Appendix I: list of included devices and corresponding manufacturers

Hip stems:

Trade name Manufacturer

Accolade II Stryker

Stelia stem Stemcup medical product

QUADRA Medacta
MiniHip Corin
Filler 3ND Biotechni

COLLO-MIS LimaCorporate
C-Stem AMT Total Hip System DePuy Synthes

BiContact Cementless Braun

Avenir Zimmer Biomet
Alloclassic Zweymuller SL Zimmer Biomet

Hip cups:

Versafit CC Trio Medacta RM pressfit Vitamys Mathys

POLARCUP™ Cemented Smith & Nephew

Plasmacup SC Braun

IP X-LINKed acetabular cup Waldemar Link
Exceed ABT Cup Zimmer Biomet
EcoFit Cementless Implantcast

Cenator Corin
aneXys Mathys
ANA.NOVA cup Implantec

Knee systems:

LCS Complete DePuy Synthes

NexGen CR

ACS Unc, Unicondylar

balanSys CR

Logic RBK

Optetrak CR

Sigma High Performance Partial Knee

Zimmer Biomet

Implantcast

Mathys

Exactech

Exactech

DePuy Synthes

TREKKING CR Samo

Vanguard CR Zimmer Biomet Innex Gender Zimmer Biomet

Appendix II: searches conducted

This document lists all the searches conducted for each device with screenshots showing exactly what was entered into the search database. The title of each section contains the device name and the date on which the search was conducted. The following table summarises the information by device.

Implant	Implant name	Date of search	Embase	Pubmed	Web of	N after	N other sources	N included
type					Science	deduplication		
hip	Accolade II	29/09/2021	48	21	25	73	0	12
stem								
hip	Alloclassic Zweymuller SL	20/09/2021	121	114	97	317	1	19
stem								
hip	Avenir	15/09/2021	20	11	51	80	1	4
stem								
hip	BiContact Cementless	05/10/2021	102	48	43	118	3	8
stem								
hip	COLLO-MIS	27/09/2021	3	0	0	3	1	2
stem								
hip	C-Stem AMT Total Hip	08/10/2021	69	31	34	80	0	2
stem	System							
hip	Filler 3ND	15/11/2021	0	0	0	0	1	1
stem								
hip	MiniHip	07/10/2021	17	9	19	27	1	8
stem								
hip	QUADRA	20/09/2021	28	4	24	53	1	7
stem								
hip	Stelia stem	15/11/2021	0	0	0	0	0	0
stem								
hip cup	ANA.NOVA cup	04/01/2021	5	2	29	33	0	2
hip cup	aneXys	30/12/2021	1	1	2	2	0	0
hip cup	Cenator	30/12/2021	2	0	0	2	0	0
hip cup	EcoFit Cementless	30/12/2021	13	4	3	14	0	0

hip cup	Exceed ABT Cup	30/12/2021	35	8	31	62	0	4
hip cup	IP X-LINKed acetabular	04/01/2022	14	3	37	50	0	0
	cup							
hip cup	Plasmacup SC	30/12/2021	62	13	12	65	1	9
hip cup	POLARCUP™ Cemented	30/12/2021	14	2	2	14	0	3
hip cup	Versafit CC Trio	30/12/2021	29	2	2	30	0	8
hip cup	RM pressfit vitamys	01/02/2022	24	15	19	30	0	8
knee	ACS Unc, Unicondylar	17/12/2021	6	9	7	12	0	0
knee	balanSys CR	12/10/2021	15	7	7	16	1	4
knee	Innex Gender	13/10/2021	22	8	10	25	0	0
knee	LCS Complete	18/12/2021	48	18	22	60	0	10
knee	Logic RBK	17/12/2021	77	136	78	241	0	4
knee	NexGen CR	14/10/2021	371	132	113	385	0	18
knee	Optetrak CR	08/12/2021	25	14	13	24	0	0
knee	Sigma High Performance	13/10/2021	37	7	7	44	0	3
	Partial Knee							
knee	TREKKING CR	14/10/2021	13	7	18	23	0	2
knee	Vanguard CR	14/10/2021	211	61	77	248	0	13
			1432	687	782	2131	11	151

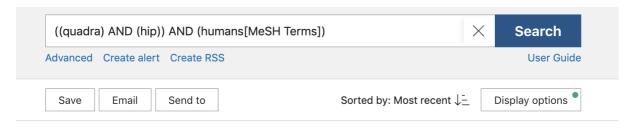
Hip stem searches

Quadra 20th September 2021

Embase: 28

▼ Search History (4)					Saved	
	# 🔺	Searches	Results	Туре	Actions	Annotations
	1	quadra.mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword heading word, floating subheading word, candidate term word]	379	Advanced	Display Results More ▼	\Box
	2	hip.mp. [mp-title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword heading word, floating subheading word, candidate term word]	237233	Advanced	Display Results More ▼	\Box
	3	1 and 2	32	Advanced	Display Results More ▼	\Box
	4	limit 3 to (human and (embase or medline))	28	Advanced	Display Results More ▼	\Box

PubMed: 4



4 results

Web of Science: 24

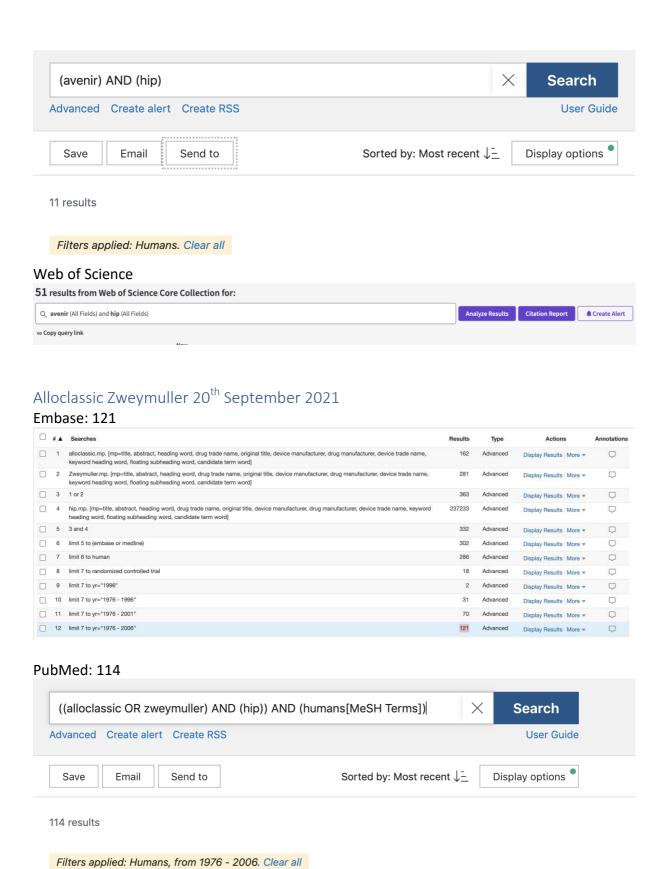
24 results from Web of Science Core Collection for: Q quadra (All Fields) and hip (All Fields) Copy query link

