement, N. D.; Duckworth, A. D.; Jenkins, P. J.; McEachan, J. E.	Interpretation of the QuickDASH score after open carpal tunnel decompression: threshold values associated with patient satisfaction	2016	No comparison group - all patients received OCTR
Koike, H.; Morozumi, S.; Kawagashira, Y.; Iijima, M.; Yamamoto, M.; Hattori, N.; Tanaka, F.; Nakamura, T.; Hirayama, M.; Ando, Y.; Ikeda, S.; Sobue, G.	The significance of carpal tunnel syndrome in transthyretin Val30Met familial amyloid polyneuropathy	2009	irrelevant population; no CTS surgery;
Randall, D. J.; Peacock, K.; Nickel, K. B.; Olsen, M. A.; Kazmers, N. H.	Moving Minor Hand Surgeries out of the Operating Room and Into the Office-Based Procedure Room: A Population-Based Trend Analysis	2022	No outcomes of interest; trend analysis

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Schroeder, M. J.; Reddy, N.; Rust, A.; O'Brien, A. L.; Jain, S. A.	Open Versus Endoscopic Carpal Tunnel Release: A Comparison of Opioid Prescription Patterns and Occupational Therapy Referrals	2022	No outcomes of interest: opioid use post surgery, OT referral, etc.
Grandizio, L. C.; Mettler, A. W.; Warnick, E. P.; Delma, S.; Baylor, J. L.; Ozdag, Y.; Klana, J. C.	Intraoperative Conversion From Endoscopic to Open Carpal Tunnel Release: A Systematic Review and Case Series	2022	systematic review; bib review complete
Evans, A. G.; Morgan, M. D.; Aiken, B. A.; Assi, P. E.; Joseph, J. T.; Kesayan, T.; Mioton, L. M.; Esteve, I. V. M.; Hill, J. B.; Thayer, W. P.; Al Kassis, S.	Can Diffusion Tensor Imaging Apparent Diffusion Coefficient Diagnose Carpal Tunnel Syndrome? A Systematic Review and Meta-Analysis	2022	systematic review; bib review complete
Frazier, M. C.; Tomooka, L. B. H.; Foeger, N.; Hagan, H. J.; Apel, P. J.	Including a Vessel Loop in Wound Closure Facilitates Suture Removal Following Open Carpal Tunnel Release	2022	Follow up criteria not met; f/u only 6 weeks
Ahmad, F.; Neral, M.; Hoyer, H.; Simcock, X.; Malone, K.	Does Time to Operative Intervention of Distal Radius Fractures Influence Outcomes?	2022	Irrelevant topic: postop complications following distal radius fx
Lee, T. Y.; Dy, C. J.; Ray, W. Z.; Colorado, B. S.; Brogan, D. M.	Gray-Scale and Power Doppler Ultrasound Findings Predictive of Cubital Tunnel Syndrome Severity	2022	Irrelevant Population: No CTS (cubital tunnel syndrome)
Aversano, F. J.; Goldfarb, C. A.; Gelberman, R. H.; Calfee, R. P.	The Utility of the Carpal Tunnel Syndrome-6 for Predicting the Outcomes of Carpal Tunnel Release	2022	irrelevant population, patients going into CTR, already diagnosed with CTS
Khan, S.; Mosa, A.; Clayton, A.; McCabe, S.	Hand and Wrist Injuries Associated With Application of Physical Restraints: A Systematic Review	2022	systematic review; bib review complete
Rocks, M. C.; Donnelly, M. R.; Li, A.; Glickel, S. Z.; Catalano, L. W., 3rd; Posner, M.; Hacquebord, J. H.	Demographics of Common Compressive Neuropathies in the Upper Extremity	2022	medical records review
Kwiecien, G. J.; Ohliger, E.; Chughtai, M.; Strnad, G.; Seitz, W. H., Jr.	Concomitant Total Shoulder Arthroplasty and Ipsilateral Carpal Tunnel Release: Is it Safe?	2022	Irrelevant comparison: patients undergoing concomitant TSA and CTR
Aloi, N. F.; Kohls, M. R.; Wera, J. C.; Fowler, J. R.	Ultrasound Cross-Sectional Area of the Median Nerve Is Not a Predictor of Patient Reported Outcomes After Carpal Tunnel Release	2022	irrelevant comparison
McEntee, R. M.; Tulipan, J.; Beredjiklian, P. K.	Risk Factors and Outcomes in Carpal Tunnel Syndrome Following Distal Radius Open Reduction Internal Fixation	2022	Irrelevant topic: CTS as a complication following operative repair of distal radius fx
DiBenedetto, M.; Soong, M.; Hunter, A.; Tolo, E.; Clair, B.; Kasparyan, N. G.	Prevalence and Subtypes of Tenosynovial Amyloid in Patients Undergoing Carpal Tunnel Release	2022	no comparison/control group

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Aloi, N. F.; Rahman, H.; Fowler, J. R.	Changes in Cross-sectional Area of the Median Nerve and Boston Carpal Tunnel Questionnaire Scores After Carpal Tunnel Release	2022	No comparison group: all patients had endoscopic CTR
Saglam, G.; Turgut, M. C.; Semis, H. S.; Toy, S.	Ultrasonographic Measurement of Median Nerve Cross-Sectional Area in Evaluating Carpal Tunnel Release Outcomes	2022	irrelevant population; patients already underwent CTR, diagnosed previously with CTS
Lee, S. K.; Kim, S. G.; Kim, H.; Choy, W. S.	Carpal tunnel release under wide awake local anesthesia with no tourniquet in hemodialysis patients with arteriovenous shunt	2022	Irrelevant comparison: local vs. local
Ashour, A. A.; Yehia, R. M.; ElMeligie, M. M.; Hanafy, A. F.	Effectiveness of high intensity laser therapy on pain, grip strength and median nerve conductivity in pregnant women with carpal tunnel syndrome: A randomized controlled trial	2022	irrelevant patient reported outcomes and data reporting.
Razali, H.; Raj, N. B.; Wan-Arfah, N.; Mahadeva Rao, U. S.; Yusoff, Z.; Subramanian, S. S.	Effectiveness of Shock Wave Therapy on Severity and Function in Idiopathic Carpal Tunnel Syndrome: A Pilot Study	2022	No comparison group; >10 patients per group
Kleopa, K. A.	Carpal tunnel syndrome	2015	Review article
Chow, J. C. Y.	Endoscopic carpal tunnel release: Two-portal technique	1994	Review article
Shinohara, I.; Inui, A.; Mifune, Y.; Nishimoto, H.; Yamaura, K.; Mukohara, S.; Yoshikawa, T.; Kato, T.; Furukawa, T.; Hoshino, Y.; Matsushita, T.; Kuroda, R.	Using deep learning for ultrasound images to diagnose carpal tunnel syndrome with high accuracy	2022	irrelevant comparison, irrelevant population used healthy volunteers
Lee, J. K.; Yoon, B. N.; Kim, D. W.; Ryu, H. S.; Jang, I.; Kim, H.; Han, S. H.	Factors affecting contralateral wrist surgery after one carpal tunnel release in bilateral carpal tunnel syndrome	2022	irrelevant comparison for PICO 2, no typing or clerical work
Zochowski, K. C.; Tan, E. T.; Argentieri, E. C.; Lin, B.; Burge, A. J.; Queler, S. C.; Lebel, R. M.; Sneag, D. B.	Improvement of peripheral nerve visualization using a deep learning-based MR reconstruction algorithm	2022	Irrelevant Population: No CTS
de Roo, S. F.; van Leeuwen, W. F.; Coert, J. H.; van der Heijden, B.	Treatment of Recurrent Carpal Tunnel Syndrome with the Abductor Digiti Minimi Flap: A Case Series	2022	only 7 patients studied, irrelevant surgical procedure
Song, K.; Wang, Y.; Yi, R.; Lakshminarayanan, K.; Zhang, G.; Yao, Y.	The effects of wrist position and radioulnar wrist compression on median nerve longitudinal mobility	2022	irrelevant comparison, used healthy controls
Kinugasa, E.; Akizawa, T.; Kitaoka, T.; Koshikawa, S.	Evaluation of $\beta$ 2-microglobulin removal with high-performance hemodiafiltration	1988	irrelevant population, patients not undergoing CTR
Yamamoto, M.; Kato, Y.; Nakagawa, Y.; Hirata, H.; Takeuchi, J.	Predictive factors and clinical effects of diabetic hand: A prospective study with 1-year follow-up	2022	no exposures of interest

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Argiles, A.; Mourad, G.; Axelrud-Cavadore, C.; Watrin, A.; Mion, C.; Cavadore, J. C.	High-molecular-mass proteins in hemodialysis-associated amyloidosis	1989	only 8 patients in studied group
Campagnolo, M.; Cacciavillani, M.; Cipriani, A.; Salvalaggio, A.; Castellani, F.; Pilichou, K.; Briani, C.	Peripheral nerve involvement in wild-type transthyretin amyloidosis	2022	Irrelevant Population: No CTS
Grigoriou, S. S.; Karatzaferi, C.; Giannaki, C. D.; Patramani, G.; Vogiatzi, C.; Mitrou, G. I.; Stefanidis, I.; Sakkas, G. K.	The effect of a 9-month hybrid intradialytic exercise training program on nerve conduction velocity parameters in patients receiving hemodialysis therapy	2022	Irrelevant Population: No CTS
Van Boxtael, S.; Lopez, A. M.; Balocco, A. L.; Vandepitte, C.; Meex, I.; Duerinckx, J.; Kuroda, M. M.; Mesotten, D.; Van Herreweghe, I.; Hadzic, A.	Effect of Lidocaine 2% Versus Bupivacaine 0.5% and 1 Versus 2 Dual Separate Injections on Onset and Duration of Ultrasound-Guided Wrist Blocks: A Blinded 2 × 2 Factorial Randomized Clinical Trial	2022	Sample sizes too small, <10
Shin, K. J.; Yi, J.; Hahn, S.	Shear-wave elastography evaluation of thenar muscle in carpal tunnel syndrome	2022	irrelevant diagnostic test, patients already diagnosed with CTS
Del Pinal, F.	Outcomes of Carpal Tunnel Release in Complex Regional Pain Syndrome/Reflex Sympathetic Dystrophy/Sudeck Disease Patients	2022	only open procedures in all patients
Wessel, L. E.; Kerluku, J.; Nwawka, O. K.; Miller, T. T.; Nguyen, J. T.; Fufa, D. T.	Sonographic Changes in the Median Nerve Predict Conversion to Surgery after Corticosteroid Injection of the Carpal Tunnel	2022	Irrelevant topic: risk factors for surgery after injection
Blumberg, A.; Burgi, W.	Behavior of $\beta$ 2-microglobulin in patients with chronic renal failure undergoing hemodialysis, hemodiafiltration and continuous ambulatory peritoneal dialysis (CAPD)	1987	Irrelevant topic: chronic renal failure
Mokhtarinia, H. R.; Parsons, D.; Bain, C. R.; Gabel, C. P.	Independent risk factors of carpal tunnel syndrome: Assessment of body mass index, hand, wrist and finger anthropometric measurements	2022	Irrelevant topic: role of BMI, hand/wrist/finger anthropometric dimensions
Raut, P.; Jones, N.; Raad, M.; Kieffer, W.	Common peripheral nerve entrapments in the upper limb	2022	Review article
Khayambashi, S.; Elzinga, K.; Hahn, C.; Chhibber, S.; Mahe, E.; Miller, R. J. H.; White, J. A.; Howlett, J. G.; Jimenez-Zepeda, V.; Fine, N. M.	Amyloidosis Tissue Confirmation for Tafamidis Eligibility Using Transverse Carpal Ligament and Tenosynovium Biopsy	2022	Review article

