

**Radius fracture:
update searches and screening
for
Universitätsklinikum Schleswig-Holstein/Campus Kiel**



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1. PROJECT OBJECTIVES

A key aim of the research project “Making SDM a reality” is to inform patients as part of shared decision making (SDM).

Kleijnen Systematic Reviews (KSR) Ltd has prepared an evidence report with a synthesis of the evidence of treatment options for radius fracture.

2. METHODS

LITERATURE SEARCHES

Literature searches were carried out using a stepwise approach to identify relevant studies according to study design:

1. Systematic reviews and guidelines
2. Randomised controlled trials
3. Observational studies
4. Supplementary searches

Only in the event of no relevant systematic reviews or guidelines being identified were further searches to be conducted to identify randomised controlled trials (RCTs, step 2), and if no RCTs were identified, only then would searches be undertaken to identify observational studies (Step 3).

The search strategies were developed specifically for each database and the keywords adapted according to the configuration of each database. Searches were limited by date range for systematic reviews and guidelines to 2012-2019. Where appropriate, searches were limited to remove animal studies. Searches were not limited by language or publication status.

Handling of citations

Identified references from the bibliographic database searches were downloaded into EndNote bibliographic management software for further assessment and handling. Individual records within the EndNote libraries were tagged with searching information, such as searcher, date searched, database host, database searched, strategy name and iteration, theme or search question. This enabled the information specialist to track the origin of each individual database record, and its progress through the screening and review process.

SEARCH SOURCES

LITERATURE SEARCHES

Literature searches were conducted to identify systematic reviews and evidence-based guidelines about radius fractures to update the 2019 evidence report.

The search strategies were developed specifically for each database and the keywords adapted according to the configuration of each database. Searches were limited by date range for systematic reviews and guidelines to 2019-2021. Searches were not limited by language or publication status.

Systematic reviews and guidelines

The following systematic review and health technology assessment specific databases were searched:

- Cochrane Database of Systematic Reviews (CDSR) (Wiley): 2019-2021/10/Iss10
- KSR Evidence (Internet) (<https://ksrevidence.com/>): 2019-2021/10/06
- Epistemonikos (Internet) (<https://www.epistemonikos.org/>): 2019-2021/10/06
- International HTA Database (INAHTA) (<https://database.inahta.org/>): 2019-2021/10/07

The following guidelines resources were searched:

- Guidelines International Network (GIN) (Internet) (<https://www.g-i-n.net/home>): 2019-2021/10/06
- NICE Evidence (Internet) (www.evidence.nhs.uk/): 2019-2021/10/07
- NICE Guidance (Internet) (<https://www.nice.org.uk/guidance>): 2019-2021/10/07
- ECRI Guidelines Trust (Internet) (<https://guidelines.ecri.org/>): 2019-2021/10/07
- Trip Database (<https://www.tripdatabase.com/>): 2019-2021/10/07
- Canadian Agency for Drugs and Technologies in Health (CADTH) (www.cadth.ca): 2019-2021/10/07

Full details of all search strategies are presented in Appendix 1.

Handling of citations

References identified from the searches were downloaded into EndNote bibliographic management software for further assessment and handling.

Supplementary searches

The bibliographies of included studies and review articles were also checked for additional relevant articles.

Prioritisation

During formal screening of titles and abstracts, studies were subject to a prioritisation process whereby the recency e.g., to most up-to-date clinical practice guidelines (CPG), methodological quality e.g., Cochrane systematic review (CSR), quality of the analyses per outcome (e.g., ratio of RCTs to observational studies), the number of included RCTs, the breadth of the timepoints reported etc. were considered to further prioritise which studies would be used to inform analyses. Studies were categorised into the following three categories: '1' = German, American, European or similar CPG; '2' = CSR or similar quality SR; '3' = potentially lower/other quality SR.