Avenir 15th September 2021

Embase: 20



PubMed: 11

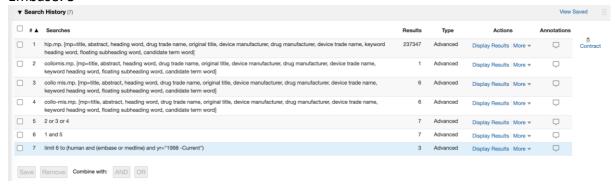


Web of Science: 97

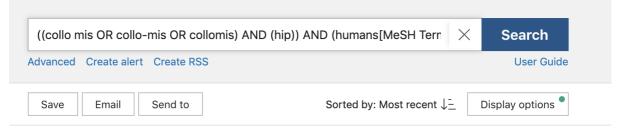


COLLO-MIS 27th September 2021

Embase: 3



PubMed: 0



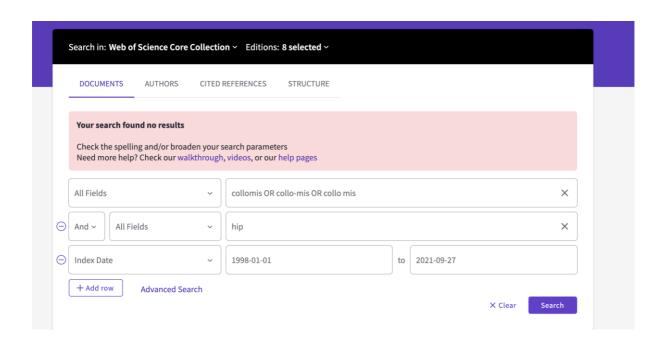
184 results

The following term was not found in PubMed: collo-mis

Showing results for ((collo mis OR collo-mis OR colloids) AND (hip)) AND (humans[MeSH Terms])

Your search for ((collo mis OR collo-mis OR collomis) AND (hip)) AND (humans[MeSH Terms]) retrieved no results

Web of Science: 0



Accolade II: 29th September 2021

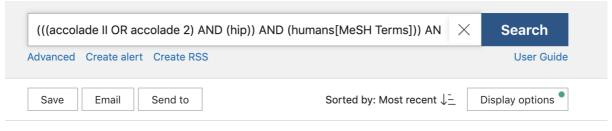
Embase: 48

(#1 was hip.mp, #2 was accolade II.mp, missing in image below)



PubMed: 21

(((accolade II OR accolade 2) AND (hip)) AND (humans[MeSH Terms])) AND (("2002/01/01"[Date - Publication] : "3000"[Date - Publication]))



21 results

Web of Science: 25

25 results from Science Citation Index Expanded (SCI-EXPANDED), Social Sciences Citation Index (SSCI), Arts & Humanities Citation Index (A&HCI), Book Citation Index – Science (BKCI-S), Book Citation Index – Social Sciences & Humanities (BKCI-SSH), Emerging Sources Citation Index (ESCI), Current Chemical Reactions (CCR-EXPANDED), Index Chemicus (IC):

Q accolade II OR accolade 2 (All Fields) and hip (All Fields) and 2002-2025 (Year Published)	Analyze Results	Citation Report	♠ Create Alert
Did you mean? accolades II OR accolades 2 (All Fields) and hip (All Fields) and 2002-2025 (Year Published) 24 results			

Bicontact: 5th October 2021

Embase: 102

	# ▲	Searches	Results	Type	Actions	Annotations	
	1	hip.mp. [mp-title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword heading word, floating subheading word, candidate term word]	237675	Advanced	Display Results More ▼	Q.	Contrac
	2	bicontact.mp. [mp-title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword heading word, floating subheading word, candidate term word]	124	Advanced	Display Results More ▼	\Box	
	3	bi-contact.mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword heading word, floating subheading word, candidate term word]	5	Advanced	Display Results More ▼	Q	
	4	2 or 3	128	Advanced	Display Results More ▼	\Box	
	5	1 and 4	126	Advanced	Display Results More ▼	\Box	
1	6	limit 5 to (human and (embase or medline) and yr="1978 - 2018")	102	Advanced	Display Results More ▼	Q	

PubMed: 48

(((bi-contact OR bicontact) AND (hip)) AND (humans[MeSH Terms])) AND (("1978"[Date - Publication] : "2018"[Date - Publication]))



48 results

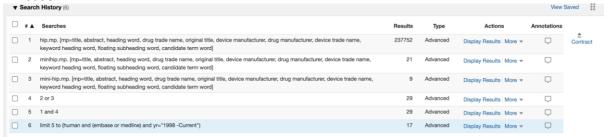
Web of Science: 43

43 results from Science Citation Index Expanded (SCI-EXPANDED), Social Sciences Citation Index (SSCI), Arts & Humanities Citation Index (A&HCI), Book Citation Index – Science (BKCI-S), Book Citation Index – Social Sciences & Humanities (BKCI-SSH), Emerging Sources Citation Index (ESCI), Current Chemical Reactions (CCR-EXPANDED), Index Chemicus (IC):

Q bicontact OR bi-contact (All Fields) and hip (All Fields) and 1988-2018 (Year Published)		Citation Report	Create Alert
Did you mean? biocontact OR bi-contact (All Fields) and hip (All Fields) and 1988-2018 (Year Published) 12 results			
- Cany arran Halv			