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Thimm, A.; Carpinteiro, A.; Oubari, S.; Papathanasiou, M.; Luedike, P.; Kessler, L.; Rischpler, C.; Blau, T.; Reinhardt, H. C.; Rassaf, T.; Schmidt, H.; Kleinschnitz, C.; Hagenacker, T.	Prevalence and predictors of neurological manifestations in systemic AL amyloidosis	2022	Irrelevant topic: prevalence & predictors of neurological manifestations of AL amyloidosis
Okada, M.; Miyazaki, S.; Hirasawa, Y.	Increase in plasma concentration of ubiquitin in dialysis patients: Possible involvement in $\beta$ 2-microglobulin amyloidosis	1993	Irrelevant topic: plasma concentration in dialysis patients
Ogawa, H.; Saito, A.; Oda, O.; Nakajima, M.; Chung, T. G.	Detection of novel $\beta$ 2-microglobulin in the serum of hemodialysis patients and its amyloidogenic predisposition	1988	Irrelevant comparison: serum from dialyzed vs. undialyzed patients
Sepehrvand, N.; Youngson, E.; Fine, N.; Venner, C. P.; Paterson, I.; Bakal, J.; Westerhout, C.; McAlister, F. A.; Kaul, P.; Ezekowitz, J. A.	The Incidence and Prevalence of Cardiac Amyloidosis in a Large Community-Based Cohort in Alberta, Canada	2022	Irrelevant topic: incidence & prevalence of cardiac amyloidosis
Sahin, H.; Caliskan, H.; Uslusoy, M. Y.	Comparison of the modified method and the median sensory-ulnar motor latency difference in the diagnosis of carpal tunnel syndrome	2022	Irrelevant population: study group included 25 hands with radiculopathy complaints, not CTS symptoms
Lyu, S.; Zhang, Y.; Zhang, M.; Jiang, M.; Yu, J.; Zhu, J.; Zhang, B.	Ultrasound-based radiomics in the diagnosis of carpal tunnel syndrome: The influence of regions of interest delineation method on mode	2022	Irrelevant population/comparison: CTS vs. healthy control
Baute Penry, V.; Gandhi Mehta, R. K.; Alavi, R. H.	Neuromuscular Ultrasound of the Median Nerve at the Carpal Tunnel	2022	Protocol for visualizing median nerve using ultrasound
Zhou, H.; Bai, Q.; Hu, X.; Alhaskawi, A.; Dong, Y.; Wang, Z.; Qi, B.; Fang, J.; Kota, V. G.; Abdulla, Mhah; Ezzi, S. H. A.; Lu, H.	Deep CTS: a Deep Neural Network for Identification MRI of Carpal Tunnel Syndrome	2022	Irrelevant topic: Deep CTS learning framework to segment MRIs
Asgar, A.; Patra, A.; Satish Ravi, K.; Tubbs, R. S.; Kumar, A.; Naaz, S.	Bifid median nerve as an anatomical risk factor for carpal tunnel syndrome: A meta-analysis	2022	no outcomes of interest
Mick, G.; Correa-Illanes, G.	Topical pain management with the 5 lidocaine medicated plaster a review	2012	Systematic review; bib review complete
Papacharalambous, C.; Savva, C.; Karagiannis, C.; Giannakou, K.	The effectiveness of slider and tensioner neural mobilization techniques in the management of upper quadrant pain: A systematic review of randomized controlled trials	2022	systematic review: bib review complete
Appasamy, M.; Lam, C.; Alm, J.; Chadwick, A. L.	Trigger Point Injections	2022	Systematic review; bib review complete
O'Bryan, R.; Kincaid, J.	Nerve Conduction Studies: Basic Concepts and Patterns of Abnormalities	2021	Review article

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Georgeto, S. M.; Picharski, G. L.; Andraus, R. A. C.; da Silva, R. A.; Ngomo, S.; Fernandes, K. B. P.	Outcomes of bilateral carpal tunnel syndrome treatment - A systematic review and meta-analysis	2022	Systematic review; bib review complete
Malakootian, M.; Soveizi, M.; Gholipour, A.; Oveisee, M.	Pathophysiology, Diagnosis, Treatment, and Genetics of Carpal Tunnel Syndrome: A Review	2022	systematic review: bib review complete
Du, J.; Yuan, Q.; Wang, X. Y.; Qian, J. H.; An, J.; Dai, Q.; Yan, X. Y.; Xu, B.; Luo, J.; Wang, H. Z.	Manual Therapy and Related Interventions for Carpal Tunnel Syndrome: A Systematic Review and Meta-Analysis	2022	systematic review: bib review complete
Asghar, A.; Naaz, S.; Ansari, S.; Kumar, A.; Singh, V.	The cross-sectional morphology of median nerve in carpal tunnel of healthy, adult population: A systematic review and meta-analysis	2022	systematic review; irrelevant topic
Currie, K. B.; Tadisina, K. K.; Mackinnon, S. E.	Common Hand Conditions: A Review	2022	Systematic review; bib review complete
Chen, J.; Fowler, J. R.	Ultrasound Findings in Patients with Normal Nerve Conduction despite Clinical Signs and Symptoms Consistent with Carpal Tunnel Syndrome	2022	Irrelevant comparison: NCS + US vs. CTS negative patients
Paraskevopoulos, E.; Karanasios, S.; Gioftos, G.; Tatsios, P.; Koumantakis, G.; Papandreou, M.	The effectiveness of neuromobilization exercises in carpal tunnel syndrome: Systematic review and meta-analysis	2022	systematic review: bib review complete
Llopis, E.; Cerezal, L.; Auban, R.; Aguilera, L.; Pinal, F. D.	Postoperative Imaging of the Wrist and Hand	2022	review; irrelevant topic
Sood, R. F.; Lipira, A. B.	Risk of Amyloidosis and Heart Failure Among Patients Undergoing Surgery for Trigger Digit or Carpal Tunnel Syndrome: A Nationwide Cohort Study With Implications for Screening	2022	Irrelevant comparison: incidence of amyloidosis. No comparison group
Cassanego, G.; Rodrigues, P.; De Freitas Bauermann, L.; Trevisan, G.	Evaluation of the analgesic effect of $\alpha$ -lipoic acid in treating pain disorders: A systematic review and meta-analysis of randomized controlled trials	2022	Systematic review; bib review complete
Yilmaz, E.; Toluk, O.	Comparison of clinical findings and electromyography results in patients with preliminary diagnosis of carpal tunnel syndrome	2022	No outcomes of interest
Liao, C. D.; Abdou, S. A.; Daar, D. A.; Lee, Z. H.; Thanik, V.	Patient-Centred Outcomes Following Open Carpal Tunnel Release: A Systematic Review of the Current Literature	2022	systematic review: bib review complete
Lin, T. Y.; Chang, K. V.; Wu, W. T.; Ozcakar, L.	Ultrasonography for the diagnosis of carpal tunnel syndrome: an umbrella review	2022	systematic review, bib review complete
Nabhan, A.; Steudel, W. I.; Dedeman, L.; Al-Khayat, J.; Ishak, B.	Subcutaneous local anesthesia versus intravenous regional anesthesia for endoscopic carpal tunnel release: A randomized controlled trial - Clinical article	2011	Same as AAOS ID 3204 already extracted.
Pratelli, E.; Pintucci, M.; Cultrera, P.; Baldini, E.; Stecco, A.	Conservative treatment of carpal tunnel syndrome: comparison between laser therapy and fascial manipulation	2015	duplicate of AAOS ID 2765: already extracted

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Petrocelli, A.; Pasquetti, P.			
Gejyo, F.; Homma, N.; Arakawa, M.	Carpal tunnel syndrome and $\beta$ 2-microglobulin-related amyloidosis in chronic hemodialysis patients	1988	narrative review
Izmalkov, S. N.; Semenkin, O. M.; Bratiichuk, A. N.	Carpal tunnel syndrome: Does preoperative disease severity influence the outcome of mini-open surgery?	2022	irrelevant comparison
Boukebous, B.; Maillot, C.; Castel, L. C.; Donadio, J.; Boyer, P.; Rousseau, M. A.	Wide Awake Local Anesthesia No Tourniquet (WALANT) versus Axillary Brachial Plexus Block for carpal tunnel release in a French public university hospital: care pathways and operating room costs	2022	No outcomes of interest; no complications/PROs reported.
Salerno, S.; Giliberti, C.	Women's wrist and elbow at work: analysis of acute injuries and cumulative trauma disorders to improve ergonomics in female-dominated activities	2022	Irrelevant topic: wrist & elbow injuries at work
Baklaci, K.	Long-term effectiveness of physical therapy modalities in carpal tunnel syndrome	2015	Summary of multiple abstracts
Westin, O.; Fosbol, E. L.; Maurer, M. S.; Leicht, B. P.; Hasbak, P.; Mylin, A. K.; Rorvig, S.; Lindkaer, T. H.; Johannesen, H. H.; Gustafsson, F.	Screening for Cardiac Amyloidosis 5 to 15 Years After Surgery for Bilateral Carpal Tunnel Syndrome	2022	No comparison group
Hegmann, K. T.; Merryweather, A.; Thiese, M. S.; Kendall, R.; Garg, A.; Kapellusch, J.; Foster, J.; Drury, D.; Wood, E. M.; Melhorn, J. M.	Median Nerve Symptoms, Signs, and Electrodiagnostic Abnormalities Among Working Adults	2018	Irrelevant topic; patient populatio
Cranford, C. S.; Ho, J. Y.; Kalainov, D. M.; Hartigan, B. J.	Carpal tunnel syndrome	2007	systematic review; excluded
Cunningham, D. J.; Saltzman, E. B.; Lorenzana, D. J.; Klifto, C. S.; Richard, M. J.; Pidgeon, T. S.	Opioid Prescription After Carpal Tunnel Release Is Declining Independent of State Laws	2021	No comparison group or outcomes of interest
Mahmood, B.; Chongshu, C.; Qiu, X.; Messing, S.; Hammert, W. C.	Comparison of the Michigan Hand Outcomes Questionnaire, Boston Carpal Tunnel Questionnaire, and PROMIS Instruments in Carpal Tunnel Syndrome	2019	no outcomes of interest
Kirby, D.; Donnelly, M.; Buchalter, D.; Gonzalez, M.; Catalano, L.; Hacquebord, J.	Influence of Corticosteroid Injections on Postoperative Infections in Carpal Tunnel Release	2021	Irrelevant topic: corticosteroid injections prior to surgery
Kronlage, S. C.; Menendez, M. E.	The benefit of carpal tunnel release in patients with electrophysiologically moderate and severe disease	2015	irrelevant comparison: Moderate vs. severe CTS
Hattori, Y.; Doi, K.; Koide, S.; Sakamoto, S.	Endoscopic release for severe carpal tunnel syndrome in octogenarians	2014	update PICO published before 2015, captured in 2016, Irrelevant Comparison
Zhang, D.; Janssen, S. J.; Blazar, P.; Earp, B. E.	Predictors of Future Contralateral Carpal Tunnel Release at the Time of Unilateral Surgery	2019	no outcomes of interest