3. RESULTS

The original KSR searches were conducted on January 14, 2019; and of the 280 references screened, 18 studies were deemed eligible. In the current update, a total of 772 records were retrieved from the electronic literature searches (Appendix 1). After the removal of duplicate records 597 titles and abstracts were screened by two reviewers. Thirty-eight records were found to be potentially eligible and were longlisted after a consensus. Of those, five were

short-listed and included in the analyses (Table 1).¹⁻⁵ See also Table 2 for an overview of primary studies included in the identified SRs/CPGs.

UPDATE – Concluding Assessment by SHARE TO CARE Evidence Team (06/10/22)

Five systematic reviews or guidelines were identified in the update search (KSR December 2021). Overall, they confirm the results of the evidence report. For one aspect – the suitability of the surgical treatment for elderly people – the results differ. Ochen 2020 reports that “[...] operative treatment might be more effective and have a greater effect on the health and well-being of younger, nonelderly patients”. Which is contrary to the recommendation in the decision aid/evidence report. The personal life situation can have a major influence on the choice of treatment. For example, if an elderly person uses a walker, rapid stabilization of the wrist can be particularly important. Because of the low evidence quality and the large individual differences, we assume that a general recommendation for a specific age group is not possible. The decision aid has been adjusted accordingly.

Table 1 Evidence sources

Study/year	Evidence type	Primary studies	Number of studies	Intervention(s)	Comparator(s)	Outcome(s)	Date searched	Conclusions
AAOS 2020 ¹	CPG	RCT,OS*	17*	Spanning External Fixation, Percutaneous Pinning, Dorsal Spanning Bridge/Wrist Plate, Volar Locking Plate, Dorsal Plate	Fragment Specific Fixation, Intramedullary Nail, Immobilisation without reduction, Reduction and Immobilisation	Multiple	February 19, 2020	"[...] current practice patterns, despite being practice norms, may not be supported as high-quality care, and should be evaluated by the same level of scrutiny" See also section 3 and eAppendix 2 of the CPG.
Gimigliano 2020 ²	SR	CPG	2	Multiple	Multiple	Multiple	27 February 2019	The selected CPGs on management of distal radius [...] fracture include few recommendations regarding rehabilitation, with overall low to very low quality of evidence and weak/conditional strength of recommendation.
Cui 2020 ³	SR	RCT	8	Plaster splint	Splint	Effective rate, excellent rate, reduction rate, complication rate	January 2019	"There is no sufficient evidence that plaster splint is superior to splint"
Gouk 2019 ⁴	SR	RCT	4	Internal fixation	External fixation	grip strength, Radiographic measurements, range of motion, subjective functional scoring	December 2016	"The meta-analysis indicated that there is no difference in outcomes with either form of treatment"

Study/year	Evidence type	Primary studies	Number of studies	Intervention(s)	Comparator(s)	Outcome(s)	Date searched	Conclusions
						and complications		
Ochen 2020 ⁵	SR	RCT,OS	9*	Surgery	Non-surgical treatment	Function, complications	June 15, 2019	"The findings suggest that operative treatment might be more effective and have a greater effect on the health and well-being of younger, nonelderly patients"

* = refers to studies published after 2015.

AAOS = The American Academy of Orthopaedic Surgeons; CPG = clinical practice guideline; OS = observational study; RCT = randomised controlled trial.

