

Supplementary material

Additional File 1

PRISMA 2020 Checklist

Additional File 2

Search strategy in scientific databases

Additional File 3

Excluded references

Additional File 1



PRISMA 2020 Checklist

Section and Topic	Item #	Checklist item	Location where item is reported
TITLE			
Title	1	Identify the report as a systematic review.	Page 1, Line 1 and 2
ABSTRACT			
Abstract	2	See the PRISMA 2020 for Abstracts checklist.	Page 1 and 2, Line 3-26
INTRODUCTION			
Rationale	3	Describe the rationale for the review in the context of existing knowledge.	Page 4, Line 78-88
Objectives	4	Provide an explicit statement of the objective(s) or question(s) the review addresses.	Page 4, Line 86-88
METHODS			
Eligibility criteria	5	Specify the inclusion and exclusion criteria for the review and how studies were grouped for the syntheses.	Page 5 and 6, Line 112-122
Information sources	6	Specify all databases, registers, websites, organisations, reference lists and other sources searched or consulted to identify studies. Specify the date when each source was last searched or consulted.	Page 5, Line 96-100, Additional File 2 and 3
Search strategy	7	Present the full search strategies for all databases, registers and websites, including any filters and limits used.	Page 5, Line 96-103
Selection process	8	Specify the methods used to decide whether a study met the inclusion criteria of the review, including how many reviewers screened each record and each report retrieved, whether they worked independently, and if applicable, details of automation tools used in the process.	Page 5, Line 103-111
Data collection process	9	Specify the methods used to collect data from reports, including how many reviewers collected data from each report, whether they worked independently, any processes for obtaining or confirming data from study investigators, and if applicable, details of automation tools used in the process.	Page 5, Line 103-111
Data items	10a	List and define all outcomes for which data were sought. Specify whether all results that were compatible with each outcome domain in each study were sought (e.g. for all measures, time points, analyses), and if not, the methods used to decide which results to collect.	Page 6, Line 123-129. Table 1 and 2
	10b	List and define all other variables for which data were sought (e.g. participant and intervention characteristics, funding sources). Describe any assumptions made about any missing or unclear information.	Page 6, Line 123-129. Table 1
Study risk of bias assessment	11	Specify the methods used to assess risk of bias in the included studies, including details of the tool(s) used, how many reviewers assessed each study and whether they worked independently, and if applicable, details of automation tools used in the process.	Page 10, Line 223-230
Effect measures	12	Specify for each outcome the effect measure(s) (e.g. risk ratio, mean difference) used in the synthesis or presentation of results.	Page 10-13, Line 231-292,

Additional File 1



PRISMA 2020 Checklist

Section and Topic	Item #	Checklist item	Location where item is reported
			Table 2
Synthesis methods	13a	Describe the processes used to decide which studies were eligible for each synthesis (e.g. tabulating the study intervention characteristics and comparing against the planned groups for each synthesis (item #5)).	Page 10-13, Line 231-292, Table 2
	13b	Describe any methods required to prepare the data for presentation or synthesis, such as handling of missing summary statistics, or data conversions.	Page 7, Line 146-151
	13c	Describe any methods used to tabulate or visually display results of individual studies and syntheses.	Table 1 and 2, Figure 2a, b
	13d	Describe any methods used to synthesize results and provide a rationale for the choice(s). If meta-analysis was performed, describe the model(s), method(s) to identify the presence and extent of statistical heterogeneity, and software package(s) used.	Page 7, Line 146-151
	13e	Describe any methods used to explore possible causes of heterogeneity among study results (e.g. subgroup analysis, meta-regression).	Not available
	13f	Describe any sensitivity analyses conducted to assess robustness of the synthesized results.	Not available
Reporting bias assessment	14	Describe any methods used to assess risk of bias due to missing results in a synthesis (arising from reporting biases).	Not available
Certainty assessment	15	Describe any methods used to assess certainty (or confidence) in the body of evidence for an outcome.	Not available
RESULTS			
Study selection	16a	Describe the results of the search and selection process, from the number of records identified in the search to the number of studies included in the review, ideally using a flow diagram.	Page 7, Line 152-159, Figure 1
	16b	Cite studies that might appear to meet the inclusion criteria, but which were excluded, and explain why they were excluded.	Page 7, Line 152-159, Figure 1, Additional File 3
Study characteristics	17	Cite each included study and present its characteristics.	Page 7, Line 156-157, Figure 1, Table 1
Risk of bias in studies	18	Present assessments of risk of bias for each included study.	Page 10, Line 223-230, Figure 2a, b
Results of individual studies	19	For all outcomes, present, for each study: (a) summary statistics for each group (where appropriate) and (b) an effect estimate and its precision (e.g. confidence/credible interval), ideally using structured tables or plots.	Table 2
Results of	20a	For each synthesis, briefly summarise the characteristics and risk of bias among contributing studies.	Table 2,