Authors	Article Title	Year	Reason for Exclusion
Stephens, A. R.; Presson, A. P.; Jo, Y. J.; Tyser, A. R.; Wang, A. A.; Hutchinson, D. T.; Kazmers, N. H.	Evaluating the Safety of the Hand Surgery Procedure Room: A Single-Center Cohort of 1,404 Surgical Encounters	2021	No comparison group - all patients treated in PR and not just for CTS related surgeries.
Simon, J.; Lutsky, K.; Maltenfort, M.; Beredjiklian, P. K.	The Accuracy of the Scratch Collapse Test Performed by Blinded Examiners on Patients With Suspected Carpal Tunnel Syndrome Assessed by Electrodiagnostic Studies	2017	Irrelevant Comparison
Schwartzenberger, J.; Presson, A.; Lyle, A.; O'Farrell, A.; Tyser, A. R.	Remote Collection of Patient-Reported Outcomes Following Outpatient Hand Surgery: A Randomized Trial of Telephone, Mail, and E-Mail	2017	intervention method not specified: no outcomes of interest
Jansen, M. C.; Duraku, L. S.; Hundepool, C. A.; Power, D. M.; Rajaratnam, V.; Selles, R. W.; Zuidam, J. M.	Management of Recurrent Carpal Tunnel Syndrome: Systematic Review and Meta-Analysis	2021	systematic review; bib review complete
Charles, S.; Oommen, K.; Ong, J.; Fowler, J. R.	Use of Ultrasound in Patients With Carpal Tunnel Syndrome: A Cost-Effective Solution to Reduce Delays in Surgical Care	2021	Irrelevant topic: patients underwent either EMG or US for diagnosis, not both.
Paryavi, E.; Zimmerman, R. M.; Means, K. R., Jr.	Endoscopic Compared with Open Operative Treatment of Carpal Tunnel Syndrome	2016	Review article
Yamanaka, Y.; Tajima, T.; Tsujimura, Y.; Kosugi, K.; Mano, Y.; Zenke, Y.; Hachisuka, A.; Aoki, T.; Sakai, A.	Molecular and Clinical Elucidation of the Mechanism of Action of Steroids in Idiopathic Carpal Tunnel Syndrome	2021	No comparison group - all patients received TA injections
Sood, R. F.; Kamenko, S.; McCreary, E.; Sather, B. K.; Schmitt, M.; Peterson, S. L.; Lipira, A. B.	Diagnosing Systemic Amyloidosis Presenting as Carpal Tunnel Syndrome: A Risk Nomogram to Guide Biopsy at Time of Carpal Tunnel Release	2021	Irrelevant topic: predictive model for amyloidosis
Brown, R. A.; Gelberman, R. H.; Seiler Iii, J. G.; Abrahamsson, S. O.; Weiland, A. J.; Urbaniak, J. R.; Schoenfeld, D. A.; Furcolo, D.	Carpal tunnel release. A prospective, randomized assessment of open and endoscopic methods	1993	update PICO published before 2015, captured in 2016
Kamal, R. N.; Ring, D.; Akelman, E.; Yao, J.; Ruch, D. S.; Richard, M.; Ladd, A.; Got, C.; Blazar, P.; Kakar, S.	Quality measures in upper limb surgery	2016	Systematic review; not relevant to any pico
Chung, B.; Graham, B.	Evidence-based hand and upper extremity surgery	2015	narrative review



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Aultman, H.; Roth, C. A.; Curran, J.; Angeles, J.; Mass, D.; Wolf, J. M.; Mica, M. C.	Prospective Evaluation of Surgical and Anesthetic Technique of Carpal Tunnel Release in an Orthopedic Practice	2021	Very low quality
Cagle, P. J., Jr.; Reams, M.; Agel, J.; Bohn, D.	An outcomes protocol for carpal tunnel release: a comparison of outcomes in patients with and without medical comorbidities	2014	update PICO published before 2015, captured in 2016, Irrelevant Comparison
Billig, J. I.; Kotsis, S. V.; Chung, K. C.; M. Chiqs Collaborators	Variation in Use of Electrodiagnostic Testing: Analysis From the Michigan Collaborative Hand Initiative for Quality in Surgery	2021	Irrelevant topic: EDS for CTS patients undergoing CTR
Bernstein, D. N.; Englert, C. H.; Hammert, W. C.	Evaluation of PROMIS' Ability to Detect Immediate Postoperative Symptom Improvement Following Carpal Tunnel Release	2021	No comparison group - all patients received CTR
Kamal, R. N.; Ring, D.; Akelman, E.; Ruch, D. S.; Richard, M. J.; Ladd, A.; Got, C.; Blazar, P.; Yao, J.; Kakar, S.	Quality Measures That Address the Upper Limb	2016	Systematic review; not relevant
Li, Y. K.; Alolabi, N.; Kaur, M. N.; Thoma, A.	A systematic review of utilities in hand surgery literature	2015	Systematic review; not relevant
Malahias, M. A.; Chytas, D.; Mavrogenis, A. F.; Nikolaou, V. S.; Johnson, E. O.; Babis, G. C.	Platelet-rich plasma injections for carpal tunnel syndrome: a systematic and comprehensive review	2019	Systematic review; bib review completed
Neuhaus, V.; Christoforou, D.; Cheriyan, T.; Mudgal, C. S.	Evaluation and Treatment of Failed Carpal Tunnel Release	2012	update PICO published before 2015, captured in 2016
Harris, A. H. S.; Ding, Q.; Trickey, A. W.; Finlay, A. K.; Schmidt, E. M.; Curtin, C. M.; Sears, E. D.; Yoshida, R.; Lashgari, D.; Nuckols, T. K.; Kamal, R. N.	Do Proposed Quality Measures for Carpal Tunnel Release Reveal Important Quality Gaps and Are They Reliable?	2022	No outcomes of interest per PICO - identifying quality gaps
Wade, R. G.; Wormald, J. C. R.; Figus, A.	Absorbable versus non-absorbable sutures for skin closure after carpal tunnel decompression surgery	2018	Systematic review; bib review completed
Gibson, W.; Wand, B. M.; O'Connell, N. E.	Transcutaneous electrical nerve stimulation (TENS) for neuropathic pain in adults	2017	Systematic review; bib review complete
Chern, T. C.; Kuo, L. C.; Shao, C. J.; Wu, T. T.; Wu, K. C.; Jou, I. M.	Ultrasonographically Guided Percutaneous Carpal Tunnel Release: Early Clinical Experiences and Outcomes	2015	No comparison group
Tang, C. Q. Y.; Lai, S. W. H.; Tay, S. C.	Long-term outcome of carpal tunnel release surgery in patients with severe carpal tunnel syndrome	2017	Very low quality
Peters, S.; Page, M. J.; Coppieters, M. W.; Ross, M.; Johnston, V.	Rehabilitation following carpal tunnel release	2016	Systematic review; bib review complete

Authors	Article Title	Year	Reason for Exclusion
Rankin, I. A.; Sargeant, H.; Rehman, H.; Gurusamy, K. S.	Low-level laser therapy for carpal tunnel syndrome	2017	Systematic review; bib review completed
Lubahn, J. D.	CORR Insights R: Which Psychological and Electrodiagnostic Factors Are Associated with Limb Disability in Patients with Carpal Tunnel Syndrome?	2022	Commentary on article
Kolovos, S.; Tsiotas, D.	Ultrasonographic diagnosis of carpal tunnel syndrome: introducing a new approach	2016	irrelevant population
Waitayawinyu, T.; Numnate, W.; Boonyasirikool, C.; Niempoog, S.	Outcomes of Endoscopic Carpal Tunnel Release With Ring Finger Flexor Digitorum Superficialis Opponensplasty in Severe Carpal Tunnel Syndrome	2019	no comparison group
Yeom, J. W.; Cho, J. H.; Kim, S. J.; Lee, H. I.	Cross-Sectional Area of the Median Nerve as a Prognostic Indicator in Carpal Tunnel Syndrome Treated With Local Steroid Injection	2021	irrelevant comparison: small-CSA vs. large-CSA
Miles, M. R.; Shetty, P. N.; Bhayana, K.; Yousaf, I. S.; Sanghavi, K. K.; Giladi, A. M.	Early Outcomes of Endoscopic Versus Open Carpal Tunnel Release	2021	<3months follow up after surgery (2 weeks)
Daliri, B. O. M.; Azhari, A.; Khaki, S.; Hajebi Khaniki, S.; Moradi, A.	Which Psychological and Electrodiagnostic Factors Are Associated with Limb Disability in Patients with Carpal Tunnel Syndrome?	2021	irrelevant comparison
Esteban-Feliu, I.; Gallardo-Calero, I.; Barrera-Ochoa, S.; Vidal-Tarrason, N.; Mir, X.; Lluch-Bergada, A.	Basal joint arthroplasty and carpal tunnel release comparing a single versus double incision: a prospective randomized study	2021	basal joint arthroplasty in conjunction with carpal tunnel release
Kortlever, J. T. P.; Becker, S. J. E.; Zhao, M.; Ring, D.	Borderline Nerve Conduction Velocities for Median Neuropathy at the Carpal Tunnel	2020	EDx vs. physician's interpretation
Drakopoulos, D.; Mitsiokapa, E.; Karamanis, E.; Kontogeorgakos, V.; Mavrogenis, A. F.	Ultrasonography Provides a Diagnosis Similar to That of Nerve Conduction Studies for Carpal Tunnel Syndrome	2019	Irrelevant population: healthy control group
Bohn, D. C.; Wise, K. L.	What's New in Hand and Wrist Surgery	2022	narrative review
Beredjikian, P.; Chisari, E.; Goh, G.; Jones, C. M.; Lu, A. C.; Mack, P. F.; Meermans, G.; Tulipan, J. E.	Recommendations from the ICM-VTE: Hand & Wrist	2022	narrative review
van den Berg, C.; van der Zwaard, B.; Halperin, J.; van der Heijden, B.	Factors associated with conversion to surgical release after a steroid injection in patients with a trigger finger	2022	Irrelevant topic: trigger finger
Chung, M. S.; Gong, H. S.; Baek, G. H.	Raynaud's phenomenon in idiopathic carpal tunnel syndrome	2000	doesn't answer pico question
Rankin, I. A.; Sargeant, H.	Low-level laser therapy for carpal tunnel syndrome	2017	systematic review: bib review complete