Table 2 Overview of primary studies included in the identified SRs/CPGs

Study/year	Primary study(ies)	Reference (first author & journal)
AAOS 2020 ¹	RCT,OS*	1. Venkatesh, R. B., Maranna, G. K., Narayanappa, R. K. A Comparative Study between Closed Reduction and Cast Application Versus Percutaneous K- Wire Fixation for Extra-Articular Fracture Distal end of Radius. Journal of Clinical and Diagnostic Research JCDR 2016; 2: RC05-9 2. Drobetz, H., Koval, L., Weninger, P., Luscombe, R., Jeffries, P., Ehrendorfer, S., Heal, C. Volar locking distal radius plates show better short-term results than other treatment options: A prospective randomised controlled trial. World Journal of Orthopedics 2016; 10: 687-694 3. Mellstrand Navarro, C., Ahrengart, L., Tornqvist, H., Ponzer, S. Volar Locking Plate or External Fixation With Optional Addition of K-Wires for Dorsally Displaced Distal Radius Fractures: A Randomized Controlled Study. Journal of Orthopaedic Trauma 2016; 4: 217-24 4. Gutierrez-Espinoza, H., Rubio-Oyarzun, D., Olguin-Huerta, C., Gutierrez-Monclus, R., Pinto-Concha, S., Gana-Hervias, G. Supervised physical therapy vs home exercise program for patients with distal radius fracture: A single-blind randomized clinical study. Journal of Hand Therapy 2017; 3: 242-252 5. Landgren, M., Abramo, A., Geijer, M., Kopylov, P., Tagil, M. Fragment-Specific Fixation Versus Volar Locking Plates in Primarily Nonreducible or Secondarily Redispaced Distal Radius Fractures: A Randomized Controlled Study. Journal of Hand Surgery - American Volume 2017; 3: 156-165.e1

Study/year	Primary study(ies)	Reference (first author & journal)
		6. Martinez-Mendez, D., Lizaur-Utrilla, A., de-Juan-Herrero, J. Intra-articular distal radius fractures in elderly patients: a randomized prospective study of casting versus volar plating. <i>Journal of Hand Surgery: European Volume</i> 2018; 2: 142-147 7. Luo, P., Lou, J., Yang, S. Pain Management during Rehabilitation after Distal Radius Fracture Stabilized with Volar Locking Plate: A Prospective Cohort Study. <i>BioMed Research International</i> 2018; 0: 5786089 8. Florek, J., Kotela, I., Georgiew, F., Zienczuk, W., Rzeszutek, T. Comparison of Radiographic Outcomes of Surgical Treatment in Patients with Distal Radial Fractures. <i>Ortopedia Traumatologia Rehabilitacja</i> 2018; 6: 483-492 9. Burnier, M., Le Chatelier Riquier, M., Herzberg, G. Treatment of intra-articular fracture of distal radius fractures with fluoroscopic only or combined with arthroscopic control: A prospective tomodensitometric comparative study of 40 patients. <i>Orthopaedics & traumatology, surgery & research</i> 2018; 1: 89-93 10. Costa, M. L., Achten, J., Rangan, A., Lamb, S. E., Parsons, N. R. Percutaneous fixation with Kirschner wires versus volar locking-plate fixation in adults with dorsally displaced fracture of distal radius: five-year follow-up of a randomized controlled trial. <i>The bone & joint journal</i> 2019; 8: 978-983 11. van Gerven, P., El Moumni, M., Zuidema, W. P., Rubinstein, S. M., Krijnen, P., van Tulder, M. W., Schipper, I. B., Termaat, M. F. Omitting Routine Radiography of Traumatic Distal Radial Fractures After Initial 2-Week Follow-up Does Not Affect Outcomes. <i>The Journal of bone and joint surgery. American volume</i> 2019; 15: 1342-1350 12. Hammer, O. L., Clementsen, S., Hast, J., Saltyte Benth, J., Madsen, J. E., Randsborg, P. H. Volar Locking Plates Versus Augmented External Fixation of Intra-Articular Distal Radial Fractures: Functional Results from a Randomized Controlled Trial. <i>Journal of Bone & Joint Surgery - American Volume</i> 2019; 4: 311-321 13. Yazdanshenas, Hamed, Washington, Eleby Rudolph, 3rd, Madadi, Firoozeh, Madadi, Firooz, Shamie, Arya Nick, Hornicek, Francis John, Azari, Kodi Introducing and Prospective Efficacy Comparison of an Innovative and Affordable Technique for the Treatment of Distal Radius Fractures. <i>Journal of Orthopaedics</i> 2019; 6: 596-602 14. Mulders, M. A. M., Walenkamp, M. M. J., van Dieren, S., Goslings, J. C., Schep, N. W. L., Viper Trial Collaborators Volar Plate Fixation Versus Plaster Immobilization in Acceptably Reduced Extra-Articular Distal Radial Fractures: A Multicenter Randomized Controlled Trial. <i>Journal of Bone & Joint Surgery - American Volume</i> 2019; 9: 787-796 15. Saab, M., Wunenburger, P. E., Guerre, E., Chantelot, C., Morel, V., Ehlinger, M., Bauer, T. Does arthroscopic assistance improve reduction in distal articular radius fracture? A retrospective comparative study using a blind CT assessment. <i>European journal of orthopaedic surgery & traumatologie</i> 2019; 2: 405-411 16. Saving, J., Severin Wahlgren, S., Olsson, K., Enocson, A., Ponzer, S., Skoldenberg, O., Wilcke, M., Mellstrand Navarro, C. Nonoperative Treatment Compared with Volar Locking Plate Fixation for Dorsally Displaced Distal Radial

