推奨作成関連資料 9

■JIA CQ1(JIA 少関節炎型·多関節炎型 1)

■JIA CQ2(JIA 少関節炎型・多関節炎型 2)

■JIA CQ3(JIA 少関節炎型·多関節炎型 3)

■JIA CQ4(JIA 少関節炎型·多関節炎型 4)

■JIA CQ5(JIA 少関節炎型·多関節炎型 5)

■JIA CQ6(JIA 少関節炎型·多関節炎型 6)

※タイトルクリックで該当ページに移動します.

No.	検索式	検索件数
#1	(arthritis, juvenile[MeSH Terms]) OR	11,682
# 1	(arthritis, juvenile[Title/Abstract])	11,002
#2	(((polyarthritis[MeSH Terms]) OR (pauciarthritis[MeSH Terms])) OR	291,695
#∠	(oligoarthritis[MeSH Terms])) OR (monoarthritis[MeSH Terms])	291,095
	polyarthritis[Title/Abstract] OR	
#3	pauciarthritis[Title/Abstract] OR	11 111
#3	oligoarthritis[Title/Abstract] OR	11,114
	monoarthritis[Title/Abstract]	
#4	(#2) OR (#3)	293,749
#5	(#1) AND (#4)	11,567
#6	"methotrexate "[MeSH Terms] OR "methotrexate"[Title/Abstract]	59,674
#7	(#5) AND (#6)	953
#8	(#5) AND (#6) Filters from2021/1/1 - 2022/12/31	80

データベース: PubMed, ~2022/12/31

No.	検索式	検索件数
#1	Mesh descriptor: [Arthritis, Juvenile] explode all trees	379
#2	(arthritis, juvenile):ti,ab,kw	1,018
#3	#1 or #2	1,018
#4	MeSH descriptor: [Methotrexate] explode all trees	4,737
#5	("methotrecate"):ti,ab,kw	12,676
#6	#4 or #5	12,676
#7	#3 and #6	257
#8	#7 Custom Range: 2021/1/1 - 2022/12/31	19

データベース: Cochrane, ~2022/12/31

資料A JIA CQ1 文献検索式(医中誌)

No.	検索式	検索件数
#1	関節炎-若年性/TH or 若年性特発性関節炎/AL	3,762
#2	関節型/AL or 少関節/AL or 多関節/AL	2,203
#3	#1 and #2	402
#4	Methotrexate/TH or メトトレキサート/AL	22,894
#5	#3 and #4	118
#6	(#5) and (PT=会議録除く)	85
#7	(#6) and (DT=2021/1/1:2022/12/31)	9