Authors	Article Title	Year	Reason for Exclusion
Rehman, H.; Gurusamy, K. S.			
Jones, M. C.	Management of carpal tunnel syndrome	2010	narrative review
Feuerstein, M.; Burrell, L. M.; Miller, V. I.; Lincoln, A.; Huang, G. D.; Berger, R.	Clinical management of carpal tunnel syndrome: A 12-year review of outcomes	1999	Systematic review; bib review completed
Kutlar, N.; Bayrak, A. O.; Bayrak, I. K.; Canbaz, S.; Turker, H.	Diagnosing carpal tunnel syndrome with Doppler ultrasonography: a comparison of ultrasonographic measurements and electrophysiological severity	2017	Irrelevant comparison: already diagnosed CTS patients vs healthy controls
Trillos-Chacon, M. C.; Castillo, M. Ja; Tolosa-Guzman, I.; Sanchez Medina, A. F.; Ballesteros, S. M.	Strategies for the prevention of carpal tunnel syndrome in the workplace: A systematic review	2021	systematic review; bib review complete
Dehghani, M.; Fadaei, B.; Rastegar, S.; Zarezadeh, A.; Ghadimi, K.; Nikkhah, R.; Eslami, S.	Modified Camitz versus BRAND Procedures for the Treatment of Severe Carpal Tunnel Syndrome: A Comparative Trial Study	2020	Irrelevant topic: opponensplasty comparison
Grobet, C.; Marks, M.; Tecklenburg, L.; Audige, L.	Application and measurement properties of EQ-5D to measure quality of life in patients with upper extremity orthopaedic disorders: a systematic literature review	2018	Systematic review; bib review completed
Huisstede, B. M.; Randsdorp, M. S.; van den Brink, J.; Franke, T. P. C.; Koes, B. W.; Hoogvliet, P.	Effectiveness of Oral Pain Medication and Corticosteroid Injections for Carpal Tunnel Syndrome: A Systematic Review	2018	Systematic review; bib review completed
Huisstede, B. M.; van den Brink, J.; Randsdorp, M. S.; Geelen, S. J.; Koes, B. W.	Effectiveness of Surgical and Postsurgical Interventions for Carpal Tunnel Syndrome-A Systematic Review	2018	Systematic review; bib review completed
Obuchowicz, R.; Kruszynska, J.; Strzelecki, M.	Classifying median nerves in carpal tunnel syndrome: Ultrasound image analysis	2021	Doesn't answer pico question
Saglik, S.; Demirtas, G.	The relationship between ultrasonography findings and physical examination findings in carpal tunnel syndrome	2017	Irrelevant comparison: already diagnosed CTS patients vs healthy controls
Bigat, Z.; Karsli, B.; Boztug, N.; Cete, N.; Ertok, E.	Comparison of the effect of low-dose ropivacaine and lidocaine in intravenous regional anaesthesia: A randomised, double-blind clinical study	2005	update PICO published before 2015, captured in 2016
Lee, S. K.; Kim, W. S.; Choy, W. S.	A randomized controlled trial of three different local anesthetic methods for minor hand surgery	2022	not all patients had CTS (49/169 had CTS)
Al-Obaidy, M. M. A. A.; Abbas, F. N.	Evaluation of Vitamin D Deficiency in Patients with Carpal Tunnel Syndrome	2020	Not relevant, does not answer pico question
Wong, C. H. L.; Wu, X. Y.; Wong, W.	Is adding electroacupuncture on top of nocturnal splinting an alternative treatment option for carpal tunnel syndrome patients?	2016	synopsis
Piehl, J. H.	Which nonsurgical treatments for carpal tunnel syndrome are beneficial?	2003	update PICO published before 2015, captured in 2016
Roomizadeh, P.; Eftekharsadat, B.; Abedini, A.; Ranjbar-	Ultrasonographic Assessment of Carpal Tunnel Syndrome Severity: A Systematic Review and Meta-Analysis	2019	Systematic review; bib review complete

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Kiyakalayeh, S.; Yousefi, N.; Ebadi, S.; Babaei-Ghazani, A.			
Nikoskinen, T.; Schmidt, E. K.; Strbian, D.; Kiuru- Enari, S.; Atula, S.	Natural course of Finnish gelsolin amyloidosis	2015	Irrelevant topic; patient population
Orhurhu, V.; Orman, S.; Peck, J.; Urits, I.; Orhurhu, M. S.; Jones, M. R.; Manchikanti, L.; Kaye, A. D.; Odonkor, C.; Hirji, S.; Cornett, E. M.; Imani, F.; Varrassi, G.; Viswanath, O.	Carpal Tunnel Release Surgery- A Systematic Review of Open and Endoscopic Approaches	2020	systematic review; bib review complete
Reuben, S. S.; Steinberg, R. B.; Lurie, S. D.; Gibson, C. S.	A dose-response study of intravenous regional anesthesia with meperidine	1999	does not answer pico question
M. Alahmad Y; Al-Khafaji, F.; Mohamad Alahmad, M. A.; Al-Taie, A.	Comprehensive Assessment of Ultrasound's Role in Carpal Tunnel Syndrome in Reference to Electromyography	2021	Very low quality
Ng, A. W. H.; Griffith, J. F.; Lee, R. K. L.; Tse, W. L.; Wong, C. W. Y.; Ho, P. C.	Ultrasound carpal tunnel syndrome: additional criteria for diagnosis	2018	does not answer pico question
Miranda-Medina, J.; Cavigiolo, M. B.; Soto, A.; Wolny, T.; Linek, P.	Is manual therapy based on neurodynamic techniques effective in the treatment of carpal tunnel syndrome? A randomized controlled trial	2019	letter to editor
Wu, I. X.; Lam, V. C.; Ho, R. S.; Cheung, W. K.; Sit, R. W.; Chou, L. W.; Zhang, Y.; Leung, T. H.; Chung, V. C.	Acupuncture and related interventions for carpal tunnel syndrome: systematic review	2020	systematic review; bib review complete
Rostami, H. R.; Akbarfahimi, M.; Hassani Mehraban, A.; Akbarinia, A. R.; Samani, S.	Occupation-based intervention versus rote exercise in modified constraint-induced movement therapy for patients with median and ulnar nerve injuries: a randomized controlled trial	2017	Irrelevant topic: study group consisted of patients with median and ulnar nerve injuries, CTS not specified
Razek, Aaka; Shabana, A. A. E.; El Saied, T. O.; Alrefey, N.	Diffusion tensor imaging of mild-moderate carpal tunnel syndrome: correlation with nerve conduction study and clinical tests	2017	Irrelevant comparison: suspected CTS patients vs healthy controls
Clijnsen, R.; Taeymans, J.; Baeyens, J. P.; Barel, A. O.; Clarys, P.	The effects of iontophoresis in the treatment of musculoskeletal disorders - a systematic review and meta-analysis	2012	Systematic review; bib review completed
Kotb, M. A.; Darwish, A. F.	Comparison of splinting plus local steroid injection, And splinting plus ultrasound and low-level laser therapy outcomes in idiopathic mild to moderate carpal tunnel syndrome	2014	update PICO published before 2015, captured in 2016

Authors	Article Title	Year	Reason for Exclusion
Mourad, M. A. F. E.; Kareem, H. A.	Idiopathic carpal tunnel syndrome (ICTS): Correlation between nerve conduction studies and dynamic wrist ultrasonography	2018	does not answer pico question
Sayed Mostafa, M. M.; Ali Abd El Gawad, H. A. E. M.	Role of MRI and electrophysiological studies in evaluation of nerve entrapment in upper limb osteofibrous tunnels	2016	irrelevant patient population
Wafaie, A. M.; Afifi, L. M.; Moussa, K. M.; Mansour, A. M.; Abbas, H. M.	Role of diffusion tensor imaging in carpal tunnel syndrome: A case control comparative study to electrophysiological tests and clinical assessment	2018	does not answer pico question
Al Shahrani, A. S.; Albogami, S. S.; Alabdali, A. F.; Alohali, S. K.; Almedbal, H. S.; Aldossary, G. F.	Does the use of electronic devices provoke the carpal tunnel syndrome (CTS) symptoms and functional impairment? A cross-sectional study	2019	Doesn't answer PICO question
Allam, M. F. A. B.; Ibrahim, M. A.; Allam, A. F. A. B.	The value of quantitative MRI using 1.5 T magnet in diagnosis of carpal tunnel syndrome	2017	Irrelevant comparison: already diagnosed CTS patients vs healthy controls
Emara, D. M.; El Shafei, M. M.; Naby, H. M. A.	Utility of ultrasound elastography in a cohort of patients with idiopathic carpal tunnel syndrome	2018	does not answer pico question
Chodankar, R.	Single-incision endoscopic release of the carpal tunnel using a standard (4-mm) arthroscope	2014	update PICO published before 2015, captured in 2016
Kwolek, A.; Zwolinska, J.	Immediate and long-term effects of selected physiotherapy methods in patients with carpal tunnel syndrome	2011	update PICO published before 2015, captured in 2016, no comparison group
Shazad, M. M. K.; Rizwan, M.; Ul Haq Khawaja, M. I.; Napar, A. R.; Amjad, A.	Outcome Assessment of Comparison between Surgical Decompression versus Local Corticosteroid Injection in Carpal Tunnel Syndrome	2022	Irrelevant comparison: op vs nonop CTS
Aslam, K.; Hussain, M. M.; Arif, A. B.	Prevalence of carpal tunnel syndrome in computer users working in MCB bank of Faisalabad, Pakistan	2019	does not answer pico question
Abdulmunem, S. M.; Al-Omary, H. L.	Correlation of vitamin d level with electrophysiological findings and clinical grading in carpal tunnel syndrome	2021	does not answer pico question
Awajel, M. K.; Hussin, A.; Ab-Khudhur, M.	Assessment of Carpal Tunnel Syndrome Severity by Ultrasound and Electrodiagnosis Study	2022	doesn't fit PICO 1
Cirakli, A.; Ulusoy, E. K.; Ekinci, Y.	The role of electrophysiological examination in the diagnosis of carpal tunnel syndrome: Analysis of 2516 patients	2018	No comparison group
Owolabi, L. F.; Reda, A. A.; Raafat, A.; M. Fares DM; Enwere, O. O.; Mba, U. A.; Adamu, B.; Alghamdi, M.	Nerve conduction study findings and their predictors in clinically diagnosed patients with carpal tunnel syndrome in a Saudi population	2021	Irrelevant population: already diagnosed patients with CTS
Alfonso, C.; Jann, S.; Massa, R.; Torreggiani, A.	Diagnosis, treatment and follow-up of the carpal tunnel syndrome: A review	2010	narrative review
Sarilar, A. C.; Gök, D. K.	Value of boston questionnaire in carpal tunnel syndrome	2021	irrelevant comparison
Sorgun, M. H.; Tugan Yildiz, C. B.; Sener, H. Ö	Autonomic involvement in carpal tunnel syndrome – Sympathetic skin response and skin temperature	2018	irrelevant topic

Authors	Article Title	Year	Reason for Exclusion
Baykara, M.; Koca, T. T.; Demirel, A.; Berk, E.	Magnetic resonance imaging evaluation of the median nerve using histogram analysis in carpal tunnel syndrome	2018	Doesn't answer pico question
Keramettin, A.; Cengiz, C.; Nilgun, C.; Ayhan, B.	Microsurgical open mini uniskin incision technique in the surgical treatment of carpal tunnel syndrome	2006	update PICO published before 2015, captured in 2016
Zhang, J. H.; Yuan, B.; Yan, F. L.	Application of the calculated electrophysiological parameters in early diagnosis of carpal tunnel syndrome	2020	doesn't fit PICO 1
Robertson, V. J.; Baker, K. G.	A review of therapeutic ultrasound: effectiveness studies	2001	Systematic review; bib review completed
Ashraf, M. F.; Haider, T.; Munir, S.; Khan, M. I.; Zaheen, U.; Hannan, A.	Forensic implications of carpal tunnel syndrome in relation to neurological, radiological and orthopedic assessments	2021	irrelevant comparison
Lee, S. H.; Choi, H. H.; Chang, M. C.	Effect of Ultrasound-Guided Partial Release of the Transverse Carpal Ligament with a Needle in Patients with Refractory Carpal Tunnel Syndrome	2022	No comparison group
Manchikanti, L.; Kosanovic, R.; Vanaparthi, R.; Vangala, B. P.; Soin, A.; Sachdeva, H.; Shah, S.; Knezevic, N. N.; Hirsch, J. A.	Steroid distancing in interventional pain management during COVID-19 and beyond: Safe, effective and practical approach	2020	Systematic review; not relevant
Billig, J. I.; Kotsis, S. V.; Chung, K. C.; Michigan Collaborative Hand Initiative for Quality in Surgery, Collaborators	Opioid Prescribing after Carpal Tunnel Release: Analysis from the Michigan Collaborative Hand Initiative for Quality in Surgery	2021	No outcomes of interest - authors seeking to assess rate of opioid prescribing
Burger, M.; Kriel, R.; Damon, A.; Abel, A.; Bansda, A.; Wakens, M.; Ernstzen, D.	The effectiveness of low-level laser therapy on pain, self-reported hand function, and grip strength compared to placebo or "sham" treatment for adults with carpal tunnel syndrome: A systematic review	2017	Systematic review; bib review complete
Lalonde, D. H.; Lalonde, J. F.; MacDermid, J. C.; Chung, K. C.; Gan, B. S.; Mierisch, C.; Van Demark, R. E., Jr.; Luc, M.	Time to Stop Routinely Prescribing Opiates after Carpal Tunnel Release	2022	Follow up criteria not met; f/u only 7 days
Sangram, B. S.; Mayne, A. I. W.; Jariwala, A. C.	Can we accurately predict nerve conduction study outcome using a carpal tunnel syndrome questionnaire?	2019	irrelevant comparison
Tarfusser, I.; Mariacher, M.; Berger, W.; Tarfusser, T.; Nienstedt, F.	Endoscopic Carpal Tunnel Release Without Invading the Tunnel: A New Transretinacular Technique	2021	No comparison group
Rodner, C. M.; Katarincic, J.	Open carpal tunnel release	2008	literature review
Newington, L.; Stevens, M.;	Sickness absence after carpal tunnel release: a systematic review of the literature	2018	Systematic review; bib review completed