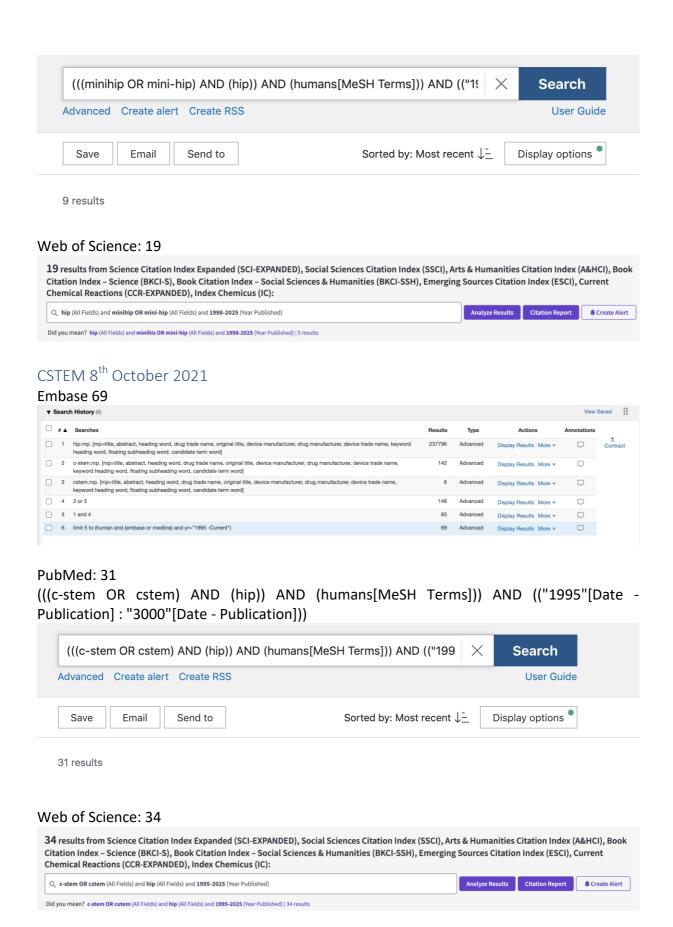
Minihip 7th October 2021

Embase: 17



PubMed: 9

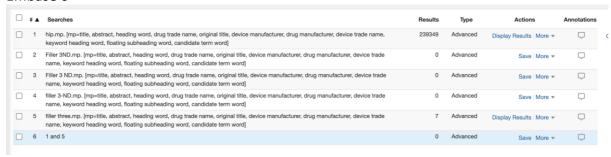
(((minihip OR mini-hip) AND (hip)) AND (humans[MeSH Terms])) AND (("1998"[Date - Publication]: "3000"[Date - Publication]))



Filler 3ND 15th November 2021

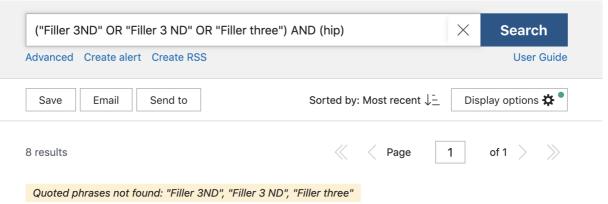
Searches were not restricted by date or to humans as no results were returned)

Embase 0



PubMed: 0

It returns 8 but none of them include the phrases.

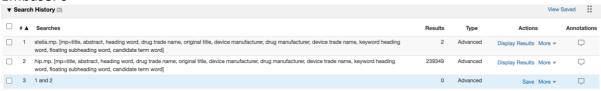


Web of Science: 0

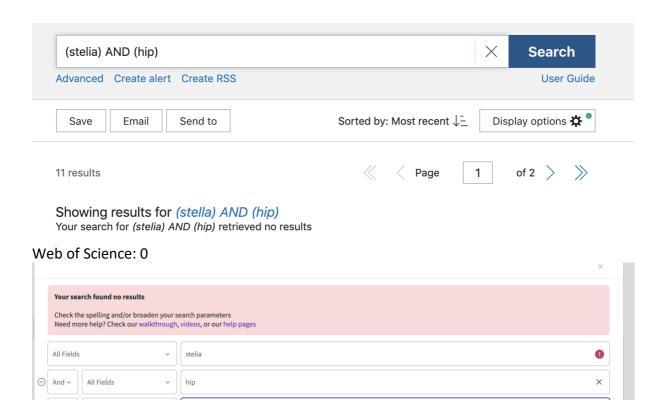


Stelia 15th November 2021

Embase: 0

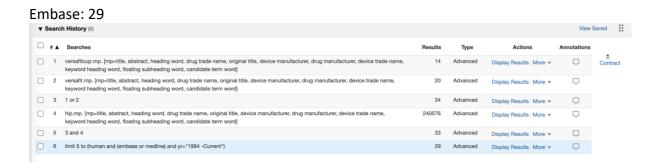


PubMed: 0

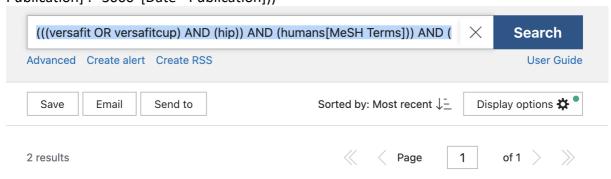


Cup searches

Versafit 30th December 2021



PubMed: 2 (((versafit OR versafitcup) AND (hip)) AND (humans[MeSH Terms])) AND (("1994"[Date - Publication] : "3000"[Date - Publication]))



Web of Science: 2

2 results from Science Citation Index Expanded (SCI-EXPANDED), Social Sciences Citation Index (SSCI), Arts & Humanities Citation Index (A&HCI), Book Citation Index – Science (BKCI-S), Book Citation Index (ESCI), Current Chemical Reactions (CCR-EXPANDED), Index Chemicus (IC):

