

If we search using the following keywords, the number of publications will be very high (2535 last week and 2538 this week; screenshot below).

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1. [A Randomised Clinical Trial of Buffered Tumescence Local Anaesthesia During Endothermal Ablation for Superficial Venous Incompetence.](#)
Nandhra S, Wallace T, El-Sheikha J, Leung C, Carradice D, Chetter I.
Eur J Vasc Endovasc Surg. 2018 Nov;56(5):699-708. doi: 10.1016/j.ejvs.2018.05.017. Epub 2018 Jun 29.
PMID: 30392525
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2. [Pain control for patients with hepatocellular carcinoma undergoing CT-guided percutaneous microwave ablation.](#)
Zhang HZ, Pan J, Sun J, Li YM, Zhou K, Li Y, Cheng J, Wang Y, Shi DL, Chen SH.
Cancer Imaging. 2018 Nov 1;18(1):40. doi: 10.1186/s40644-018-0174-4.
PMID: 30382891 Free PMC Article
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3. [Benefit of Contact Force Sensing Catheter Technology for Successful Left Atrial Anterior Line Formation: A Prospective Randomized Trial.](#)
Fichtner S, Wakili R, Rizas K, Siebermair J, Sinner MF, Wiktor T, Lackermair K, Schuessler F, Olesch L, Rainer S, Kaab S, Curta A, Kramer H, Estner HL.
Biomed Res Int. 2018 Sep 18;2018:9784259. doi: 10.1155/2018/9784259. eCollection 2018.
PMID: 30320138 Free PMC Article
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4. [Percutaneous versus thoracoscopic ablation of symptomatic paroxysmal atrial fibrillation: a randomised controlled trial - the FAST II study.](#)
Sindby JE, Vadmann H, Lundbye-Christensen S, Riahi S, Hjortshøj S, Boersma LVA, Andreassen JJ.
J Cardiothorac Surg. 2018 Oct 3;13(1):101. doi: 10.1186/s13019-018-0792-8.
PMID: 30285795 Free PMC Article
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5. [The predictive value of intra-left atrial mechanical delay for 1-year recurrence of atrial fibrillation after catheter ablation: A clinical follow-up study using dual Doppler echocardiography.](#)
Zhou Y, Chen J, Hu B, Cao S, Zhou Q, Guo R.
J Clin Ultrasound. 2018 Oct;46(8):519-526. doi: 10.1002/jcu.22629. Epub 2018 Sep 19.
PMID: 30229917
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6. [A Prospective Assessment of Optimal Mechanical Ventilation Parameters for Endotracheal Catheter](#)

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If we specify the specific disease, such as “chronic back pain”, and specify the publication type to be “clinical trial”, the number of relevant publication is only 20 (screenshot below). In the last week’s discussion, we decided that in this project, we would assume the patient has chronic back pain.

https://www.ncbi.nlm.nih.gov/pubmed?term=((radiofrequency ablation[MeSH Terms]) AND chronic back pain[MeSH Terms]) AND clinical trial[Publication Type]

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☐ [Intraosseous basivertebral nerve ablation for the treatment of chronic low back pain: a prospective randomized double-blind sham-controlled multi-center study.](#)
1. Fischgrund JS, Rhyne A, Franke J, Sasso R, Kitchel S, Bae H, Yeung C, Truumees E, Schaefele M, Yuan P, Vajkoczy P, DePalma M, Anderson DG, Thibodeau L, Meyer B. Eur Spine J. 2018 May;27(5):1146-1156. doi: 10.1007/s00586-018-5496-1. Epub 2018 Feb 8. PMID: 29423885 [Similar articles](#)

☐ [Twelve-Month Follow-up of a Randomized Clinical Trial Comparing Intradiscal Biacuplasty to Conventional Medical Management for Discogenic Lumbar Back Pain.](#)
2. Desai MJ, Kapural L, Petersohn JD, Vallejo R, Menzies R, Creamer M, Gofeld M. Pain Med. 2017 Apr 1;18(4):751-763. doi: 10.1093/pm/pnw184. PMID: 27570246 [Similar articles](#)

☐ [Twelve-Month Follow-Up of a Randomized Trial Assessing Cooled Radiofrequency Denervation as a Treatment for Sacroiliac Region Pain.](#)
3. Patel N. Pain Pract. 2016 Feb;16(2):154-67. doi: 10.1111/papr.12269. Epub 2015 Jan 7. PMID: 25565322 [Similar articles](#)

☐ [A randomized, placebo-controlled trial of transdiscal radiofrequency, biacuplasty for treatment of discogenic lower back pain.](#)
4. Kapural L, Vrooman B, Sarwar S, Krizanac-Bengez L, Rauck R, Gilmore C, North J, Girgis G, Mekhail N. Pain Med. 2013 Mar;14(3):362-73. doi: 10.1111/pme.12023. Epub 2012 Dec 28. PMID: 23279658 [Similar articles](#)

☐ [Lumbar medial branch radiofrequency neurotomy in New Zealand.](#)
5. MacVicar J, Borowczyk JM, MacVicar AM, Loughnan BM, Bogduk N. Pain Med. 2013 May;14(5):639-45. doi: 10.1111/pme.12000. Epub 2012 Dec 28. PMID: 23279154 [Similar articles](#)

I looked through the abstracts of the latest 10 publications, the majority of these publications supported RFA as a good procedure for chronic back pain, with the effectiveness beyond 1 or 2 years.

I recommend we use the search term

((radiofrequency ablation[MeSH Terms]) AND chronic back pain[MeSH Terms]) AND clinical trial[Publication Type]

The term chronic back pain can be changed to other diseases or other pain, such as chronic sacroiliac joint pain. If we specify a specific pain and the publication type as clinical trial, we won't get too many publications.