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Warwick, D.; Adams, J.; Walker-Bone, K.			
Nileshwar, A.; Babu, K. C.; Kordcal, A. R.; Bhat, A. K.	Assessment of differential brachial plexus block using ropivacaine in intraoperative conscious patients: A randomized control trial	2020	only 14/40 cases had CTS
Siddiqui, A. A.; Rajput, M. I.; Yaqoob, U.; Moton, R. Z.; Jamil, M.; Adeel, M.	Effectiveness of mini-open incision surgical release for carpal tunnel syndrome	2020	irrelevant comparison: mild vs. moderate vs. severe CTS
Bani Ahmad, O. S.; Abu Alannaz, N. A.; Al-Smadi, R. H.; Almasafah, T. A.; Moh'd Etaiwi, M.	Effect of sodium bicarbonate addition to lignocaine during open carpal tunnel release on infiltration pain	2018	irrelevant comparison
Moghul, N. B.; Farooq, M.; Arzoo, K.; Joya, S. R.; Latif, M. S. Z.; Ilyas, N.	Hand held drilling tools and health problems of construction workers	2022	not relevant: does not answer pico question
Golriz, B.; Ahmadi Bani, M.; Arazpour, M.; Bahramzadeh, M.; Curran, S.; Madani, S. P.; Hutchins, S. W.	Comparison of the efficacy of a neutral wrist splint and a wrist splint incorporating a lumbrical unit for the treatment of patients with carpal tunnel syndrome	2016	Inappropriate comparison
Ruiz Montesino, M. D.; Mendoza Mendoza, D.	Carpal tunnel syndrome due to a tophus: Low-field magnetic resonance image	2019	case report
Nazerani, S.; Kalantar Motamedi, M. H.; Nazerani, T.; Saraii, A.; Keramati, M. R.	Endoscopic carpal tunnel release: A 5-year experience	2014	update PICO published before 2015, captured in 2016
Peris Moya, A.; Perez Marmol, J. M.; Khoury Martin, E. F.; Garcia Rios, M. C.	Ultrasound improves motor distal latency on patients with carpal tunnel syndrome: systematic review and meta-analysis	2021	systematic review; bib review complete
Pintucci, M.; Imamura, M.; Thibaut, A.; de Exel Nunes, L. M.; Mayumi Nagato, M.; Kaziyama, H. H.; Tomikawa Imamura, S.; Stecco, A.; Fregni, F.; Rizzo Battistella, L.	Evaluation of fascial manipulation in carpal tunnel syndrome: a pilot randomized clinical trial	2017	letter to the editor
Alp, N. B.; Akdag, G.; Macunluoglu, A. C.	Median nerve and carpal tunnel volume changes after two different surgical methods: A comparative magnetic resonance imaging study of mini-open and endoscopic carpal tunnel release	2019	less than 10 patients per group
El-Najjar, A. R.; Abu-Elsoaud, A. M.; Sabbah, D. A.; Zeid, A. F.	Emerging role of ultrasonography in the diagnosis of carpal tunnel syndrome: Relation to risk factors, clinical and electrodiagnostic severity	2021	irrelevant population

Authors	Article Title	Year	Reason for Exclusion
Fisse, A. L.; Katsanos, A. H.; Gold, R.; Pitarokoili, K.; Krogias, C.	Cross-sectional area reference values for peripheral nerve ultrasound in adults: a systematic review and meta-analysis-Part I: Upper extremity nerves	2021	systematic review; bib review complete
Fowler, J. R.; Chung, K. C.; Miller, L. E.	Multicenter pragmatic study of carpal tunnel release with ultrasound guidance	2022	No comparison group - all patients received CTR-US
Khan, S.; Qamar, N.; Ullah, I.	Health economic evaluation of different treatment strategies for peripheral entrapment mononeuropathies: a systematic review	2021	Systematic review; not relevant
Zhang, J.; Li, Z.; Li, Z.; Li, J.; Hu, Q.; Xu, J.; Yu, H.	Progress of Acupuncture Therapy in Diseases Based on Magnetic Resonance Image Studies: A Literature Review	2021	Systematic review; bib review completed
Kale, A.	Carpal tunnel release experience with minimal wrist incision	2017	no comparison group
Fitch, M. S.; Thiese, M. S.; Wood, E. M.; Kapellusch, J. M.; Hegmann, K. T.	The Coexistence of Carpal Tunnel Syndrome in Workers With Trigger Digit	2021	Irrelevant topic: coexistence of trigger digit and CTS
Okura, T.; Sekimoto, T.; Matsuoka, T.; Fukuda, H.; Hamada, H.; Tajima, T.; Chosa, E.	Efficacy of Diagnosing Carpal Tunnel Syndrome Using the Median Nerve Stenosis Rate Measured on Ultrasonographic Sagittal Imagery: Clinical Case-Control Study	2021	Irrelevant comparison: already diagnosed CTS patients vs healthy controls
Gonzalez-Suarez, C.; Nathleendizon, J.; Cua, R.; Cabungcal-Fidel, B.; Dones, V.; Lesniewski, P.; Thomas, J. C.	Determination of the longitudinal median nerve mobility in different neurodynamic techniques	2016	does not answer pico question
Sivapriya, K. R.; Shah, P. B.; Gopal, P.	Assessment of musculoskeletal problems among women IT professionals	2019	all participants have min 1 year of work experience. Not relevant to the pico.
Shende, V. S.; Sharma, R. D.; Pawar, S. M.; Waghmare, S. N.	A study of median nerve entrapment neuropathy at wrist in uremic patients	2015	does not answer pico question
Bhandari, D. J.; Mishra, D. G.; Parikh, S. M.; Sharma, D. B.	Computer Use and Carpal Tunnel Syndrome: A Case-control Study	2017	Case group is not entirely made of computer users/clerical & comparisons were made between CTS vs healthy controls without CTS
Wong, W. W. B.; Tang, A. K. Y.	What's in the web for family physicians – Carpal tunnel syndrome	2020	non-systematic review
Al-Musawi, A. A. H.; Jebriil, N. M. T.; Al-Auhaimid, A. A. H.; Hammoodi, Z. H. K.	Carpal tunnel syndrome and calcium deposit in surgically transacted transverse carpal ligament	2021	does not answer pico question
Widodo, S. A.; Rochman, F.; Haryadi, R. D.; Patricia Maria, K.	The diagnostic accuracy of phalen test and prayer test in carpal tunnel syndrome	2020	irrelevant comparison
Al Shahrani, E. S.; Al Shehri, N. A.	Association between smartphone use and carpal tunnel syndrome: A case-control study	2021	Irrelevant topic: smartphone usage and CTS
	Nonsurgical treatment is effective for carpal tunnel syndrome	2004	Systematic review; incomplete pdf



Authors	Article Title	Year	Reason for Exclusion
Varghese, J. G.; Venugopal, V.; Srinivasan, V.; Geetha Hari Priya, G. A.	A study on the normative values of finger flexion cascade in power grip users and non-power grip users	2020	irrelevant comparison; does not answer Pico question
Munjal, A.	Factors that predict the response to treatment in carpal tunnel syndrome	2018	does not answer pico question
Kollu, R.; Vasireddy, S.; Swamy, S.; Boraiah, N.; Ramprakash, H.; Uligada, S.; Dudekua, A.	Ultrasound assessment of carpal tunnel syndrome in comparison with nerve conduction study: A case-control study	2021	doesn't fit PICO 1
Mohtashamkia, M.; Roshanzamir, S.; Saghanzhad, S. M.	Vitamin D in treatment-resistant CTS patients with hypovitaminosis D	2018	no comparison group
Kostopoulos, D.	Treatment of carpal tunnel syndrome: A review of the non-surgical approaches with emphasis in neural mobilization	2004	update PICO published before 2015, captured in 2016
Petrover, D.; Richette, P.	Treatment of carpal tunnel syndrome : from ultrasonography to ultrasound guided carpal tunnel release	2018	not a clinical study
Dimitrova, A.; Murchison, C.; Oken, B.	Acupuncture for the Treatment of Peripheral Neuropathy: A Systematic Review and Meta-Analysis	2017	Systematic review; bib review complete
James, H. K.; Chapman, A. W.; Pattison, G. T. R.; Fisher, J. D.; Griffin, D. R.	Analysis of tools used in assessing technical skills and operative competence in trauma and orthopaedic surgical training: A systematic review	2020	Systematic review; not relevant
Badeaux, J.; Bonanno, L.; Au, H.	Effectiveness of ondansetron as an adjunct to lidocaine intravenous regional anesthesia on tourniquet pain and postoperative pain in patients undergoing elective hand surgery: a systematic review protocol	2015	systematic review protocol; not relevant
Basson, A.; Olivier, B.; Ellis, R.; Coppieters, M.; Stewart, A.; Mudzi, W.	The effectiveness of neural mobilizations in the treatment of musculoskeletal conditions: a systematic review protocol	2015	Systematic review; bib review complete (irrelevant to project)
Naghibi, H.; Soroush, H.; Faeghi, F.; Shakiba, M.; Farhoud, A. R.; Hashemi, H.	Comparison of quantitative assessment of BLADE and isotropic three-dimensional fast spin echo cube (3D T2 SPACE) sequences with conventional protocols of wrist joint at 3 tesla magnetic resonance imaging	2017	Irrelevant topic: MRI to diagnose a multitude of wrist joint diseases
Sraj, S.	Narcotic-Free, Over-the-Counter Pain Management After Wide-Awake Hand Surgery	2019	All patients receiving soft-tissue hand surgery included in study group
Ettie Rukmigarsari, R. R.; Andarini, S.; Sakti, S. P.; Eddy Santoso, M. I.	Analysis of electroneuromyography component result as the supporting diagnosis of carpal tunnel syndrome	2016	irrelevant comparison
Alharbi, A. A.; Al Hammam Sultan Yahya, M.; Almeiarfi, Z. S.; Ali, J. M.;	An overview on carpal tunnel syndrome diagnosis & surgical management approach	2020	systematic review; excluded