Q. versafit OR versafitcup (All Fields) and ip (All Fields) and 1994-2025 (Year Published)

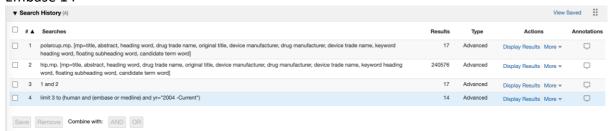
Analyze Results

Citation Report

A Create Alert

Polar cup cemented 30th December 2021

Embase 14



PubMed: 2

(((polarcup) AND (hip)) AND (humans[MeSH Terms])) AND (("2004"[Date - Publication] : "3000"[Date - Publication]))

(((polaro	cup) AND (hi	p)) AND (hı	umans[MeSH Terms])) AND (("2004"[Date	X	Search
Advanced	Create alert	Create RSS			User Guide
Save Email Send to Sorted by: Most recent \$\frac{1}{-}\$			Dis	play options 🗱 🍍	
2 results			≪ < Page	1	of 1 > >>

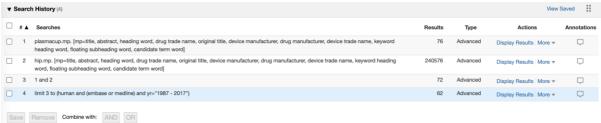
Web of Science: 2

2 results from Science Citation Index Expanded (SCI-EXPANDED), Social Sciences Citation Index (SSCI), Arts & Humanities Citation Index (A&HCI), Book Citation Index – Science (BKCI-S), Book Citation Index – Social Sciences & Humanities (BKCI-SSH), Emerging Sources Citation Index (ESCI), Current Chemical Reactions (CCR-EXPANDED), Index Chemicus (IC):

(CCR-EXPANDED), Index Chemicus (IC):			
Q polarcup (All Fields) and hip (All Fields) and 2004-2025 (Year Published)	Analyze Results	Citation Report	♠ Create Alert
∞ Copy query link			

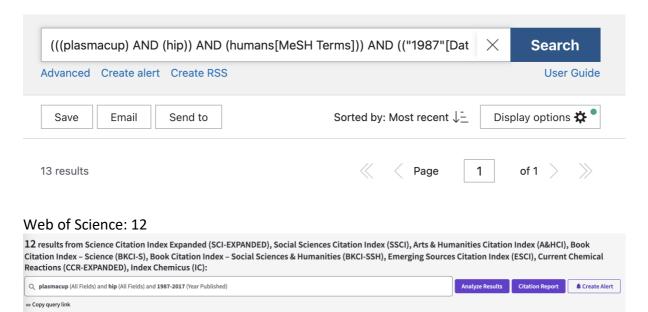
Plasmacup 30th December 2021

Embase: 62



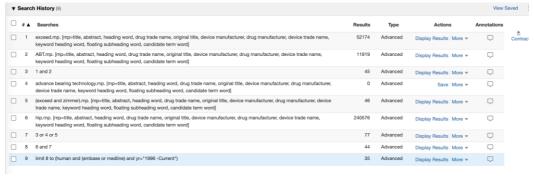
PubMed: 13

(((plasmacup) AND (hip)) AND (humans[MeSH Terms])) AND (("1987"[Date - Publication] : "2017"[Date - Publication]))



Exceed ABT 30th December 2021

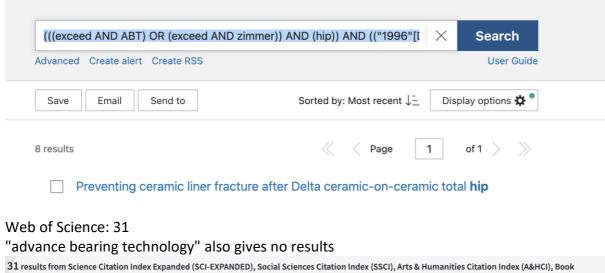
Embase 35



PubMed: 8

"advance bearing technology" does not match anything so pubmed changes the search to not quote it. It was therefore not searched.

(((exceed AND ABT) OR (exceed AND zimmer)) AND (hip)) AND (("1996"[Date - Publication] : "2025"[Date - Publication]))



Citation Index – Science (BKCI-S), Book Citation Index – Social Sciences & Humanities (BKCI-SSH), Emerging Sources Citation Index (ESCI), Current Chemical Reactions (CCR-EXPANDED), Index Chemicus (IC):

Q. (exceed AND ABT) OR (exceed AND zimmer) (All Fields) and hip (All Fields) and 1996-2025 (Year Published)

Analyze Results

Citation Report

A Create Alert

Copy query link

Publications

You may also like...

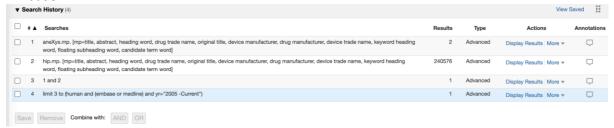
Refine results

0/31 Add To Marked List

Export
Sort by: Relevance
4 1 of 1 >

Anexys 30th December 2021

Embase: 1



PubMed: 1

(((anexys) AND (hip)) AND (humans[MeSH Terms])) AND (("2005"[Date - Publication] : "3000"[Date - Publication]))



Web of Science: 2

One of them is the one from pubmed and embase

2 results from Science Citation Index Expanded (SCI-EXPANDED), Social Sciences Citation Index (SSCI), Arts & Humanities Citation Index (A&HCI), Book Citation Index – Science (BKCI-S), Book Citation Index – Social Sciences & Humanities (BKCI-SSH), Emerging Sources Citation Index (ESCI), Current Chemical Reactions (CCR-EXPANDED), Index Chemicus (IC):

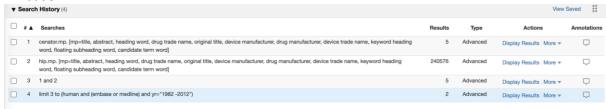
Q anexys (All Fields) and hip (All Fields) and 2005-2025 (Year Published)

Analyze Results

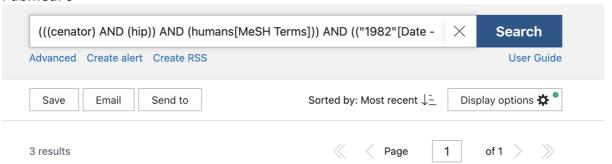
Citation Report

Cenator 30th December 2021

Embase: 2



PubMed: 0



Showing results for (((senator) AND (hip)) AND (humans[MeSH Terms])) AND (("1982" [Date - Publication] : "2012"[Date - Publication]))