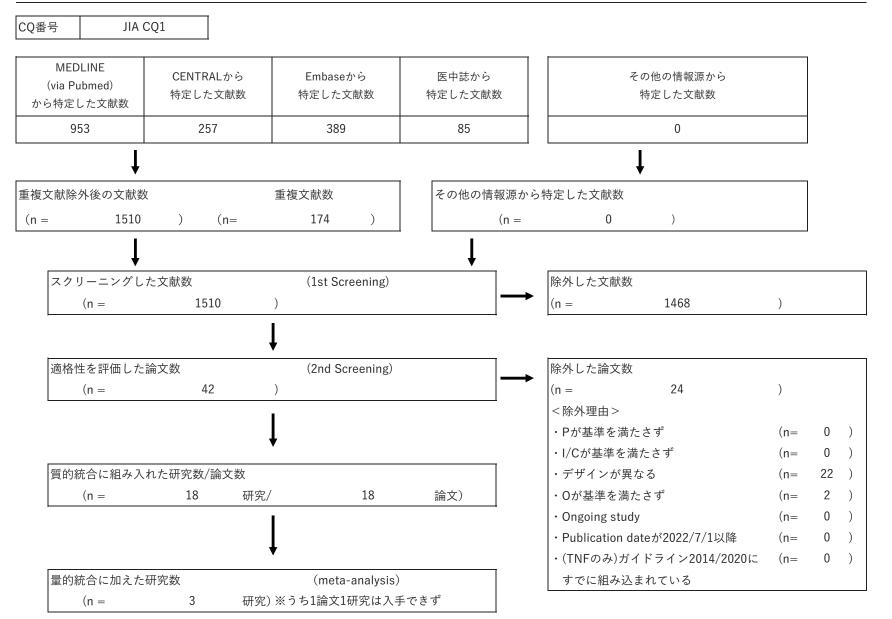
データベース:医中誌,~2022/12/31

No.	検索式	検索件数
1	('arthritis, juvenile'/exp OR 'arthritis, juvenile':ti,ab,kw) AND ([english]/lim OR [japanese]/lim) AND [abstracts]/lim	16,374
2	(polyarthritis:ti,ab,kw OR pauciarthritis:ti,ab,kw OR oligoarthritis:ti,ab,kw OR monoarthritis:ti,ab,kw) AND ([english]/lim OR [japanese]/lim) AND [abstracts]/lim	137,559
3	methotrexate AND ([english]/lim OR [japanese]/lim) AND [abstracts]/lim	8,040
4	(('arthritis, juvenile'/exp OR 'arthritis, juvenile':ti,ab,kw) AND ([english]/lim OR [japanese]/lim) AND [abstracts]/lim) AND ((polyarthritis:ti,ab,kw OR pauciarthritis:ti,ab,kw OR oligoarthritis:ti,ab,kw OR monoarthritis:ti,ab,kw) AND ([english]/lim OR [japanese]/lim) AND [abstracts]/lim) AND (methotrexate AND ([english]/lim OR [japanese]/lim) AND [abstracts]/lim)	

データベース: Embase, ~2020/12/28

検索日 2020/12/28

資料B JIA CQ1 文献検索フローチャート

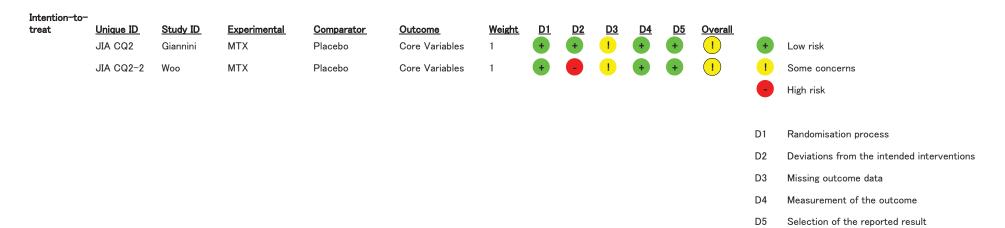


<u>資料C JIA CQ1 バイアスのリスク(活動関節数)</u>

Intention-to-														
treat	Unique ID	Study ID	Experimental	Comparator	Outcome	Weight	<u>D1</u>	<u>D2</u>	D3	<u>D4</u>	D5	Overall		
	JIA CQ1	Giannini	MTX	Placebo	Number of joints with active arthritis	NA	+	+	!	+	+	!	+	Low risk
	JIA CQ1-2	Woo	MTX	Placebo	Number of joints with active arthritis	1	+	•	!	+	+	!	!	Some concerns
													•	High risk

- D1 Randomisation process
- D2 Deviations from the intended interventions
- D3 Missing outcome data
- D4 Measurement of the outcome
- D5 Selection of the reported result

資料C JIA CQ1 バイアスのリスク(ACR Pedi 30に類似した治療効果複合指標)



資料C JIA CQ1 バイアスのリスク(Limited joint range score)

Intention-to- treat	Unique ID JIA CQ3 JIA CQ3-2	<u>Studv ID</u> Giannini Woo	<u>Experimental</u> MTX MTX	<u>Comparator</u> Placebo Placebo	<u>Outcome</u> Limited joint range score Limited joint range score	<u>D1</u> + +	<u>D2</u> +	<u>D3</u> ! !	<u>D4</u> + +	<u>D5</u> + +	Overall ! !	+ ! -	Low risk Some concerns High risk
												D1	Randomisation process
												D2	Deviations from the intended interventions
												D3	Missing outcome data

- D4 Measurement of the outcome
- D5 Selection of the reported result

資料C JIA CQ1 バイアスのリスク(Toxicity)