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Alomair, A. M.; Alsakkak, A. A.; Alturaifi, A. Y.; Alhumaidi, A. S.; Alqarni, T. A.; Binyousef, B. H.			
Karimi, N.; AbedianKenari, S.; Darvari, F.	Serum levels of inflammatory cytokines in patients with idiopathic carpal tunnel syndrome	2021	Irrelevant topic: Testing done is not pre-op; patients not undergoing surgical procedure
Chang, C. W.; Wang, Y. C.; Chang, K. F.	A practical electrophysiological guide for non-surgical and treatment of carpal tunnel syndrome	2008	update PICO published before 2015, captured in 2016, Irrelevant Comparison
Özkal, B.; Yaldiz, C.; Asil, K.; Selçuki, D.; Selçuki, M.	Preoperative and postoperative evaluation of electromyography and magnetic resonance imaging findings in carpal tunnel syndrome	2014	does not answer pico question
Arslan, H.; Yavuz, A.; Ilgen, F.; Aycan, A.; Ozgekce, M.; Akdeniz, H.; Batur, A.	The efficiency of acoustic radiation force impulse (ARFI) elastography in the diagnosis and staging of carpal tunnel syndrome	2018	no intervention of interest
Cantero-Tellez, R.; Naughton, N.; Algar, L.; Valdes, K.	Linking hand therapy outcome measures used after carpal tunnel release to the International Classification of Functioning, Disability and Health: A systematic review	2019	Systematic review; bib review completed
Celik, B.; Paker, N.; Celik, E. C.; Bugdayci, D. S.; Ones, K.; Ince, N.	The effects of orthotic intervention on nerve conduction and functional outcome in carpal tunnel syndrome: A prospective follow-up study	2015	no comparison group
Lim, Y. H.; Chee, D. Y.; Girdler, S.; Lee, H. C.	Median nerve mobilization techniques in the treatment of carpal tunnel syndrome: A systematic review	2017	Systematic review; bib review complete
Nunez de Arenas-Arroyo, S.; Cavero-Redondo, I.; Torres-Costoso, A.; Reina-Gutierrez, S.; Alvarez-Bueno, C.; Martinez-Vizcaino, V.	Short-term Effects of Neurodynamic Techniques for Treating Carpal Tunnel Syndrome: A Systematic Review With Meta-analysis	2021	systematic review; bib review complete
Cox, J.; Varatharajan, S.; Cote, P.; Optima, Collaboration	Effectiveness of Acupuncture Therapies to Manage Musculoskeletal Disorders of the Extremities: A Systematic Review	2016	Systematic review; bib review complete
Sato, K.; Murakami, K.; Mimata, Y.; Takahashi, G.; Doita, M.	Supraretinacular endoscopic carpal tunnel release: A safe alternative method for treatment of carpal tunnel syndrome	2021	No comparison group - all patients received SRECTR
Chen, I. J.; Chang, K. V.; Lou, Y. M.; Wu, W. T.; Ozcarar, L.	Can ultrasound imaging be used for the diagnosis of carpal tunnel syndrome in diabetic patients? A systemic review and network meta-analysis	2020	Systematic review; bib review complete
Maeda-Ogata, S.; Tahara, N.; Bekki, M.; Tahara, A.; Sugiyama, Y.; Honda, A.; Igata, S.; Abe, T.; Ueda, M.; Ando, Y.; Hirooka, Y.; Fukumoto, Y.	Carpal tunnel syndrome as an early red-flag sign of ATTRwt amyloidosis	2021	Case report
Stone, M. J.; Wilks, D. J.; Wade, R. G.	Hand and wrist surgery on anticoagulants and antiplatelets: A systematic review and meta-analysis	2020	systematic review; bib review complete

Authors	Article Title	Year	Reason for Exclusion
Lin, F. Y.; Wu, C. I.; Cheng, H. T.	Coincidence or complication? A systematic review of trigger digit after carpal tunnel release	2018	Systematic review; bib review completed
Davey, M. S.; Davey, M. G.; Hurley, E. T.; Cassidy, J. T.; Mullett, H.; McInerney, N. M.; Galbraith, J. G.	Platelet-rich plasma in non-operative management of mild to moderate carpal tunnel syndrome - A systematic review & meta-analysis of short-term outcomes	2021	systematic review; bib review complete
Paecharoen, S.; Wongsuphasawat, K.; Tantiyavarong, P.	Efficacy of omega-3 fatty acids in the treatment of carpal tunnel syndrome: A randomized double-blind controlled trial	2020	<10 patients in Group 1 and group 3 (9 each)
Fong, S. W.; Liu, B. W. F.; Sin, C. L.; Lee, K. S.; Wong, T. M.; Choi, K. S.; Yang, Y. P.; Lin, Y. Y.; Chien, Y.; Tarn, Y. W.; Chen, C. F.; Lin, L. T.	A systematic review of the methodology of sonographic assessment of upper limb activities-associated carpal tunnel syndrome	2021	systematic review; bib review complete
Kanchanathepsak, T.; Tawonsawatruk, T.; Suppaphol, S.; Watcharananan, I.; Tuntiyatorn, P.	Relationships between hand diseases and seven lifestyle dimensions	2018	irrelevant comparison
Sperry, B. W.; Reyes, B. A.; Ikram, A.; Donnelly, J. P.; Phelan, D.; Jaber, W. A.; Shapiro, D.; Evans, P. J.; Maschke, S.; Kilpatrick, S. E.; Tan, C. D.; Rodriguez, E. R.; Monteiro, C.; Tang, W. H. W.; Kelly, J. W.; Seitz, W. H., Jr.; Hanna, M.	Tenosynovial and Cardiac Amyloidosis in Patients Undergoing Carpal Tunnel Release	2018	all patients underwent testing for amyloidosis
Fosbol, E. L.; Rorth, R.; Leicht, B. P.; Schou, M.; Maurer, M. S.; Kristensen, S. L.; Kober, L.; Gustafsson, F.	Association of Carpal Tunnel Syndrome With Amyloidosis, Heart Failure, and Adverse Cardiovascular Outcomes	2019	Irrelevant comparison: CTS vs healthy controls
Hashmi, P. M.; Rashid, R. H.; Ali, M.; Mohib, Y.; Baloch, N.	Two incision mini open carpal tunnel release- a minimally invasive alternative to endoscopic release	2016	no comparison group of interest for PICO
Tountas, C. P.; MacDonald, C. J.; Meyerhoff, J. D.; Bihrl, D. M.	Carpal tunnel syndrome. A review of 507 patients	1983	no comparison group
Al-Ardhi, G. H.; Al-Maamory, A. M.; Abd-Alameer, A. M.	Estimation of vitamin d levels in women with carpal tunnel syndrome (With and without diabetes)	2020	does not answer pico question
Kazmi, S. A. R.; Haider, S. A.; Iqbal, A.	Mean decrease in distal motor latency after treated with local steroid injection in symptomatic patients of carpal tunnel syndrome	2016	no comparison group

Authors	Article Title	Year	Reason for Exclusion
Ren, Y. M.; Wang, X. S.; Wei, Z. J.; Fan, B. Y.; Lin, W.; Zhou, X. H.; Feng, S. Q.	Efficacy, safety, and cost of surgical versus nonsurgical treatment for carpal tunnel syndrome: A systematic review and meta-analysis	2016	Systematic review; bib review complete
Anonymous,	Efficacy, safety, and cost of surgical versus nonsurgical treatment for carpal tunnel syndrome: A systematic review and meta-analysis: Retraction	2017	Systematic review; bib review complete
Alemdar, M.; Selek, Ö	Median nerve distal sensory onset latency measurement on the electrodiagnosis of carpal tunnel syndrome	2016	no reference test; irrelevant comparison
El-Shintenawy, A. A.; Kassem, E. M.; El-Saadany, H. M.; Alashkar, D. S.	Diagnostic potential of high resolution ultrasound and nerve conduction study in patients with idiopathic carpal tunnel syndrome	2019	does not answer pico question
Shahrokh, H. D.; Kashipazha, D.; Rahim, F.; Cina, M.; Eslami-Moayed, M.; Alboshokeh, S. A.; Eslami-Moayed, M.; Forouzan, A.	Diagnostic accuracy of ultrasound findings in patients with carpal tunnel syndrome	2015	Irrelevant population; subjects have already been diagnosed with CTS.
Emad, M.; Jahani, N.; Azadeh, A.; Bemana, G.	Is the difference between median sensory and ulnar motor latencies better than combined sensory index in carpal tunnel syndrome diagnosis?	2016	irrelevant comparison
Trillos, M. C.; Soto, F.; Briceno-Ayala, L.	Upper limb neurodynamic test 1 in patients with clinical diagnosis of carpal tunnel syndrome: A diagnostic accuracy study	2018	irrelevant population
Kodama, M.; Tochikura, M.; Shimoda, N.; Fujii, C.; Fujiwara, T.; Masakado, Y.	Premotor Potential Study for Diagnosis of Carpal Tunnel Syndrome	2016	no reference test; irrelevant comparison
Zhang, P.; Li, J.; Huang, W.; Kuang, S.; Jiang, B.; Wang, T.	Neural electrophysiological examination in the diagnosis and treatment of CTS	2016	irrelevant population
Cevik, B.; Kurt, S.; Aksoy, D.; Solmaz, V.	Sympathetic Skin Response and Boston Questionnaire in Carpal Tunnel Syndrome	2016	irrelevant comparison
Bin-Jalilah, I. M.; Shariff, M.; Nayar, P. S.; Chandramoorthy, H. C.	Elevated basal cytosolic calcium of endothelial cells influences the post-surgical outcome in diabetic CTS	2016	no outcomes of interest
Muhammed Fazil, V. V.; Surendran, S.; Karuppall, R.; Gopinathan, P.; Marthya, A.	Mini-open transverse flexor crease incision versus limited longitudinal palmar incision carpal tunnel release: A short term outcome study	2022	irrelevant comparison
Yildirim, A.; Bulut, H. T.; Ekmekci, B.; Surucu, G. D.; Karabiber, M.	Use of diffusion tensor imaging for nonsurgical treatments of carpal tunnel syndrome	2014	update PICO published before 2015, captured in 2016, no comparison group
Chen, Y. T.; Williams, L.; Zak, M. J.; Fredericson, M.	Review of Ultrasonography in the Diagnosis of Carpal Tunnel Syndrome and a Proposed Scanning Protocol	2016	Review article
Joseph, A. E.; Leiby, B. M.; Beckman, J. P.	Clinical Results of Ultrasound-Guided Carpal Tunnel Release Performed by a Primary Care Sports Medicine Physician	2020	irrelevant comparison