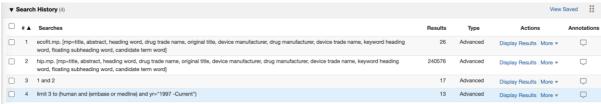
Your search for (((cenator) AND (hip)) AND (humans[MeSH Terms])) AND (("1982"[Date - Publication] : "2012" [Date - Publication])) retrieved no results

Web of Science: 0



Ecofit 30th December 2021

Embase: 13



PubMed: 4 (((ecofit) AND (hip)) AND (humans[MeSH Terms])) AND (("1997"[Date - Publication] : "3000"[Date - Publication])) (((ecofit) AND (hip)) AND (humans[MeSH Terms])) AND (("1997"[Date - Pu Search Advanced Create alert Create RSS **User Guide** Display options 🌣 ullet Save Email Send to Sorted by: Most recent $\downarrow \underline{\overline{}}$ 4 results Page of 1 Ontimisation of the drill-in behaviour of the **FcoFit** SC threaded cun Web of Science: 3 3 results from Science Citation Index Expanded (SCI-EXPANDED), Social Sciences Citation Index (SSCI), Arts & Humanities Citation Index (A&HCI), Book Citation Index - Science (BKCI-S), Book Citation Index - Social Sciences & Humanities (BKCI-SSH), Emerging Sources Citation Index (ESCI), Current Chemical Reactions (CCR-EXPANDED), Index Chemicus (IC): Q ecofit (All Fields) and hip (All Fields) and 1997-2025 (Year Published) Link IP 4th Jan 2022 Embase: 14 ▼ Search History View Saved ☐ # ▲ Searches heading word, floating subheading word, candidate term word] 2 hip.mp. [mp=title, abstract, heading word, drug trade name, original title, d pating subheading word, candidate term word] 3 1 and 2 4 limit 3 to (human and (embase or medline) and yr="2000 -Current") PubMed: 3 (((Link AND IP) AND (hip)) AND (humans[MeSH Terms])) AND (("2000"[Date - Publication] : "3000"[Date - Publication])) (((Link AND IP) AND (hip)) AND (humans[MeSH Terms])) AND (("2000"[Da Search

Advanced Create alert Create RSS **User Guide** Display options 🌣 $^{\bullet}$ Sorted by: Most recent $\downarrow =$ Email Save Send to 3 results Page of 1 Web of Science: 37 37 results from Science Citation Index Expanded (SCI-EXPANDED), Social Sciences Citation Index (SSCI), Arts & Humanities Citation Index (A&HCI), Book Citation Index - Science (BKCI-S), Book Citation Index - Social Sciences & Humanities (BKCI-SSH), Emerging Sources Citation Index (ESCI), Current Chemical Reactions (CCR-EXPANDED), Index Chemicus (IC): Analyze Results Citation Report Create Alert Q Link AND IP (All Fields) and hip (All Fields) and 2000-2025 (Year Published)

ANA.NOVA 4th Jan 2022

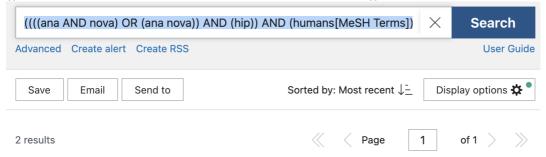
Embase: 5

▼ S	earc	h History (7)				View	Saved
	# 🛦	Searches	Results	Туре	Actions	Annotations	
	1	(ana and nova).mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword heading word, floating subheading word, candidate term word]	79	Advanced	Display Results More ▼	\Box	Contra
	2	"ana.nova".mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword heading word, floating subheading word, candidate term word]	3	Advanced	Display Results More ▼	\Box	
	3	'alpha cup'.mp. [mp-title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword heading word, floating subheading word, candidate term word]	2	Advanced	Display Results More ▼	\Box	
	4	1 or 2 or 3	84	Advanced	Display Results More ▼	\Box	
	5	hip.mp. [mp-title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword heading word, floating subheading word, candidate term word]	240988	Advanced	Display Results More ▼	\Box	
	6	4 and 5	9	Advanced	Display Results More ▼	\Box	
	7	limit 6 to (human and (embase or medline) and yr="2003 -Current")	5	Advanced	Display Results More ▼	\Box	

PubMed: 2

"alpha cup" not found

((((ana AND nova) OR (ana nova)) AND (hip)) AND (humans[MeSH Terms])) AND (("2003"[Date - Publication] : "3000"[Date - Publication]))



Web of Science: 29

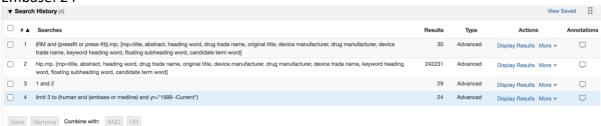
RM pressfit vitamys 22nd Jan 2022

(Mathys)

Just searched RM pressfit as vitamys is a particular type

CE-marking date from Olga in "Re: Update and another question" of 2009

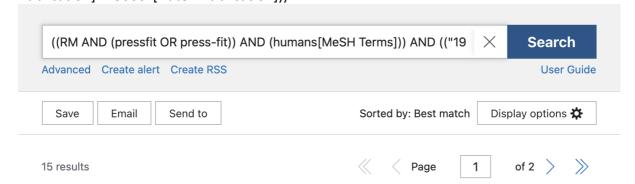
Embase: 24



[&]quot;ana.nova" not found

PubMed: 15

((RM AND (pressfit OR press-fit)) AND (humans[MeSH Terms])) AND (("1999"[Date - Publication]: "3000"[Date - Publication]))



Web of Science: 19

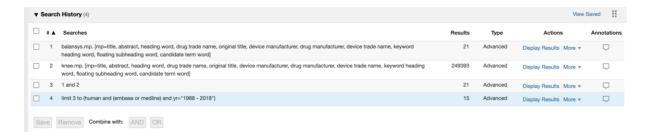
19 results from Science Citation Index Expanded (SCI-EXPANDED), Social Sciences Citation Index (SSCI), Arts & Humanities Citation Index (A&HCI), Book Citation Index – Science (BKCI-S), Book Citation Index – Social Sciences & Humanities (BKCI-SSH), Emerging Sources Citation Index (ESCI), Current Chemical Reactions (CCR-EXPANDED), Index Chemicus (IC):