Intention-to- treat	<u>Unique ID</u> JIA CQ5	<u>Study ID</u> Giannini	Experimental MTX	<u>Comparator</u> Placebo	<u>Outcome</u> Toxicity	<u>Weight</u> 1	<u>D1</u> +	<u>D2</u> +	<u>D3</u> +	<u>D4</u> +	<u>D5</u> +	Overall +	•	Low risk Some concerns High risk
													D1	Randomisation process
													D2	Deviations from the intended interventions
													D3	Missing outcome data
													D4	Measurement of the outcome
													D5	Selection of the reported result

資料C JIA CQ1 バイアスのリスク(薬剤継続割合)



資料 D JIA CQ1 エビデンスプロファイル Question: MTXpo compared to none/PBO

			Certainty ass	essment			Nº of p	atients	Effe	ct		
Nº of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	МТХро	none/PBO	Relative (95% Cl)	Absolute (95% CI)	Certainty	Importance

Outcomes used for the recommendation

活動関節数

2	randomised not serious trials	not serious	serious ^a	serious ^b	none	117	81	-	MD 1.96 lower (5.24 lower to 1.32 higher)		CRITICAL
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ACR Pedi 30 に類似した治療効果複合指標

to 585 more)	2	randomised trials	not serious	not serious	serious ^a	seriousc	none	56/118 (47.5%)	22/82 (26.8%)	RR 1.73 (0.94 to 3.18)	196 more per 1,000 (from 16 fewer to 585 more)		CRITICAL
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Limited joint range score

2	randomised trials	not serious	serious₫	serious ^a	serious ^b	none	99	63	-	MD 0.67 lower (6.31 lower to 4.97 higher)		CRITICAL	
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Toxicity

1	randomised trials	not serious	not serious	seriousa	very serious ^e	none	14/86 (16.3%)	5/41 (12.2%)	RR 1.33 (0.52 to 3.45)	40 more per 1,000 (from 59 fewer to 299 more)		CRITICAL	
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薬剤継続割合

1	randomised trials	not serious	not serious	serious ^a	serious ^r	none	74/86 (86.0%)	34/41 (82.9%)	RR 1.04 (0.88 to 1.22)	33 more per 1,000 (from 100 fewer to 182 more)		CRITICAL
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CI: confidence interval; MD: mean difference; RR: risk ratio

Explanations

a. s-JIA in Giannini1992

b. 95% CI of MD probably crosses one of the MID c. 95% CI of RR crosses 1.25 of the decision threshold.

d. The results of the two studies are in different directions.

e. 95% CI of RR crosses both 0.75 and 1.25 of the decision thresholds.

f. small sample size

Outcomes used for the recommendation

活動関節数

		MTX			Placebo			Mean difference		Mean				
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI		IV, Rand	dom,	95% C		_
Giannini EH 1992	-6.365333	14.204933	75	-5.2	9.367497	39	56.7%	-1.17 [-5.52 , 3.19]		_				
Woo P 2000	-3	11.665333	42	0	11.665333	42	43.3%	-3.00 [-7.99 , 1.99]	-		-	-01		
Total (95% CI)			117			81	100.0%	-1.96 [-5.24 , 1.32]		-				
Heterogeneity: Tau ² =	0.00; Chi ² =	0.29, df = 1	(P = 0.59)	; I² = 0%										
Test for overall effect:	Z = 1.17 (P =	= 0.24)							-10	-5	ò	5	10	0
Test for subgroup diffe	erences: Not	applicable								urs [MTX]	F 0	Favou	rs [Place	- TSA

ACR Pedi 30 に類似した治療効果複合指標

	MT	x	Place	ebo		Risk ratio	Risk rat	io
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M-H, Random,	95% CI
Giannini EH 1992	36	75	14	39	58.6%	1.34 [0.83 , 2.16]		
Woo P 2000	20	43	8	43	41.4%	2.50 [1.24 , 5.05]	-11 A	-
Total (95% CI)		118	0	82	100.0%	1.73 [0.94 , 3.18]		
Total events:	56		22				a na 16 .	
Heterogeneity: Tau ² =	0.10; Chi ²	= 2.10, d	lf = 1 (P =)	0.15); l² =	52%	0	1 0.2 0.5 1	2 5 10
Test for overall effect:	Z = 1.77 (F	= 0.08)	20	88		3/2/0	504. 35/275 ND6/56. 14	Favours [MTX]
Test for subgroup diffe	oronoos: N	at applica	blo				1999 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	1999/1409/960/0789/1497/1977