Additional File 1



PRISMA 2020 Checklist

Section and Topic	Item #	Checklist item	Location where item is reported
syntheses			Figure 2a, b
	20b	Present results of all statistical syntheses conducted. If meta-analysis was done, present for each the summary estimate and its precision (e.g. confidence/credible interval) and measures of statistical heterogeneity. If comparing groups, describe the direction of the effect.	Page 10-13, Line 231-293, Table 2
	20c	Present results of all investigations of possible causes of heterogeneity among study results.	Not available
	20d	Present results of all sensitivity analyses conducted to assess the robustness of the synthesized results.	Not available
Reporting biases	21	Present assessments of risk of bias due to missing results (arising from reporting biases) for each synthesis assessed.	Not available
Certainty of evidence	22	Present assessments of certainty (or confidence) in the body of evidence for each outcome assessed.	Not available
DISCUSSION			
Discussion	23a	Provide a general interpretation of the results in the context of other evidence.	Page 13-18, Line 296-405
	23b	Discuss any limitations of the evidence included in the review.	Page 18 and 19, Line 406-418
	23c	Discuss any limitations of the review processes used.	Page 18 and 19, Line 406-418
	23d	Discuss implications of the results for practice, policy, and future research.	Page 19, Line 419-428
OTHER INFORMATION			
Registration and protocol	24a	Provide registration information for the review, including register name and registration number, or state that the review was not registered.	Page 2, Line 27
	24b	Indicate where the review protocol can be accessed, or state that a protocol was not prepared.	Page 4 and 5, Line 90-94
	24c	Describe and explain any amendments to information provided at registration or in the protocol.	Not available
Support	25	Describe sources of financial or non-financial support for the review, and the role of the funders or sponsors in the review.	Page 21, Line 458-460
Competing interests	26	Declare any competing interests of review authors.	Page 20 and 21, Line 456 and 457
Availability of data, code and other materials	27	Report which of the following are publicly available and where they can be found: template data collection forms; data extracted from included studies; data used for all analyses; analytic code; any other materials used in the review.	Page 20 and 21, Line 453-455

Additional File 1



PRISMA 2020 Checklist

From: Page MJ, McKenzie JE, Bossuyt PM, Boutron I, Hoffmann TC, Mulrow CD, et al. The PRISMA 2020 statement: an updated guideline for reporting systematic reviews. BMJ 2021;372:n71. doi: 10.1136/bmj.n71.
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Additional File 2

Search strategy in scientific databases

Effectiveness of physical therapy interventions for coccydynia: a systematic review with a narrative synthesis