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Ng, A. W. H.; Griffith, J. F.; Tong, C. S. L.; Law, E. K. C.; Tse, W. L.; Wong, C. W. Y.; Ho, P. C.	MRI criteria for diagnosis and predicting severity of carpal tunnel syndrome	2020	irrelevant population
Alcan, V.; Kaya, H.; Zinnuroglu, M.; Karatas, G. K.; Canal, M. R.	A novel approach to the diagnostic assessment of carpal tunnel syndrome based on the frequency domain of the compound muscle action potential	2020	irrelevant comparison
Hulkkonen, S.; Shiri, R.; Auvinen, J.; Miettunen, J.; Karppinen, J.; Ryhanen, J.	Risk factors of hospitalization for carpal tunnel syndrome among the general working population	2020	irrelevant exposure
Khan, M. W. A.; Zeeshan, H. M.	12.Diagnostic Accuracy of Ultrasonography (USG) in Diagnosing Carpal Tunnel Syndrome (CTS) Taking Nerve Conduction Studies (NCS) as Gold Standard	2021	very low quality
Saravi, M. S.; Kariminasab, M. H.; Bari, M.; Ghaffari, S.; Razavipour, M.; Daneshpoor, S. M.; Yazdi, M. V.; Davoudi, M. M.; Azar, M. S.	A Comparison of Hand Pain and Hand Function after Z-plasty Reconstruction of the Transverse Carpal Ligament with Traditional Median Neurolysis in Carpal Tunnel Syndrome	2016	irrelevant comparison
Ayhan, E.; Akaslan, F.	Patients' Perspective on Carpal Tunnel Release with WALANT or Intravenous Regional Anesthesia	2020	Follow up criteria not met; f/u only 2 hours postop
Ezzati, K.; Laakso, E. L.; Saberi, A.; Yousefzadeh Chabok, S.; Nasiri, E.; Bakhshayesh Eghbali, B.	A comparative study of the dose-dependent effects of low level and high intensity photobiomodulation (laser) therapy on pain and electrophysiological parameters in patients with carpal tunnel syndrome	2020	Follow up criteria not met; f/u only 3 weeks
Park, J. S.; Won, H. C.; Oh, J. Y.; Kim, D. H.; Hwang, S. C.; Yoo, J. I.	Value of cross-sectional area of median nerve by MRI in carpal tunnel syndrome	2020	Irrelevant comparison: already diagnosed CTS patients vs healthy controls
Movilia, P.; Restelli, L.; Miriano, F.; Vaiani, G.; Grossi, E.	Analgesic activity of nabumetone in postoperative pain	1990	intra-op medication
Mathew, A.; John, T.	A clinical and neurophysiological analysis of idiopathic carpal tunnel syndrome with respect to gender and occupation	2021	irrelevant exposure
Bozkurt, M.; Tatar, B. E.; Karakol, P.; Sezgiç, M.; Uslu, C.; Solak, H. T.; Gelbal, C.	Matriderm and platelet-rich plasma combination in the treatment of recurrent carpal tunnel syndrome: a new approach	2021	op vs. non-op
Ali, J.; Borah, D.; Laisram, N.; Kothari, S. Y.; Chethan, C.	Comprehensive evaluation of effect of low dose local steroid injection in carpal tunnel syndrome	2020	no comparison group
Tunc, A.; Gungen, B. D.	Carpal tunnel syndrome: Investigating the sensitivity of initial-diagnosis with electro-diagnostic tests in 600 cases and associated risk factors especially manual milking	2017	Irrelevant topic; demographic focus on manual milking

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Eslamian, F.; Eftekharsadat, B.; Babaei-Ghazani, A.; Jahanjoo, F.; Zeinali, M.	A Randomized Prospective Comparison of Ultrasound-Guided and Landmark-Guided Steroid Injections for Carpal Tunnel Syndrome	2017	No comparison/control group; same intervention type
Tezcan, S.; Ulu Ozturk, F.; Uslu, N.; Nalbant, M.; Umit Yemisci, O.	Carpal Tunnel Syndrome: Evaluation of the Effects of Low-Level Laser Therapy With Ultrasound Strain Imaging	2019	Follow up criteria not met; f/u only 3 weeks
El-Habashy, H. R.; El- Hadidy, R. A.; Ahmed, S. M.; Sayed, B. B. E.; Ahmed, A. S.	Correlation between median nerve conduction studies and ultrasonography in cases of carpal tunnel syndrome	2016	irrelevant population
Ozturk, O.; Bilge, A.; Tezcan, A. H.; Tezcan, H. Y. A. H.; Ulusoy, G. R.; Gezgin, I.; Dost, B.	Comparison of ultrasound and electrical neurostimulation guidance in axillary brachial plexus block	2016	local v. local
Abdel Kader, A. A.; Basheer, M. A.; Maher, E. A.; Elkholy, S. H.	Carpal tunnel syndrome among other referral diagnoses in the egyptian clinical neurophysiology unit	2015	irrelevant comparison
Meshkini, M.; Fateh, H. R.; Rahimi- Dehgolan, S.; Azadvari, M.; Faezi, S. T.	Comparison Between Distal and Proximal Approaches for Local Corticosteroid Injection in Carpal Tunnel Syndrome Management: A Randomized Controlled Trial	2021	irrelevant comparison: comparing distal vs. proximal approach of steroid injection
Mezian, K.; Sobotova, K.; Kuliha, M.; Chang, K. V.; Cee, J.; Angerova, Y.; Ozcakar, L.	Ultrasound-guided perineural vs. peritendinous corticosteroid injections in carpal tunnel syndrome: a randomized controlled trial	2021	irrelevant comparison
Jorgsholm, P.; Flondell, M.; Bjorkman, A.; Thomsen, N. O. B.	Outcome of carpal tunnel release in patients with normal nerve conduction studies	2021	irrelevant comparison
Prejbeanu, R.; Vermesan, D.; Crainiceanu, Z.; Nitescu, S.; Lazureanu, V.; Florescu, S.; Balanescu, A.; Inchingolo, F.; Ballini, A.; Cagiano, R.; Caprio, M.; Potenza, M. A.; Abbinante, A.; Dipalma, G.; Haragus, H.	Carpal tunnel release: transverse or longitudinal limited-incisions?	2015	Irrelevant comparison; both interventions are CTS release surgery
Alsaeid, M. A.	Dexamethasone versus Hyaluronidase as an Adjuvant to Local Anesthetics in the Ultrasound-guided Hydrodissection of the Median Nerve for the Treatment of Carpal Tunnel Syndrome Patients	2019	Irrelevant comparison; both modes of intervention are local anesthesia
Jeffrey, S. L. A.; Belcher, H. J. C. R.	Use of Arnica to relieve pain after carpal-tunnel release surgery	2002	Follow-up less than a month

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Müfit Orak, M.; Gümüştas, S. A.; Onay, T.; Uludag, S.; Bulut, G.; Türk Börü, Ü	Comparison of postoperative pain after open and endoscopic carpal tunnel release	2016	Follow-up less than three months
Riasi, H.; Rajabpour Sanati, A.; Salehi, F.; Salehian, H.; Ghaemi, K.	Analyzing the therapeutic effects of short wrist splint in patients with carpal tunnel syndrome (CTS) under ibuprofen treatment from an EMG-NCV perspective	2015	no outcomes of interest
Setayesh, M.; Sadeghifar, A. R.; Nakhaee, N.; Kamalnejad, M.; Rezaeizadeh, H.	A Topical Gel From Flax Seed Oil Compared With Hand Splint in Carpal Tunnel Syndrome: A Randomized Clinical Trial	2017	Inappropriate follow-up time
Mohammadi, S.; Roostayi, M. M.; Naimi, S. S.; Baghban, A. A.	The effects of cupping therapy as a new approach in the physiotherapeutic management of carpal tunnel syndrome	2019	Follow up criteria not met; f/u approx 20 days
Rivas-Suarez, S. R.; Aguila-Vazquez, J.; Suarez-Rodriguez, B.; Vazquez-Leon, L.; Casanova-Giral, M.; Morales-Morales, R.; Rodriguez-Martin, B. C.	Exploring the Effectiveness of External Use of Bach Flower Remedies on Carpal Tunnel Syndrome: A Pilot Study	2017	Inappropriate follow-up time
Vahdatpour, B.; Haghighat, S.; Azimi, Z.; Ramezani, H.	Carpal tunnel syndrome treatment using ultrasound-guided versus landmark-guided corticosteroid injection: A randomized prospective trial	2019	irrelevant comparison; same injection drug different methods of injection
Omar, G.; Ali, F.; Ragae, A.; Darwiesh, A.	Ultrasound-guided injection of carpal tunnel syndrome: A comparative study to blind injection	2018	irrelevant comparison; same injection drug different methods of injection
Chen, P. C.; Wang, L. Y.; Pong, Y. P.; Hsin, Y. J.; Liaw, M. Y.; Chiang, C. W.	Effectiveness of ultrasound-guided vs direct approach corticosteroid injections for carpal tunnel syndrome: A double-blind randomized controlled trial	2018	Irrelevant comparison: ultrasound injection vs. blind injection
Babaei-Ghazani, A.; Nikbakht, N.; Forogh, B.; Raissi, G. R.; Ahadi, T.; Ebadi, S.; Roomizadeh, P.; Fadavi, H. R.; Raeissadat, S. A.; Eftekharsadat, B.	Comparison Between Effectiveness of Ultrasound-Guided Corticosteroid Injection Above Versus Below the Median Nerve in Mild to Moderate Carpal Tunnel Syndrome: A Randomized Controlled Trial	2018	Irrelevant comparison: steroid injection above vs. below median nerve
Sahoo, J. K.; Joshi, A. G.	Study of effect of various treatments in clinically diagnosed patients of carpal tunnel syndrome	2020	no outcomes of interest
Ratasvuori, M.; Sormaala, M.; Kinnunen, A.; Lindfors, N.	Ultrasonography for the diagnosis of carpal tunnel syndrome: correlation of clinical symptoms, cross-sectional areas and electroneuromyography	2022	US vs. Clinical, Neurophysiological vs. Clinical
Nourbakhsh, M. R.; Bell, T. J.; Martin, J. B.; Arab, A. M.	The Effects of Oscillatory Biofield Therapy on Pain and Functional Limitations Associated with Carpal Tunnel Syndrome: Randomized, Placebo-Controlled, Double-Blind Study	2016	Inappropriate follow-up time (2-week study period)

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Karahmet, O. Z.; Gurcay, E.; Kara, M.; Serce, A.; Kirac Unal, Z.; Cakci, A.	Comparing the effectiveness of ultrasound-guided versus blind steroid injection in the treatment of severe carpal tunnel syndrome	2017	Irrelevant comparison: steroid inj. vs steroid inj. Comparison is placement
Ordahan, B.; Karahan, A. Y.	Efficacy of paraffin wax bath for carpal tunnel syndrome: a randomized comparative study	2017	Follow up criteria not met; f/u only 3 weeks
Gamil, A. M.; Shalaby, M. H.; Shehata, K. A.; El Deeb, A. M.	Value of Grayscale and Power Doppler High-Resolution Ultrasound in Assessment of Patients with Clinically Suspected Carpal Tunnel Syndrome	2020	Irrelevant comparison: suspected CTS patients vs healthy controls
Tiftikci, U.; Serbest, S.	Is epineurectomy necessary in the surgical management of carpal tunnel syndrome?	2017	irrelevant patient reported outcomes
Rojo-Manaute, J. M.; Capa-Grasa, A.; Chana-Rodriguez, F.; Perez-Mananes, R.; Rodriguez-Maruri, G.; Sanz-Ruiz, P.; Munoz-Ledesma, J.; Aburto-Bernardo, M.; Esparragoza-Cabrera, L.; Cerro-Gutierrez, M. D.; Vaquero-Martin, J.	Ultra-Minimally Invasive Ultrasound-Guided Carpal Tunnel Release: A Randomized Clinical Trial	2016	Irrelevant comparison; both interventions are open CTS release surgery
Saba, E. K.	Median versus ulnar medial thenar motor recording in diagnosis of carpal tunnel syndrome	2015	Irrelevant population: CTS vs non-CTS patients included in testing
Rahardjo, J. E.; Hamdan, M.; Basuki, M.; Fidiana; Fadil; Susetyo, H. B.	Correlation between duration of work and hand position using computer with carpal tunnel syndrome(Cts) at the registration administration officer in dr. soetomo general hospital surabaya	2020	irrelevant comparison; no control group
Ghajarzadeh, M.; Dadgostar, M.; Sarraf, P.; Emami-Razavi, S. Z.; Miri, S.; Malek, M.	Application of ultrasound elastography for determining carpal tunnel syndrome severity	2015	Patients already diagnosed with CTS
Zis, P.; Zis, V.; Xirou, S.; Kemanetzoglou, E.; Zambelis, T.; Karandreas, N.	Rapid Screening for Carpal Tunnel Syndrome: A Novel Method and Comparison With Established Others	2015	irrelevant comparison; all EMG, different measurement areas
Rodrigues, T.; Winckler, P. B.; Felix-Torres, V.; Schestatsky, P.	Simultaneous Median-Radial Nerve Electrical Stimulation Revisited: An Accurate Approach to Carpal Tunnel Syndrome Diagnosis and Severity	2016	Does not have relevant outcomes (TP, TN, FP, FN, specificity and sensitivity.)
Eikrem, M.; Brannsten, H.; Bjørkøy, D.; Lian, T.; Madsen, J. E.; Figved, W.	Volar Locking Plate Versus Dorsal Locking Nail-Plate Fixation for Dorsally Displaced Unstable Extra-Articular Distal Radial Fractures: Functional and Radiographic Results from a Randomized Controlled Trial	2021	doesn't answer pico question
Vo, N. Q.; Nguyen, D. D.; Hoang, N. T.; Ngo, D. H. A.; Nguyen, T. H. D.; Trong, B. L.; Le, N. T. N.; Thanh, T. N.	Magnetic resonance imaging as a first-choice imaging modality in carpal tunnel syndrome: new evidence	2022	Irrelevant population: 24 already diagnosed CTS patients vs. 6 healthy controls
Soylu, B.; Gülcen, B.; Yanik, B.	RADIOANATOMICAL OVERVIEW OF CARPAL TUNNEL SYNDROME	2022	included already diagnosed CTS cases