Study/year	Primary study(ies)	Reference (first author & journal)
		Fractures in the Elderly: A Randomized Controlled Trial. Journal of Bone & Joint Surgery - American Volume 2019; 11: 961-969 17. Sirnio, K., Leppilahti, J., Ohtonen, P., Flinkkila, T. Early palmar plate fixation of distal radius fractures may benefit patients aged 50 years or older: a randomized trial comparing 2 different treatment protocols. Acta Orthopaedica 2019; 2: 123-128
Gimigliano 2020 ²	CPG	1. American Academy of Orthopaedic Surgeons. The treatment of distal radius fractures. 2009. https://www.aaos.org/globalassets/quality-and-practice-resources/distal-radius/distal-radius-fractures-clinical-practice-guideline.pdf 2. Danish Health Authority. National clinical guideline on the treatment of distal radial fractures. 2016. https://www.sst.dk/da/
Cui 2020 ³	RCT	1. Huan W, Fucai H, Qunyou Y. Comparison of the curative effect between macromolecule plaster splint and small splint for distal radius fractures [in Chinese]. Pract Clin J Integr Tradit Chin West Med 2018;18:130–1. 2. Wenxu W. Effect analysis of plaster splint external fixation and small splint fixation for distal radius fractures [in Chinese]. Health Care Guide 2016;51:143–4. 3. Jun C. Observation on the curative effect of closed reduction and plaster splint in the treatment of distal radius fractures [in Chinese]. Contemp Med Forum 2015;13:275–6. 4. Guoqing L. Clinical observation of closed reduction and plaster splint fixation for distal radius fractures [in Chinese]. Chin J Trauma Disabil Med 2015;12:37–8. 5. Yushu F, Weiqing H. Observation on the curative effect of rotatory plaster splint fixation and traditional small splint fixation in treatment of C3 extensional fractures of distal radius. J New Chin Med [in Chinese] 2011;43:56–7. 6. Qiang W, Huabing L, Lin Y. Low temperature plate external fixation for the treatment of distal radius straight fractures in 96 cases: compared with splint external fixation and plaster splint supercarpal external fixation [in Chinese]. J Clin Rehab Tissue Eng Res 2010;14:7955–8. 7. Xiangyong Z. Manual reduction of stable distal radius fractures with plaster splint and small splint [in Chinese]. Med Inf 2010;23:2852–4. 8. Pingan L, Shilong X, Yanqin X, et al. Observation of the effect of agma splint fixation in the treatment of distal radius fractures [in Chinese]. J New Chin Med 2012;44:85–7
Gouk 2019 ⁴	RCT	1. Kapoor H, Agarwal A, Dhaon BK. Displaced intra-articular fractures of distal radius: a comparative evaluation of results following closed reduction, external fixation and open reduction with internal fixation. Injury 2000;31:75-9 2. Xu GG, Chan SP, Puhaindran ME, Chew WY. Prospective randomised study of intra-articular fractures of the distal radius: comparison between external fixation and plate fixation. Ann Acad Med Singapore 2009;38:600-6.