("Coccydynia" OR "Coccygodynia" OR (("coccyx" OR "coccyx") AND ("pain" OR "pain")) OR (("coccyx" OR "coccyx" OR "tailbone") AND ("pain" OR "pain"))) AND ("physical therapy modalities" OR ("physical" AND "therapy" AND "modalities") OR "physical therapy modalities" OR "physiotherapies" OR "physiotherapy" OR "relaxation techniques" OR ("massage" OR "massage" OR "massages" OR "massaged" OR "massager" OR "massagers" OR "massaging") OR "Manual therapy" OR ("manipulability" OR "manipulable" OR "manipulate" OR "manipulated" OR "manipulates" OR "manipulating" OR "manipulation" OR "manipulations" OR "manipulator" OR "manipulator s" OR "manipulators") OR "Conservative therapy" OR "Conservative approach" OR (("intrarectal" OR "intrarectally") AND ("manipulability" OR "manipulable" OR "manipulate" OR "manipulated" OR "manipulates" OR "manipulating" OR "manipulation" OR "manipulations" OR "manipulator" OR "manipulator s" OR "manipulators")) OR "Conservative interventions" OR "soft tissue manipulation" OR "coccygeal manipulation" OR (("transrectal" OR "transrectally") AND ("manipulability" OR "manipulable" OR "manipulate" OR "manipulated" OR "manipulates" OR "manipulating" OR "manipulation" OR "manipulations" OR "manipulator" OR "manipulator s" OR "manipulators")) OR ("modalities" OR "modality" OR "modality s") OR "Physical agents" OR ("electric stimulation therapy" OR ("electric" AND "stimulation" AND "therapy") OR "electric stimulation therapy" OR "electrotherapies" OR "electrotherapy") OR ("heated" OR "heating" OR "heating" OR "heatings" OR "hot temperature" OR ("hot" AND "temperature") OR "hot temperature" OR "heats") AND ("agent" OR "agents")) OR "Infrared" OR "Pain management" OR ("exercise" OR "exercise" OR "exercises" OR "exercise therapy" OR ("exercise" AND "therapy") OR "exercise therapy" OR "exercising" OR "exercise s" OR "exercised" OR "exerciser" OR "exercisers") OR ("stretch" OR "stretched" OR "stretches" OR "stretching" OR "stretchings") OR "Physical rehabilitation" OR rehabilitation OR "Tapping techniques" OR tapping)) OR ("sham" OR "placebo" OR "advice only" OR "usual care")

Translations

Coccyx: "coccyx" OR "coccyx"

Pain: "pain" OR "pain"

Tailbone: "coccyx" OR "coccyx" OR "tailbone"

Pain: "pain" OR "pain"

Physiotherapy: "physical therapy modalities" OR ("physical" AND "therapy" AND "modalities") OR "physical therapy modalities" OR "physiotherapies" OR "physiotherapy"

Massage: "massage" OR "massage" OR "massages" OR "massaged" OR "massager" OR "massagers" OR "massaging"

Manipulation: "manipulability" OR "manipulable" OR "manipulate" OR "manipulated" OR "manipulates" OR "manipulating" OR "manipulation" OR "manipulations" OR "manipulator" OR "manipulator's" OR "manipulators"

intrarectal: "intrarectal" OR "intrarectally"

manipulation: "manipulability" OR "manipulable" OR "manipulate" OR "manipulated" OR "manipulates" OR "manipulating" OR "manipulation" OR "manipulations" OR "manipulator" OR "manipulator's" OR "manipulators"

transrectal: "transrectal" OR "transrectally"

manipulation: "manipulability" OR "manipulable" OR "manipulate" OR "manipulated" OR "manipulates" OR "manipulating" OR "manipulation" OR "manipulations" OR "manipulator" OR "manipulator's" OR "manipulators"

Modalities: "modalities" OR "modality" OR "modality's"

Electrotherapy: "electric stimulation therapy" OR ("electric" AND "stimulation" AND "therapy") OR "electric stimulation therapy" OR "electrotherapies" OR "electrotherapy"

Heating: "heated" OR "heating" OR "heating" OR "heatings" OR "hot temperature" OR ("hot" AND "temperature") OR "hot temperature" OR "heats"

agents: "agent" OR "agents"

Exercise: "exercise" OR "exercise" OR "exercises" OR "exercise therapy" OR ("exercise" AND "therapy") OR "exercise therapy" OR "exercising" OR "exercise's" OR "exercised" OR "exerciser" OR "exercisers"

Stretching: "stretch" OR "stretched" OR "stretches" OR "stretching" OR "stretchings"

Search strategy in grey literature

Coccydynia OR coccygodynia OR coccyx pain, AND conservative therapy OR conservative management, massage, manual therapy OR manipulation OR manipulations, OR intrarectal manipulation OR soft tissue manipulation OR muscle energy technique OR muscle energy techniques, electrotherapy OR physical agents, OR electric stimulation, OR heat therapy OR thermotherapy OR hot therapy OR Infrared OR infrared therapy OR shortwave diathermy OR diathermy OR shock wave therapy, exercise OR exercises OR exercise therapy OR therapeutic exercise OR stretching, tapping OR kinesiostapping, OR sham OR placebo OR advice OR usual care