Test for subgroup differences: Not applicable

Limited joint range score

		MTX			Placebo			Mean difference	Mean di	fference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Rando	m, 95% CI
Giannini EH 1992	-2.982667	10.347586	75	-0.7	8.118497	39	76.1%	-2.28 [-5.74 , 1.18]	-	-
Woo P 2000	4.47	17.979255	24	0	17.979255	24	23.9%	4.47 [-5.70 , 14.64]		
Total (95% CI)			99			63	100.0%	-0.67 [-6.31 , 4.97]	-	
Heterogeneity: Tau ² =	7.77; Chi ² =	1.52, df = 1	P = 0.22)	; 12 = 34%	r				1151 I	520 81 81
Test for overall effect:	Z = 0.23 (P =	= 0.82)							-20 -10 0	10 20
Test for subgroup diffe	erences: Not	applicable							Favours [MTX]	Favours [Placebo

Toxicity

	MT	x	Place	ebo		Risk ratio	Risk	ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M-H, Rando	om, 95% CI
Giannini EH 1992	14	86	5	41	100.0%	1.33 [0.52 , 3.45]		
Total (95% CI)		86	8	41	100.0%	1.33 [0.52 , 3.45]	-	
Total events:	14		5					
Heterogeneity: Not ap	oplicable						0.1 0.2 0.5 1	2 5 10
Test for overall effect:	Z = 0.60 (F	P = 0.55)					Favours [MTX]	Favours [Placebo]
Test for subgroup diffe	erences: N	at annlica	ble				64 - 1860	

Test for subgroup differences: Not applicable

薬剤継続割合

	MT	х	Place	ebo		Risk ratio	Risk	ratio		
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M-H, Random, 95% CI			
Giannini EH 1992	74	86	34	41	100.0%	1.04 [0.88 , 1.22]				
Total (95% CI)		86		41	100.0%	1.04 [0.88 , 1.22]				
Total events:	74		34							
Heterogeneity: Not ap	oplicable						0.1 0.2 0.5	1 2 5 10		
Test for overall effect:	Z = 0.44 (F	P = 0.66)				Fav	vours [Placebo]	Favours [MTX]		
Test for subgroup diffe	erences: No	ot applica	ble							

No.	検索式	検索件数
1	(arthritis, juvenile[MeSH Terms]) OR (arthritis, juvenile[Title/Abstract])	11,814
2	(((polyarthritis[MeSH Terms]) OR (pauciarticular[MeSH Terms])) OR (oligoarthritis[MeSH Terms])) OR (monoarthritis[MeSH Terms])	294,841
3	(((polyarthritis[Title/Abstract]) OR (pauciarticular[Title/Abstract])) OR (oligoarthritis[Title/Abstract])) OR (monoarthritis[Title/Abstract])	11,733
4	#2 OR #3	296,958
5	#1 AND #4	11,696
6	"salazosulfapyridine" OR "sulfasalazine" OR "iguratimod" OR "bucillamine" OR "leflunomide" OR "tacrolimus" OR "mizoribine" OR "azathioprine" OR "cyclosporine"	96,173
7	#5 AND #6	285

データベース:PubMed, ~2022/12/31

資料A JIA CQ2 文献検索式(Cochrane)

No.	検索式	検索件数
1	arthritis, juvenile	1,111
2	polyarthritis OR pauciarticular OR oligoarthritis OR monoarthritis	514
3	#1 AND #2	80
	salazosulfapyridine OR sulfasalazine OR iguratimod OR bucillamine OR leflunomide OR tacrolimus OR mizoribine OR azathioprine OR cyclosporine	14,846
5	#3 AND #4	14