Q (((ALL=(pressfit OR press-fit)) AND ALL=(hip)) AND PY=(1999-2025)) AND ALL=(RM)	Analyze Results	Citation Report	♠ Create Alert
Did you mean? (((ALL=(pressfits OR press-fit)) AND ALL=(hip)) AND PY=(1999-2025)) AND ALL=(RM) 10 results			
∞ Copy query link			

Knee searches

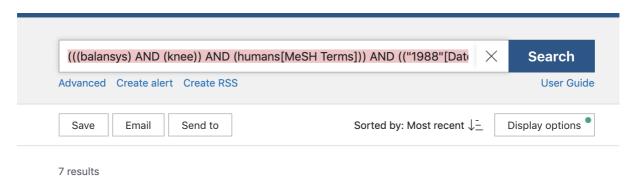
Balansys CR 12th October 2021

Embase: 15



PubMed: 7

(((balansys) AND (knee)) AND (humans[MeSH Terms])) AND (("1988"[Date - Publication] : "3000"[Date - Publication]))



Web of Science: 7

7 results from Science Citation Index Expanded (SCI-EXPANDED), Social Sciences Citation Index (SSCI), Arts & Humanities Citation Index (A&HCI), Book Citation Index – Science (BKCI-S), Book Citation Index – Social Sciences & Humanities (BKCI-SSH), Emerging Sources Citation Index (ESCI), Current Chemical Reactions (CCR-EXPANDED), Index Chemicus (IC):

Q knee (All Fields) and balansys (All Fields) and 1988-2018 (Year Published)

Analyze Results

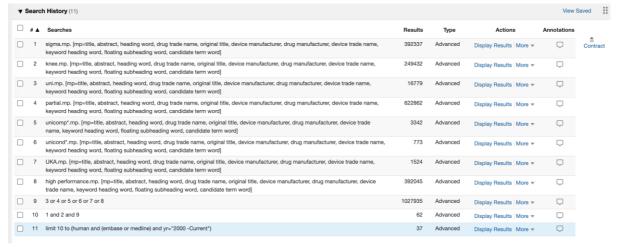
Citation Report

A Create Alert

Did you mean? knee (All Fields) and balances (All Fields) and 1988-2018 (Year Published) | 4,745 results

Sigma high performance partial knee 13th October

Embase: 37



PubMed: 7

((((knee) AND (uni OR UKA OR unicomp* OR unicond* OR "high performance")) AND (sigma)) AND (humans[MeSH Terms])) AND (("2000"[Date - Publication])) = "3000"[Date - Publication]))

((((knee) AND (uni OR UKA OF	× Search	
Advanced Create alert Create RS	S	User Guide
Save Email Send to	Sorted by: Most recent $\downarrow \frac{1}{-}$	Display options

7 results

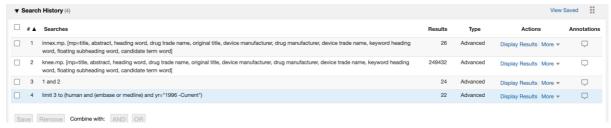
Web of Science: 7

7 results from Science Citation Index Expanded (SCI-EXPANDED), Social Sciences Citation Index (SSCI), Arts & Humanities Citation Index (A&HCI), Book Citation Index – Science (BKCI-S), Book Citation Index – Social Sciences & Humanities (BKCI-SSH), Emerging Sources Citation Index (ESCI), Current Chemical Reactions (CCR-EXPANDED), Index Chemicus (IC):



Innex 13th October 2021

Embase: 22



PubMed: 8

(((innex) AND (knee)) AND (humans[MeSH Terms])) AND (("1996"[Date - Publication] : "3000"[Date - Publication]))



8 results

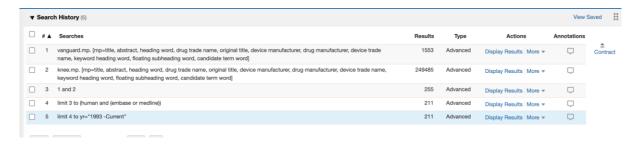
Web of Science: 10

10 results from Science Citation Index Expanded (SCI-EXPANDED), Social Sciences Citation Index (SSCI), Arts & Humanities Citation Index (A&HCI), Book Citation Index – Science (BKCI-S), Book Citation Index – Social Sciences & Humanities (BKCI-SSH), Emerging Sources Citation Index (ESCI), Current Chemical Reactions (CCR-EXPANDED), Index Chemicus (IC):

CHEMICAL REACTIONS (CCR-EAFAINDED), INDEX CHEMICAS (IC).			
C, knee (All Fields) and innex (All Fields) and 1996-2025 (Year Published)	Analyze Results	Citation Report	♣ Create Alert
Did you mean? knee (All Fields) and index (All Fields) and 1996-2025 (Year Published) 18,019 results			
∞ Copy query link			

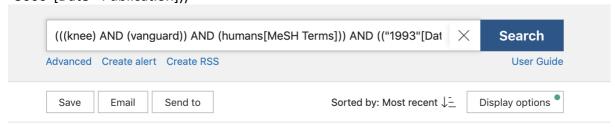
Vanguard 14th October 2021

Embase: 211



PubMed: 61

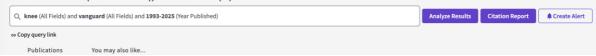
(((knee) AND (vanguard)) AND (humans[MeSH Terms])) AND (("1993"[Date - Publication] : "3000"[Date - Publication]))



61 results

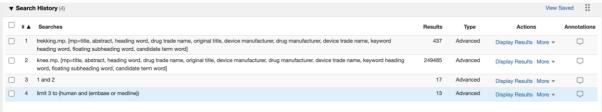
Web of Science: 77

77 results from Science Citation Index Expanded (SCI-EXPANDED), Social Sciences Citation Index (SSCI), Arts & Humanities Citation Index (A&HCI), Book Citation Index – Science (BKCI-S), Book Citation Index – Social Sciences & Humanities (BKCI-SSH), Emerging Sources Citation Index (ESCI), Current Chemical Reactions (CCR-EXPANDED), Index Chemicus (IC):