Additional File 3**Excluded references**

SN	Reference	Reasons for exclusion
1.	Nasiri A, Farajzadeh Vajari F, Sane S, Afsargharehbagh R. Assessment of Ganglion Impar Block Effect on Treatment Results of Coccydynia: A Cross-Sectional Study. <i>Anesth Pain Med.</i> 2024 Mar 7;14(2):e142137. doi: 10.5812/aapm-142137. PMID: 38741900; PMCID: PMC11088838.	Selection criteria
2.	Güler E, Ünal HA. The relationship between disability and depression, anxiety, and sleep quality in patients with coccydynia. <i>Agri.</i> 2024 Jan;36(1):22-28. English. doi: 10.14744/agri.2023.23865. PMID: 38239122.	Selection criteria
3.	Rahimibarghani S, Morgan R, Diaz JJ. Neuromodulation Techniques in Chronic Refractory Coccydynia: A Narrative Review. <i>Pain Ther.</i> 2024 Feb;13(1):53-67. doi: 10.1007/s40122-023-00572-4. Epub 2024 Jan 4. PMID: 38175492; PMCID: PMC10796902.	Study design
4.	Nourani B, Norton D, Kuchera W, Rabago D. Transrectal osteopathic manipulation treatment for chronic coccydynia: feasibility, acceptability and patient-oriented outcomes in a quality improvement project. <i>J Osteopath Med.</i> 2023 Nov 24;124(2):77-83. doi: 10.1515/jom-2023-0001. PMID: 37999720.	Selection criteria
5.	Sukun A, Cubuk HS, Cankurtaran T, Sarsam BY, Yagdiran B, Incekas C. The overlooked symptom of coccydynia: evaluation of sacrococcygeal morphologic and morphometric findings. <i>Radiologie (Heidelb).</i> 2023 Nov;63(Suppl 2):113-122. English. doi: 10.1007/s00117-023-01239-z. Epub 2023 Nov 10. PMID: 37947861.	Selection criteria
6.	Kara D, Pulatkan A, Ucan V, Orujov S, Elmadag M. Traumatic coccydynia patients benefit from coccygectomy more than patients undergoing coccygectomy for non-traumatic causes. <i>J Orthop Surg Res.</i> 2023 Oct 27;18(1):802. doi: 10.1186/s13018-023-04098-5. PMID: 37891674; PMCID: PMC10605957.	Selection criteria
7.	KS, Malliaropoulos N, Bikos G, Lohrer H. Radial extracorporeal shockwave therapy (rESWT) for coccydynia: a prospective study of 14 patients. <i>Ann Med Surg (Lond).</i> 2023 Aug 4;85(10):4656-4661. doi: 10.1097/MS9.0000000000001133. PMID: 37811013; PMCID: PMC10553196.	Study design
8.	Can E, Yildiz G, Akkaya ÖT, Perdecioğlu GRG, Yürük D. Ultrasound-Guided Coccygeal Nerve Radiofrequency Ablation and Steroid Injection: Combination Therapy for Coccydynia. <i>J Ultrasound Med.</i> 2024 Jan;43(1):57-64. doi: 10.1002/jum.16334. Epub 2023 Sep 14. PMID: 37706553.	Selection criteria
9.	Lee SH, Yang M, Won HS, Kim YD. Coccydynia: anatomic origin and considerations regarding the effectiveness of injections for pain management. <i>Korean J Pain.</i> 2023 Jul 1;36(3):272-280. doi: 10.3344/kjp.23175. PMID: 37394271; PMCID: PMC10322656.	Selection criteria
10.	Esmaeeli S, Binda DD, Mejias Garcia J, Vaynberg E. Caudal epidural steroid injections with paracoccygeal injections for management of postpartum coccydynia: a case series. <i>Int J Obstet Anesth.</i> 2023 Aug;55:103897. doi: 10.1016/j.ijoa.2023.103897. Epub 2023 May 11. PMID: 37270858.	Selection criteria
11.	Kaya O, Bozgeyik B, Gök M, İmre E. Fluoroscopy guided without contrast injection for ganglion impar blockade in traumatic coccydynia: Description a modified approach and 1-year results. <i>Ulus Travma Acil Cerrahi Derg.</i> 2023 Mar;29(3):395-401. doi: 10.14744/tjtes.2023.78166. PMID: 36880627; PMCID: PMC10225848.	Selection criteria