データベース: Cochrane, ~2022/12/31

No.	検索式	検索件数
1	関節炎-若年性/TH or 若年性特発性関節炎/AL	3,769
2	関節型/AL or 少関節/AL or 多関節/AL	2,205
3	#1 and #2	402
	(Sulfasalazine/TH or サラゾスルファピリジン/AL) or (Sulfasalazine/TH or ス ルファサラジン/AL) or (Iguratimod/TH or イグラチモド/AL) or (Bucillamine/TH or ブシラミン/AL) or (Leflunomide/TH or レフルノミド/AL) or (Mizoribine/TH or ミゾリビン/AL) or (Tacrolimus/TH or タクロリムス/AL) or (Azathioprine/TH or アザチオプリン/AL) or (Ciclosporin/TH or シクロスポ リン/AL)	41,642
5	#3 and #4	28
6	#5 and (PT=会議録除く)	18

データベース:医中誌,~2022/12/31

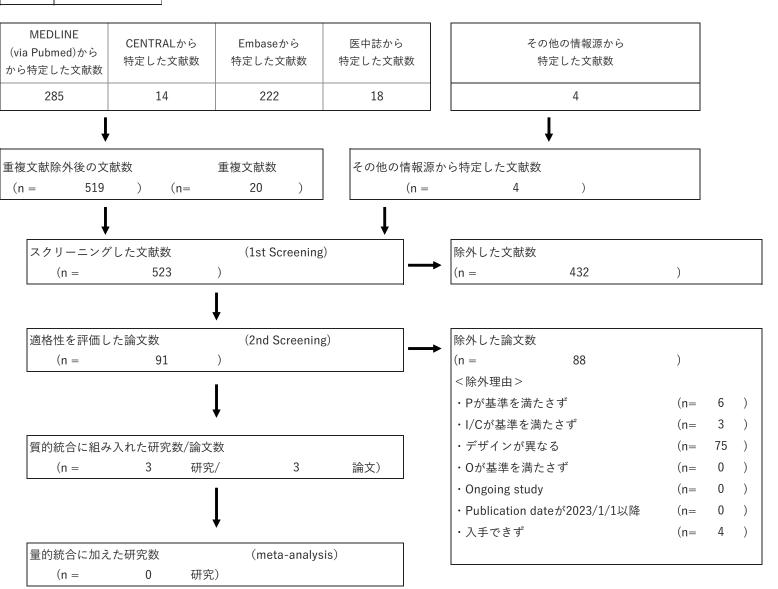
No.	検索式	検索件数
1	('arthritis, juvenile':ab,ti OR 'arthritis, juvenile'/exp OR 'arthritis, juvenile') AND ([english]/lim OR [japanese]/lim) AND [abstracts]/lim	16,397
2	polyarthritis:ab,ti OR pauciarticular:ab,ti OR oligoarthritis:ab,ti OR monoarthritis:ab,ti	8,482
3	salazosulfapyridine OR sulfasalasine OR igratimod OR bucillamine OR leflunomide OR tacrolimus OR mizoribine OR azathioprine OR cyclosporine	72,311
4	#1 AND #2 AND #3	222

データベース: Embase, ~2020/12/31

検索日 2021/1/30

資料BJIA CQ2 文献検索フローチャート

CQ番号 JIA CQ2



資料C JIA CQ2 バイアスのリスク(△Number of active joints)

Intention-to- treat	<u>Unique ID</u>	Study ID	Experimental	<u>Comparator</u>	Outcome	<u>Weight</u>	<u>D1</u>	<u>D2</u>	<u>D3</u>	<u>D4</u>	<u>D5</u>	<u>Overall</u>		
	61_A	Kvein 1986	AZP	Placebo	Number of active joints	1	+	•	•	+	+	-	+	Low risk
	39_B	Silverman 2005	LEF	MTX	Number of active joints	1	+	+	•	+	+	-	!	Some concerns
	51_B	Rossum 1998	SASP	Placebo	Number of active joints	1	+	+	•	+	+	•	•	High risk

- D1 Randomisation process
- D2 Deviations from the intended interventions
- D3 Missing outcome data
- D4 Measurement of the outcome
- D5 Selection of the reported result

資料C JIA CQ2 バイアスのリスク(ACR Pedi 30)