Trekking CR 14th October 2021

Embase: 13



PubMed: 7

((trekking) AND (knee)) AND (humans[MeSH Terms])



7 results

Web of Science: 18

18 results from Science Citation Index Expanded (SCI-EXPANDED), Social Sciences Citation Index (SSCI), Arts & Humanities Citation Index (A&HCI), Book Citation Index – Science (BKCI-S), Book Citation Index – Social Sciences & Humanities (BKCI-SSH), Emerging Sources Citation Index (ESCI), Current Chemical Reactions (CCR-EXPANDED), Index Chemicus (IC):

Analyze Results

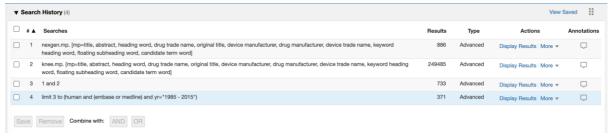
Citation Report

A Create Alert

https://www.webofscience.com/wos/woscc/summary/04743834-f0f0-4c2d-b0bd-3c4490712c5f-0d1361c5/relevance/1

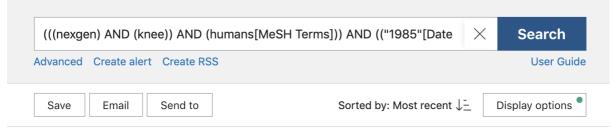
Nexgen 14th October 2021

Embase: 371



PubMed: 132

(((nexgen) AND (knee)) AND (humans[MeSH Terms])) AND (("1985"[Date - Publication] : "2015"[Date - Publication]))



132 results

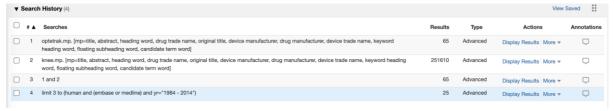
Web of Science: 113

113 results from Science Citation Index Expanded (SCI-EXPANDED), Social Sciences Citation Index (SSCI), Arts & Humanities Citation Index (A&HCI), Book Citation Index – Science (BKCI-S), Book Citation Index – Social Sciences & Humanities (BKCI-SSH), Emerging Sources Citation Index (ESCI), Current Chemical Reactions (CCR-EXPANDED), Index Chemicus (IC):

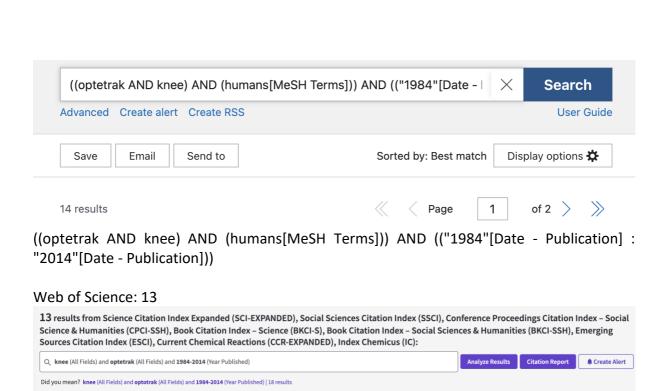
Q. knee (All Fields) and nexgen (All Fields) and 1985-2015 (Year Published)	Analyze Results	Citation Report	♠ Create Alert
∞ Copy query link			

Optetrak CR 8th December

Embase: 25

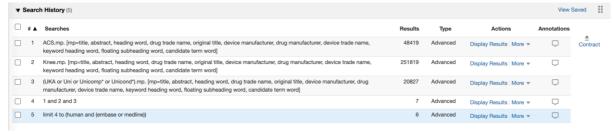


PubMed: 14

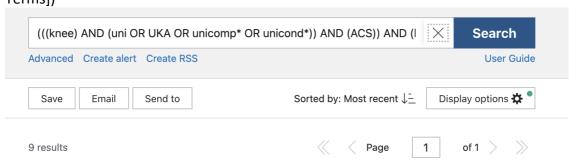


ACS unc 17th Dec 2021

Embase: 6



PubMed: 9 (((knee) AND (uni OR UKA OR unicomp* OR unicond*)) AND (ACS)) AND (humans[MeSH Terms])



Web of Science: 7

7 results from Science Citation Index Expanded (SCI-EXPANDED), Social Sciences Citation Index (SSCI), Arts & Humanities Citation Index (A&HCI), Book Citation Index – Science (BKCI-S), Book Citation Index – Social Sciences & Humanities (BKCI-SSH), Emerging Sources Citation Index (ESCI), Current Chemical Reactions (CCR-EXPANDED), Index Chemicus (IC):

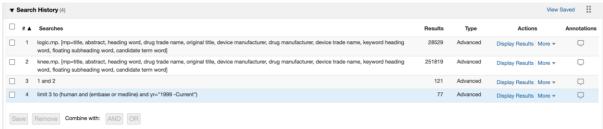
Q knee (All Fields) and uni OR UKA OR unicomp* OR unicond* (All Fields) and ACS (All Fields)

Analyze Results

Citation Report

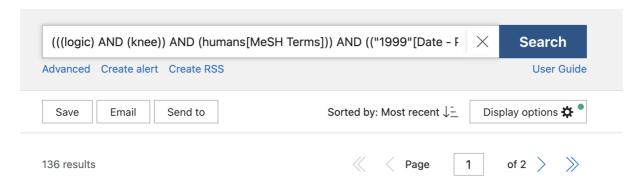
Logic Exactech 17th December 2021

Embase: 77



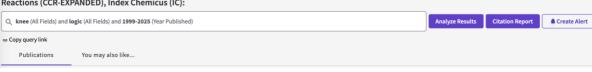
PubMed: 136

(((logic) AND (knee)) AND (humans[MeSH Terms])) AND (("1999"[Date - Publication] : "3000"[Date - Publication]))



Web of Science: 78

78 results from Science Citation Index Expanded (SCI-EXPANDED), Social Sciences Citation Index (SSCI), Arts & Humanities Citation Index (A&HCI), Book Citation Index - Science (BKCI-S), Book Citation Index - Social Sciences & Humanities (BKCI-SSH), Emerging Sources Citation Index (ESCI), Current Chemical Reactions (CCR-EXPANDED), Index Chemicus (IC):