12.	Malik SH, Ahmad K, Ali L. Ganglion Impar Block For Chronic Coccydynia. J Ayub Med Coll Abbottabad. 2023 Feb-Mar;35(1):123-126. doi: 10.55519/JAMC-01-11092. PMID: 36849391.	Selection criteria
13.	Swain BP, Vidhya S, Kumar S. Ganglion Impar Block: A Magic Bullet to Fix Idiopathic Coccygodynia. Cureus. 2023 Jan 18;15(1):e33911. doi: 10.7759/cureus.33911. PMID: 36819309; PMCID: PMC9937633.	Selection criteria
14.	Ahadi T, Asilian M, Raissi GR, Khalifeh Soltani S, Soleymanzadeh H, Sajadi S. Ultrasound-Guided vs. Blind Coccygeal Corticosteroid Injections for Chronic Coccydynia: A Randomized, Clinical Trial. Arch Bone Jt Surg. 2022 Oct;10(10):877-884. doi: 10.22038/ABJS.2022.58507.2895. PMID: 36452413; PMCID: PMC9702026.	Selection criteria
15.	Kumagai Y, Biyajima M, Shimizu I, Ishii W. Coccyx subluxation: Coccyx pain aggravated by the prone position. J Gen Fam Med. 2022 Jul 25;23(6):409-410. doi: 10.1002/jgf2.570. PMID: 36349205; PMCID: PMC9634120.	Selection criteria
16.	Sargin M, Sari M, Cicekci F, Kara I. Retrospective Evaluation of Patients Underwent Ganglion Impar Pulsed Radiofrequency due to Coccydynia. Sisli Etfal Hastan Tip Bul. 2022 Sep 22;56(3):386-390. doi: 10.14744/SEMB.2021.14396. PMID: 36304226; PMCID: PMC9580974.	Selection criteria
17.	Roa JA, White S, Barthélemy EJ, Jenkins A, Margetis K. Minimally invasive endoscopic approach to perform complete coccygectomy in patients with chronic refractory coccydynia: illustrative case. J Neurosurg Case Lessons. 2022 Jan 17;3(3):CASE21533. doi: 10.3171/CASE21533. PMID: 36130572; PMCID: PMC9379649.	Selection criteria
18.	Manfre L, Gil I, Baptista T, Calvão Pires P, de Vivo AE, Masala S, Chandra RV, D'Anna G, Hirsch JA. Coccygeoplasty: preliminary experience with this new alternative treatment of refractory coccydynia in patients with coccyx hypermobility. J Neurointerv Surg. 2023 Jan;15(1):82-85. doi: 10.1136/neurintsurg-2021-018149. Epub 2022 Jul 26. PMID: 35882554.	Selection criteria
19.	Allahverdi E, Allahverdi TD. A retrospective study on the pathologies in patients with coccydynia-lumbosacralgia and their treatment. Asian J Surg. 2023 Feb;46(2):688-691. doi: 10.1016/j.asjsur.2022.06.078. Epub 2022 Jul 14. PMID: 35843825.	Selection criteria
20.	Chang Chien G, Patel A, Wang D. Bipolar radiofrequency ablation of the anococcygeal nerve for the treatment of chronic coccydynia: A case report. Interv Pain Med. 2022 Jul 8;1(3):100115. doi: 10.1016/j.inpm.2022.100115. PMID: 39238516; PMCID: PMC11372932.	Selection criteria
21.	Wu WT, Hsu YC, Chang KV, Özçakar L. Ultrasound Imaging and Ultrasound-Guided Injection of the Coccygeal Nerve for Coccydynia. Am J Phys Med Rehabil. 2022 Jul 1;101(7):e108-e109. doi: 10.1097/PHM.0000000000001987. Epub 2022 Feb 23. PMID: 35220319.	Selection criteria
22.	Mulpuri N, Reddy N, Larsen K, Patel A, Diebo BG, Passias P, Tappen L, Gill K, Vira S. Clinical Outcomes of Coccygectomy for Coccydynia: A Single Institution Series With Mean 5-Year Follow-Up. Int J Spine Surg. 2022 Feb;16(1):11-19. doi: 10.14444/8171. Epub 2022 Feb 17. PMID: 35177527; PMCID: PMC9519066.	Selection criteria
23.	Liu CW, Zhang Q. Novel approach to pericapsular radiofrequency ablation of sacrococcygeal junction for patients with coccydynia. Reg Anesth Pain Med. 2022 Jun;47(6):385. doi: 10.1136/rapm-2022-103488. Epub 2022 Feb 1. PMID: 35105725.	Selection criteria
24.	Feigin G, Wang NN, Di Grazia V, Peng P. Novel approach for pericapsular radiofrequency ablation of sacrococcygeal junction for patients with coccydynia.	Selection criteria