Study/year	Primary study(ies)	Reference (first author & journal)
		- Landgren M, Jerrhag D, Tagil M, et al. External or internal fixation in the treatment of non-reducible distal radial fractures? <i>Acta Orthop</i> 2011;82:610-3. - Williksen JH, Husby T, Hellund JC, et al. External Fixation and Adjuvant Pins Versus Volar Locking Plate Fixation in Unstable Distal Radius Fractures: A Randomized, Controlled Study With a 5-Year Follow-Up. <i>J Hand Surg Am</i> 2015;40:1333-40
Ochen 2020 ⁵	RCT,OS*	- Barai A, Lambie B, Cosgrave C, Baxter J. Management of distal radius fractures in the emergency department: a long-term functional outcome measure study with the Disabilities of Arm, Shoulder and Hand (DASH) scores. <i>Emerg Med Australas.</i> 2018;30(4):530-537 - Jordan RW, Naeem R, Jadoon S, Parsons H, Shyamalan G. Cast immobilisation versus wire fixation in the management of middle-aged and elderly patients with distal radius fractures. <i>J Hand Surg Asian Pac Vol.</i> 2016;21(1):18-23 - Larouche J, Pike J, Slobogean GP, et al. Determinants of functional outcome in distal radius fractures in highfunctioning patients older than 55 years. <i>J Orthop Trauma.</i> 2016;30(8):445-449. - Martinez-Mendez D, Lizaur-Utrilla A, de-Juan-Herrero J. Intra-articular distal radius fractures in elderly patients: a randomized prospective study of casting versus volar plating. <i>J Hand Surg Eur Vol.</i> 2018;43(2):142-147. - Mulders MAM, Walenkamp MMJ, van Dieren S, Goslings JC, Schep NWL; VIPER Trial Collaborators. Volar plate fixation versus plaster immobilization in acceptably reduced extra-articular distal radial fractures: a multicenter randomized controlled trial. <i>J Bone Joint Surg Am.</i> 2019;101(9):787-796. - Sirniö K, Leppilähti J, Ohtonen P, Flinkkilä T. Early palmar plate fixation of distal radius fractures may benefit patients aged 50 years or older: a randomized trial comparing 2 different treatment protocols. <i>Acta Orthop.</i> 2019; 90(2):123-128. - Toon DH, Premchand RAX, Sim J, Vaikunthan R. Outcomes and financial implications of intra-articular distal radius fractures: a comparative study of open reduction internal fixation (ORIF) with volar locking plates versus nonoperative management. <i>J Orthop Traumatol.</i> 2017;18(3):229-234 - van Leerdam RH, Huizing F, Termaat F, et al. Patient-reported outcomes after a distal radius fracture in adults: a 3-4 years follow-up. <i>Acta Orthop.</i> 2019;90(2):129-134. - Zengin EC, Ozcan C, Aslan C, Bulut T, Sener M. Cast immobilization versus volar locking plate fixation of AO type C distal radial fractures in patients aged 60 years and older. <i>Acta Orthop Traumatol Turc.</i> 2019;53(1):15-18.
* = only studies published after 2015 were extracted. CPG = clinical practice guideline; OS = observational study; RCT = randomised controlled trial.		