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Wiacek, R.; Pielka, S.; Rutowski, R.; Gosk, J.; Skiba, K.; Reichert, P.	Evaluation of the dynamics of hand strength improvement following surgical treatment of carpal tunnel syndrome	2007	no comparison group
Aimo, A.; Merlo, M.; Porcari, A.; Georgiopoulos, G.; Pagura, L.; Vergaro, G.; Sinagra, G.; Emdin, M.; Rapezzi, C.	Redefining the epidemiology of cardiac amyloidosis. A systematic review and meta-analysis of screening studies	2022	Irrelevant topic: epidemiology of cardiac amyloidosis
Ladefoged, B.; Clemmensen, T.; Dybro, A.; Hartig-Andreasen, C.; Kirkeby, L.; Gormsen, L. C.; Bomholt, P.; Gillmore, J.; Poulsen, S. H.	Identification of wild-type transthyretin cardiac amyloidosis in patients with carpal tunnel syndrome surgery (CACTuS)	2022	Irrelevant comparison: the comparison group was also tested for amyloidosis
Alhindi, A. K.; Ghaddaf, A. A.; Alomari, M. S.; Alsharaf, J. F.; Alzahrani, S. A.; Alshehri, M. S.; Sulimani, H.	Effect of ultrasound-guided versus landmark-guided local corticosteroid injection for carpal tunnel syndrome: a systematic review and meta-analysis	2022	systematic review: irrelevant comparison
Chan, J. P.; London, D. A.; Franko, O.	Patient Likelihood to Repeat Surgery After Highly "Successful" Hand Procedures	2022	No comparison group - all patients received open CTS release
Dhanapalaratnam, R.; Issar, T.; Poynten, A. M.; Milner, K. L.; Kwai, N. C. G.; Krishnan, A. V.	Diagnostic accuracy of nerve ultrasonography for the detection of peripheral neuropathy in type 2 diabetes	2022	Irrelevant population: patients with t2d, not necessarily cts
Spencer, C.; Runge, W.; Hurt, J.; Dawes, A.; Toston, R.; Wagner, E. R.; Gottschalk, M. B.	Predictive Factors Associated with the Need for Simultaneous Carpal Tunnel and Ulnar Nerve at the Elbow Releases	2022	Irrelevant comparison: CTS release vs. CTS release + ulnar nerve release
Huisstede, B. M.; Randsdorp, M. S.; Coert, J. H.; Glerum, S.; van Middelkoop, M.; Koes, B. W.	Carpal Tunnel Syndrome. Part II: Effectiveness of Surgical Treatments-A Systematic Review	2010	systematic review, bib review complete
Mirzaasgari, Z.; Haghi-Ashtiani, B.; Refaiean, F.; Vahedifard, F.; Homayooni, A. S.; Sobhkhiz, M.	Diagnostic value of high-frequency ultrasound in carpal tunnel syndrome during pregnancy: A case-control study	2021	Irrelevant Population: CTS previously diagnosed
McCallum, L. M.; Damms, N. A.; Sarrigiannis, P. G.; Zis, P.	Anxiety and depression in patients with suspected carpal tunnel syndrome – A case controlled study	2019	Irrelevant Topic: Anxiety and Depression
Aybar, A.; Çetin, M. Ü.; Polat, A.; Kurtan, A.; May, C.; Acar, N.	The Validity of Electromyography and Patient Evaluation Measurement in Evaluating Late-term	2022	irrelevant comparison

Authors	Article Title	Year	Reason for Exclusion
	Satisfaction Level of Patients Undergone Carpal Tunnel Syndrome Decompression Surgery		
Lech, L.; Loucas, R.; Leitsch, S.; Vater, A.; Mayer, J. M.; Giunta, R.; Holzbach, T.	Is there a need for postoperative monitoring after open carpal tunnel release under WALANT?	2022	Irrelevant comparison: immediate discharge vs. postop monitoring period
Hanson, M.; Charmer, B.; Pinedo, J.; Paterson, A.	Carpal tunnel syndrome: identification and management	2021	narrative review
Billig, J. I.; Kotsis, S. V.; Ouyang, Z.; Wang, L.; Chung, K. C.; M. Chiqs Collaborators	A Quality Collaborative Study of the Concordance of Electrodiagnostic Scores and Clinical Severity in Carpal Tunnel Syndrome	2022	no comparison diagnostic test
Erfanifam, T.; Anaraki, P. H.; Vahedi, L.; Nourmohammadi, J.; Emami, B.; Khameneh, A.	The outcomes of carpal tunnel decompression based on electro-diagnostic approaches and clinical symptoms in patients suffering from carpal tunnel syndrome (CTS)	2022	irrelevant comparison
Dalberg, R.; Mikola, E.; Mercer, D.; Moneim, M. S.	Simultaneous Limited Incision Carpal Tunnel Release and Flexor Digitorum Superficialis Opponensplasty Using a Transverse Carpal Ligament Pulley: Surgical Technique and Case Series	2022	No data; literature review
Nunez de Arenas-Arroyo, S.; Caverro-Redondo, I.; Torres-Costoso, A.; Reina-Gutierrez, S.; Guzman-Pavon, M. J.; Martinez-Vizcaino, V.	Accuracy of the Most Common Provocation Tests for Diagnosing Carpal Tunnel Syndrome: A Systematic Review With Meta-analysis	2022	systematic review; irrelevant diagnostic tests
Helm, R. H.; Vaziri, S.	Evaluation of carpal tunnel release using the Knifelight® instrument	2003	irrelevant comparison
Pratelli, E.; Pintucci, M.; Cultrera, P.; Baldini, E.; Stecco, A.; Petrocelli, A.; Pasquetti, P.	Conservative treatment of carpal tunnel syndrome: Comparison between laser therapy and fascial manipulation®	2015	duplicate of AAOS ID 18238 and 2765: already extracted
Rojcharoenngam, P.	Minimal Invasive Surgery by Wongsiri Technique versus Standard Open Carpal Tunnel Release: A Randomized Trial	2022	follow up period 1 month, not enough for surgical treatment
Kaltenborn, A.; Frey-Wille, S.; Hoffmann, S.; Wille, J.; Schulze, C.; Settje, A.; Vogt, P. M.; Gutcke, A.; Ruettermann, M.	The Risk of Complications after Carpal Tunnel Release in Patients Taking Acetylsalicylic Acid as Platelet Inhibition: A Multicenter Propensity Score-Matched Study	2020	duplicate of 8597
Buch-Jaeger, N.; Foucher, G.	Correlation of clinical signs with nerve conduction tests in the diagnosis of carpal tunnel syndrome	1994	update PICO published before 2015, captured in 2016
Hanssen, A. D.; Amadio, P. C.; DeSilva, S. P.; Ilstrup, D. M.	Deep postoperative wound infection after carpal tunnel release	1989	update PICO published before 2015, captured in 2016
DeStefano, F.; Nordstrom, D. L.; Vierkant, R. A.	Long-term symptom outcomes of carpal tunnel syndrome and its treatment	1997	update PICO published before 2015, captured in 2016

Authors	Article Title	Year	Reason for Exclusion
Civi Karaaslan, T.; Berkoz, O.; Tarakci, E.	The effect of mirror therapy after carpal tunnel syndrome surgery: A randomised controlled study	2020	Intervention not relevant to PICO question
Alves Mde, P.; de Araújo, G. C.	Low-Level Laser Therapy After Carpal Tunnel Release	2011	Intervention not relevant to PICO question

## **AAOS Approval Bodies**

### **Committee on Evidence Based Quality and Value**

The Committee on Evidence Based Quality and Value (EBQV) consists of nineteen AAOS members who implement evidence-based quality initiatives such as clinical practice guidelines (CPGs), systematic literature reviews (SRs) and appropriate use criteria (AUCs). They also oversee the dissemination of related educational materials and promote the utilization of orthopaedic value products by the Academy's leadership and its members.

### **Research and Quality Council**

The Research and Quality Council promotes ethically and scientifically sound clinical and translational research to sustain patient care in musculoskeletal disorders. The Council also serves as the primary resource for educating its members, the public, and public policy makers regarding evidenced-based medical practice, orthopaedic devices and biologics, regulatory pathways and standards development, patient safety, and other related important research and quality areas. The Council is comprised of the chairs of the committees on Devices, Biologics, and Technology, Patient Safety, Research Development, U.S. and chair and section leaders of the Evidence Based Quality and Value committee. Also, on the Council are the second vice-president, three members at large, and representatives of the Diversity Advisory Board, Women's Health Issues Advisory Board, Board of Specialty Societies (BOS), Board of Councilors (BOC), Communications Cabinet, Orthopaedic Research Society (ORS), Orthopedic Research and Education Foundation (OREF).

### **Board of Directors**

The 18-member Board of Directors manage the affairs of the AAOS, set policy, and oversee the Strategic Plan

## **Review Organizations**

Review of the clinical practice guideline is completed by interested external organizations. The AAOS solicits reviewers for each clinical practice guideline. They consist of experts in the topic area and represent professional societies other than AAOS. Review organizations are nominated by the clinical practice guideline development group at the introductory meeting. Review responses are available on [www.aaos.org/quality](http://www.aaos.org/quality).

Participation in the AAOS systematic literature review peer review process does not constitute an endorsement, nor does it imply that the reviewer supports this document.

## **Letters of Endorsement from External Organizations**

**From:** [Sarah Boardman](#)  
**To:** [Krause, Barbara](#)  
**Subject:** RE: External Endorsement Request - AAOS Clinical Practice Guideline for the Management of Carpal Tunnel Syndrome  
**Date:** Wednesday, May 29, 2024 6:57:15 PM

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**Caution - External**

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Kaitlyn S. Sevarino, MBA, CAE  
Director  
Department of Clinical Quality and Value

Dear Ms. Sevarino,

The AAHS has voted to endorse the AAOS Clinical Practice Guideline for the Management of Carpal Tunnel Syndrome. This endorsement implies permission for the AAOS to officially list our organization as an endorser of this clinical practice guideline and reprint our logo in the introductory section of the clinical practice guideline review document.

Sincerely,

Sarah

Sarah Boardman  
Executive Director  
American Association for Hand Surgery (AAHS)  
500 Cummings Center, Ste 4400  
Beverly, MA 01915 USA Direct:  
978.299.4514  
[handsurgery.org](http://handsurgery.org)

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