	Reg Anesth Pain Med. 2022 Apr;47(4):259-262. doi: 10.1136/rapm-2021-103183. Epub 2022 Jan 10. PMID: 35012991.	
25.	Alimehmeti RH, Schuenke MD, Dellon AL. Anococcygeal Nerve and Sitting Pain: Differential Diagnosis and Treatment Results. Ann Plast Surg. 2022 Jan 1;88(1):79-83. doi: 10.1097/SAP.0000000000002920. PMID: 34670963.	Selection criteria
26.	Kalstad AM, Knobloch RG, Finsen V. Coccygectomy in the Treatment of Chronic Coccydynia. Spine (Phila Pa 1976). 2022 May 15;47(10):E442-E447. doi: 10.1097/BRS.0000000000004209. Epub 2021 Aug 30. PMID: 34468434.	Selection criteria
27.	White WD, Avery M, Jonely H, Mansfield JT, Sayal PK, Desai MJ. The interdisciplinary management of coccydynia: A narrative review. PM R. 2022 Sep;14(9):1143-1154. doi: 10.1002/pmrj.12683. Epub 2021 Sep 7. PMID: 34333873.	Study design
28.	Jensen MM, Milosevic S, Andersen GØ, Carreon L, Simony A, Rasmussen MM, Andersen MØ. Factors associated with patient-reported outcomes following coccygectomy for chronic coccydynia. Bone Jt Open. 2021 Jul;2(7):540-544. doi: 10.1302/2633-1462.27.BJO-2021-0018.R2. PMID: 34278838; PMCID: PMC8325972.	Selection criteria
29.	Charrière S, Maigne JY, Couzi E, Lefèvre-Colau MM, Rannou F, Nguyen C. Conservative treatment for chronic coccydynia: a 36-month prospective observational study of 115 patients. Eur Spine J. 2021 Oct;30(10):3009-3018. doi: 10.1007/s00586-021-06911-3. Epub 2021 Jul 3. PMID: 34216237.	Study design
30.	Malhotra N, Goyal S, Kumar A, Kanika, Singla V, Kundu ZS. Comparative evaluation of transsacrococcygeal and transcoccygeal approach of ganglion impar block for management of coccygodynia. J Anaesthesiol Clin Pharmacol. 2021 Jan-Mar;37(1):90-96. doi: 10.4103/joacp.JOACP_588_20. Epub 2021 Apr 10. PMID: 34103830; PMCID: PMC8174441.	Selection criteria
31.	Almetaher HA, Mansour MA, Shehata MA. Coccygectomy for Chronic Refractory Coccygodynia in Pediatric and Adolescent Patients. J Indian Assoc Pediatr Surg. 2021 Mar-Apr;26(2):102-106. doi: 10.4103/jiaps.JIAPS_22_20. Epub 2021 Mar 4. PMID: 34083893; PMCID: PMC8152407.	Selection criteria
32.	Garg B, Ahuja K. Coccydynia-A comprehensive review on etiology, radiological features and management options. J Clin Orthop Trauma. 2021 Jan;12(1):123-129. doi: 10.1016/j.jcot.2020.09.025. Epub 2020 Sep 24. Erratum in: J Clin Orthop Trauma. 2021 Oct;21:101561. doi: 10.1016/j.jcot.2021.101561. PMID: 33716437; PMCID: PMC7920198.	Selection criteria
33.	Milosevic S, Andersen GØ, Jensen MM, Rasmussen MM, Carreon L, Andersen MØ, Simony A. The efficacy of coccygectomy in patients with persistent coccydynia. Bone Joint J. 2021 Mar;103-B(3):542-546. doi: 10.1302/0301620X.103B3.BJJ-2020-1045.R2. PMID: 33641429.	Selection criteria
34.	Shams A, Gamal O, Mesregah MK. Sacrococcygeal Morphologic and Morphometric Risk Factors for Idiopathic Coccydynia: A Magnetic Resonance Imaging Study. Global Spine J. 2023 Jan;13(1):140-148. doi: 10.1177/2192568221993791. Epub 2021 Feb 11. PMID: 33567908; PMCID: PMC9837515.	Selection criteria
35.	Finsen V, Kalstad A, Knobloch RG. The effect of injection therapy and operation of coccydynia on the schooling and physical activity of adolescent patients. Orthop Rev (Pavia). 2020 Nov 24;12(3):8619. doi: 10.4081/or.2020.8619. PMID: 33312487; PMCID: PMC7726829.	Selection criteria
36.	Fiani B, Davati C, Griep DW, Lee J, Pennington E, Moawad CM. Enhanced Spinal Therapy: Extracorporeal Shock Wave Therapy for the Spine. Cureus. 2020 Oct	Selection criteria