REFERENCES

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- [2] Gimigliano F, Liguori S, Moretti A, Toro G, Rauch A, Negrini S, et al. Systematic review of clinical practice guidelines for adults with fractures: identification of best evidence for rehabilitation to develop the WHO's Package of Interventions for Rehabilitation. *J Orthop Traumatol* 2020;21(1):20.
- [3] Cui X, Liang L, Zhang H, Li Y, Cheng H, Liu G, et al. The effectiveness and safety of plaster splint and splints for distal radius fractures: a systematic review and meta-analysis of randomized controlled trials. *Medicine* 2020;99(9):e19211.
- [4] Gouk C, Ng SK, Knight M, Bindra R, Thomas M. Long term outcomes of open reduction internal fixation versus external fixation of distal radius fractures: a meta-analysis. *Orthop Rev (Pavia)* 2019;11(3):7809.
- [5] Ochen Y, Peek J, van der Velde D, Beeres FJP, van Heijl M, Groenwold RHH, et al. Operative vs nonoperative treatment of distal radius fractures in adults: a systematic review and meta-analysis. *JAMA Netw Open* 2020;3(4):e203497.

APPENDIX 1: SEARCH STRATEGIES

Shared Decision Making: radius fracture update (KSR)

Table 3. Systematic reviews and guideline search results

Database	Dates	Results
CDSR	2019-2021/10/Iss10	3
KSR Evidence	2019-2021/10/06	162
Epistemonikos	2019-2021/10/06	173
INAHTA	2019-2021/10/07	6
NICE Evidence	2019-2021/10/07	273
NICE Guidance	2019-2021/10/07	5
GIN	2019-2021/10/06	5
ECRI	2019-2021/10/07	46
Trip	2019-2021/10/07	99
CADTH	2019-2021/10/07	0
Total		772
Total after de-duplication		597
Total after de-duplication with original ENL		594

Cochrane Database of Systematic Reviews (CDSR)(Wiley): 2019-2021/10/Iss10 Searched 6.10.21

#1 MeSH descriptor: [Radius Fractures] this term only 565
 #2 MeSH descriptor: [Colles' Fracture] this term only 110
 #3 MeSH descriptor: [Forearm Injuries] explode all trees 623
 #4 MeSH descriptor: [Wrist Injuries] this term only 158
 #5 #1 or #2 or #3 or #4 774
 #6 MeSH descriptor: [Radius] this term only 189
 #7 MeSH descriptor: [Wrist] this term only 348
 #8 MeSH descriptor: [Wrist Joint] explode all trees 259
 #9 #6 or #7 or #8 781
 #10 MeSH descriptor: [Fractures, Bone] explode all trees 6509
 #11 MeSH descriptor: [Fractures, Closed] this term only 136
 #12 MeSH descriptor: [Fracture Fixation] explode all trees 1852
 #13 MeSH descriptor: [Fracture Healing] this term only 549
 #14 10 or #11 or #12 or #13 1096056
 #15 #9 and #14 720
 #16 #5 or #15 1402
 #17 ((radius or radial or radii or wrist* or radiocarpal or 'radio carpal' or forearm* or arm or arms or DRUJ) near/5 (fracture* or broken or break*)):ti,ab 2041
 #18 ((Barton* or Colles* or Galeazzi* or Smith* or Chauffer* or die-punch or 'die punch') near/5 fracture*):ti,ab 265
 #19 #16 or #17 or #18 with Cochrane Library publication date Between Jan 2019 and Oct 2021, in Cochrane Reviews, Cochrane Protocols 3

CDSR retrieved 3

CDSR Protocols retrieved 0

KSR Evidence (Internet): 2019-2021/10/06

<https://ksrevidence.com/>

Searched 6.10.21

1 (radius or radial or radii or wrist* or radiocarpal or "radio carpal" or forearm* or "fore arm*" or DRUJ) and (fracture* or broken or break*) in All text 322 results

2 "Barton* fracture*" or "Colles* fracture*" or "Galeazzi* fracture*" or "Smith* fracture*" or "Chauffer* fracture*" or "die-punch fracture*" or "die punch fracture*" in All text 5 results

3 #1 or #2 in All text 162 results

Filtered by: PUBLICATION DATE 2021, 2020, 2019

Epistemonikos (Internet) 2019-2021/10/06

<https://www.epistemonikos.org/en/>

Searched 6.10.21

Limited 2019-2021.