LCS complete 18th December 2021

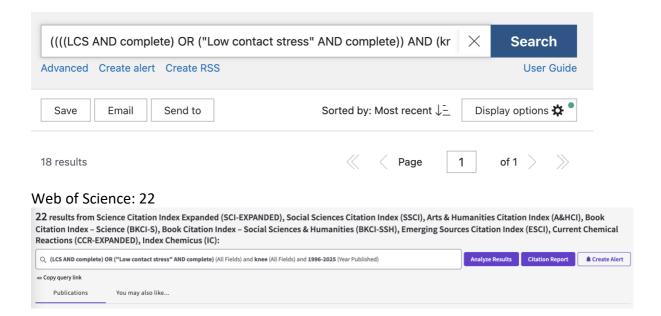
Embase:

▼ Search History (6)							
# 🛦	Searches	Results	Туре	Actions	Annotations		
	(LCS and complete).mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword heading word, floating subheading word, candidate term word]	278	Advanced	Display Results More •	\Box	Contract	
	("Low Contact Stress" and complete).mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword heading word, floating subheading word, candidate term word]	20	Advanced	Display Results More ▼	\Box		
3 1	1 or 2	285	Advanced	Display Results More ▼	\Box		
-	knee.mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword heading word, floating subheading word, candidate term word]	251829	Advanced	Display Results More ▼	\Box		
5 3	3 and 4	54	Advanced	Display Results More ▼	\Box		
6 1	limit 5 to (human and (embase or medline) and yr="1996 -Current")	48	Advanced	Display Results More ▼	\Box		

PubMed: 18

((((LCS AND complete) OR ("Low contact stress" AND complete)) AND (knee)) AND (humans[MeSH Terms])) AND (("1996"[Date - Publication]: "3000"[Date - Publication]))

48



Appendix III: List of data items that were collected

Devices

The following information will be included for each device included in the study.

- Name of device
- Manufacturer
- Implant reference number, if available
- Date of CE approval
- Date of FDA approval
- Date of first use (ODEP)

Procedure:

For knee arthroplasty:

- Stability: Cruciate ligament preserved (yes/no), Medial Pivot design, other or not recorded
- Mobility: fixed bearing /mobile bearing/ or not recorded
- Fixation (all cemented/all uncemented/other) or not recorded
- Patella resurfaced (yes/no) or not recorded

For to hip arthroplasty:

- Fixation of stem/cup (cemented yes/no) or not recorded
- Type of bearing surface or not recorded

Associated stem/cup (free text)

Fixation associated (free text)

Type of bearing or not recorded (yes/no)

Papers

This section details the data that will be extracted from each paper identified in our literature search. We will not contact authors of papers for additional information not present in the papers because we are interested in assessing the published evidence rather than evidence that may have been generated but is not published.

Meta-data:

- First author
- Date of publication (first available online if available)
- Date publication first available
- Submission (or publication) before /after CE mark date
- Submission (or publication) before /after FDA approval date
- Journal
- Study location(s) (continent)
- First and last year of recruitment

Objective (free text, copied from paper)

Key finding (free text, copied from paper)

Study characteristics

- Study type (cohort, registry-based cohort, case control, randomised controlled trial, case series or reports)
- Retrospective, prospective, both elements
- Population-based or specific population (e.g. young patients only)
- Real-world or experimental setting
- Comparative study (yes/no)
- Which comparison implant/group (e.g. established vs. new)
- Study aim (superiority/non-inferiority)
- Randomisation (yes/no)
- Blinding (select from: participant, investigator, outcome assessor)
- Type of RCT (registry-nested, other)
- Clinical trial registration ID provided (yes/no)

Patient characteristics

- Number in study
- Number in device in question arm
- Age (mean/median)
- Women (%)
- Diagnostic (% primary OA)

Investigators and sponsors:

- Author affiliations (academic, industry, mix)

Outcomes reported:

- All-cause revision as outcome (yes/no)
 - Revision rate at x years (upper CI, lower CI)
- Imaging (yes/no) if yes, which method
 - Radiograph
 - CT
 - MRI
 - EOS
 - RSA
 - Migration (yes/no)
 - Osteolysis (yes/no)
 - Other (yes/no)
- Patient reported outcome measures (yes/no)
 - Oxford knee score (yes/no)
 - Knee Injury and Osteoarthritis Outcome Score (KOOS) (yes/no)
 - Oxford hip score (yes/no)
 - Hip disability and osteoarthritis outcome score (HOOS) (yes/no)
 - WOMAC (yes/no)
 - EQ-5D (yes/no)
 - SF-36/SF-12 (yes/no)
- Performance (yes/no)
 - Gait (yes/no)
 - Flexion (yes/no)
 - Posterior stability (yes/no)

Other (yes/no)

Are analyses stratified or outcomes presented by gender (yes/no) Are analyses stratified or outcomes presented by age (yes/no)

Safety:

- Did paper report safety concerns? (yes/potential/no) if yes, which:
 - Higher revision rate
 - Imaging abnormality
 - Inferior clinical results
 - o PROMS
 - o Biomechanical

Safety concern reported in which section of paper (e.g. abstract, discussion)

We will also record

- Mean and max. length of follow-up
- Adverse events/complications
 - Infection (N and %)
 - Dislocation (N and %)
 - Fracture (N and %)
 - Thromboembolic event (N and %)
 - Myocardial infarction (N and %)
- Mortality (N and %)

Risk of bias

Attrition

- Lost to follow-up (N and % [per group if comparative])
 - Reasons for loss mentioned yes/no

Information bias

- Exposure identification = Procedure (see above) details provided yes/no
- Outcome definition provided yes/no
- Response rate PROs (see above)

Selection bias in observational comparative studies (for RCTs bias assessed above)

Measures used to reduce bias yes/no and which: Adjustment/Restriction/Matching

All-cause revision

The following will be extracted per device:

- Number of devices included
- Total number of observed events
- Timing of measurement (all time points available)
- Point estimates (cumulative incidence of revision or cumulative survival)
- Confidence intervals