	27;12(10):e11200. doi: 10.7759/cureus.11200. PMID: 33269131; PMCID: PMC7704023.	
37.	Finsen V, Kalstad AM, Knobloch RG. Corticosteroid injection for coccydynia: a review of 241 patients. <i>Bone Jt Open</i> . 2020 Nov 2;1(11):709-714. doi: 10.1302/2633-1462.111.BJO-2020-0146. PMID: 33263110; PMCID: PMC7690760.	Selection criteria
38.	Kalstad AM, Knobloch RG, Finsen V. The treatment of coccydynia in adolescents: A case-control study. <i>Bone Jt Open</i> . 2020 May 12;1(5):115-120. doi: 10.1302/2633-1462.15.BJO-2020-0017. PMID: 33225284; PMCID: PMC7677095.	Study design
39.	Finsen V, Kalstad A, Knobloch RG. Normal Preoperative Images Do Not Indicate a Poor Outcome of Surgery for Coccydynia. <i>Spine (Phila Pa 1976)</i> . 2020 Nov 15;45(22):1567-1571. doi: 10.1097/BRS.0000000000003642. PMID: 33122606.	Selection criteria
40.	Foye PM, Jason WTK, Zheng KY, Leong KK. Low incidence of vascular uptake during ganglion impar sympathetic nerve blocks for coccydynia. <i>Indian J Radiol Imaging</i> . 2020 Apr-Jun;30(2):181-183. doi: 10.4103/ijri.IJRI_302_19. Epub 2020 Jul 13. PMID: 33100686; PMCID: PMC7546296.	Selection criteria
41.	Yang S, Chang MC. Efficacy of pulsed radiofrequency in controlling pain caused by spinal disorders: a narrative review. <i>Ann Palliat Med</i> . 2020 Sep;9(5):3528-3536. doi: 10.21037/apm-20-298. Epub 2020 Sep 7. PMID: 32921088.	Selection criteria
42.	Koné N. About an observation of coccydynia treated by surgery. <i>Pan Afr Med J</i> . 2020 Jun 26;36:135. doi: 10.11604/pamj.2020.36.135.19904. PMID: 32849990; PMCID: PMC7422743.	Selection criteria
43.	Lyon KA, Huang JH, Garrett D. Influence of psychiatric disorders and chronic pain on the surgical outcome in the patient with chronic coccydynia: a single institution's experience. <i>Neurol Res</i> . 2020 Sep;42(9):789-794. doi: 10.1080/01616412.2020.1775014. Epub 2020 Jun 4. PMID: 32496925.	Selection criteria
44.	Porter ZR, Mejia-Munne JC, Krueger BM, Kosty JA, Ngwenya LB. Sacral Rheumatoid Nodule: An Unusual Indication for Coccygectomy. <i>Case Rep Surg</i> . 2020 May 8;2020:2757625. doi: 10.1155/2020/2757625. PMID: 32455045; PMCID: PMC7232729.	Selection criteria
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