Limited to systematic reviews, Cochrane SRs omitted.

(title:((radius OR radial OR radii OR wrist* OR radiocarpal OR "radio carpal" OR forearm* OR "fore arm*" OR DRUJ) AND (fracture* OR broken OR break*)) OR abstract:((radius OR radial OR radii OR wrist* OR radiocarpal OR "radio carpal" OR forearm* OR "fore arm*" OR DRUJ) AND (fracture* OR broken OR break*))) OR (title:("Barton* fracture*" OR "Colles* fracture*" OR "Galeazzi* fracture*" OR "Smith* fracture*" OR "Chauffer* fracture*" OR "die-punch fracture*" OR "die punch fracture*" 0) OR abstract:("Barton* fracture*" OR "Colles* fracture*" OR "Galeazzi* fracture*" OR "Smith* fracture*" OR "Chauffer* fracture*" OR "die-punch fracture*" OR "die punch fracture*" 0))

Retrieved 173

International HTA Database (INAHTA): up to 2021/10/07

<https://database.inahta.org/>

Searched: 7.10.21

Keywords (FROM 2019 TO 2021)	hits
((radius or radial or radii or wrist or wrists or radiocarpal or 'radio carpal' or forearm* or arm or arms or DRUJ) and (fracture* or broken or break*))	5
"Radius Fractures"[mh]	1
Total	6

Hits retrieved 6

NICE Evidence (Internet): up to 2021/10/07

<https://www.evidence.nhs.uk/>

Searched 7.10.21

Search term: (fracture OR Broken OR break) AND (wrist* OR Radius OR radial OR arm*)*

Evidence type: Guidance

Date: 01/01/2019– 07/10/2021

273 records found

NICE Guidelines (internet): up to 2021/10/07

<https://www.nice.org.uk/>

Searched 7.10.21

Search terms: fracture or radius or radial or wrist or arm

Document type: Guidance

Status: published

182 records found

Browsed for relevancy from 2019-2021. **5 potentially relevant references**

Guidelines International Network (GIN): 2019-2021/10/06

<https://www.g-i-n.net/library/international-guidelines-library>

Searched 6.10.21

Evidence type: Guideline

Publication status: Published

Publication Year: 2019-2021

Keywords	Hits
<i>fracture</i>	4
<i>fractures</i>	1/5 (dupes)
<i>radius</i>	0/1
<i>radial</i>	0
<i>wrist</i>	1/2
<i>arm</i>	0/2
Total without duplicates	6

ECRI Institute Guidelines Trust: 2019-2021/10/07

<https://guidelines.ecri.org/>

Searched 7.10.21

2019-2021

Search terms: fracture OR fractures OR radius OR radial OR wrist OR arm

46 records found

Trip Database: 2019-2021/10/07

<https://www.tripdatabase.com/>

Searched: 7.10.21

All Words (Proximity = 4)	Hits SRs	Guidelines
fracture wrist	29	9
fracture Radius	40/50	5/10
fracture Radial	16/27	0/3
Total	106	22
Total without duplicates	85	14

99 records retrieved

Canadian Agency for Drugs and Technologies in Health (CADTH): 2019-2021/10/07

<https://www.cadth.ca/>

Searched: 7.10.21

Contains all words	Hits
fracture wrist	0
fractures wrist	0
fracture Radius	0
fractures Radius	0
fracture Radial	0
Fractures Radial	0
Total	0

All words; Project Line; Health Technology Review; 2019-2021

0 records retrieved

Additional search using Advanced search

(fracture OR Fractures OR Broken OR break) AND (wrist OR wrists OR Radius OR radial OR arm)

Project Line; Health Technology Review; 2019-2021

0 records retrieved