Intention-to- treat	<u>Unique ID</u> 39_A	<u>Studv ID</u> Silverman 2005	<u>Experimental</u> LEF	<u>Comparator</u> MTX	<u>Outcome</u> ACR Pedi 30	<u>Weight</u> 1	<u>D1</u> +	<u>D2</u> +	<u>D3</u>	<u>D4</u> +	<u>D5</u> +	Overall -	+ ! =	Low risk Some concerns High risk
													D1	Randomisation process
													D2	Deviations from the intended interventions
													D3	Missing outcome data
													D4	Measurement of the outcome
													D5	Selection of the reported result

資料C JIA CQ2 バイアスのリスク(△C-HAQ DI)

Intention-to- treat	<u>Unique ID</u> 39_C	<u>Study ID</u> Silverman 2005	Experimental LEF	<u>Comparator</u> MTX	<u>Outcome</u> C-HAQ DI	<u>Weight</u> 1	<u>D1</u> +	<u>D2</u> +	<u>D3</u>	<u>D4</u> +	<u>D5</u> +	<u>Overall</u>	+ ! =	Low risk Some concerns High risk
													D1	Randomisation process
													D2	Deviations from the intended interventions
													D3	Missing outcome data
													D4	Measurement of the outcome
													D5	Selection of the reported result

資料C JIA CQ2 バイアスのリスク(△Number of limited joints)

Intention-to- treat	<u>Unique ID</u>	Study ID	Experimental	<u>Comparator</u>	<u>Outcome</u>	<u>Weight</u>	<u>D1</u>	<u>D2</u>	<u>D3</u>	<u>D4</u>	<u>D5</u>	<u>Overall</u>		
	39_D	Silverman 2005	LEF	MTX	Number of limited joints	1	+	+	•	+	+	-	!	Some concerns
	51_A	Rossum 1998	SASP	Placebo	Number of limited joints	1	+	+	-	+	+	•	•	High risk

D1 Randomisation process

D2 Deviations from the intended interventions

D3 Missing outcome data

D4 Measurement of the outcome

D5 Selection of the reported result

資料C JIA CQ2 バイアスのリスク(Serious adverse events, Serious infection)

Intention-to- treat	<u>Unique ID</u>	Study ID	<u>Experimental</u>	<u>Comparator</u>	Outcome	<u>Weight</u>	<u>D1</u>	<u>D2</u>	<u>D3</u>	<u>D4</u>	<u>D5</u>	<u>Overall</u>		
	39_E	Silverman 2005	LEF	MTX	重篤な副作用	1	+	+	+	+	+	+	+	Low risk
	39_F	Silverman 2005	LEF	MTX	重篤な感染症	1	+	+	+	+	+	+	!	Some concerns
	51_C	Rossum 1998	SSZ	Placebo	重篤な副作用	1	+	+	+	+	+	+	•	High risk

- D1 Randomisation process
- D2 Deviations from the intended interventions
- D3 Missing outcome data
- D4 Measurement of the outcome
- D5 Selection of the reported result

資料C JIA CQ2 バイアスのリスク(Drug continuation rate)

Intention-to- treat	<u>Unique ID</u> 61_C 39_G	<u>Study ID</u> Kvein 1986 Silverman 2005	<u>Experimental</u> AZP LEF	<u>Comparator</u> Placebo MTX	<u>Outcome</u> Drug continuation rate Drug continuation rate	<u>Weight</u> 1 1	<u>D1</u> + +	<u>D2</u> + +	<u>D3</u> + +	<u>D4</u> + +	<u>D5</u> + +	Overall + +	+ !	Low risk Some concerns High risk
													D1	Randomisation process

- D2 Deviations from the intended interventions
- D3 Missing outcome data
- D4 Measurement of the outcome
- D5 Selection of the reported result

資料 D JIA CO2 エビデンスプロファイル (AZP vs PBO) Question: AZP compared to placebo for articular JIA

			Certainty a	ssessment			Nº of p	atients	Effect			
Nº of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	AZP	placebo	Relative (95% Cl)	Absolute (95% CI)	Certainty	Importance

Outcomes used for the recommendation

Drug continuation rate (follow-up: 16 weeks)

1	randomised trials	not serious	not serious	serious ^a	very serious ^b	none	13/17 (76.5%)	11/15 (73.3%)	RR 1.18 (0.24 to 5.86)	132 more per 1,000 (from 557 fewer to 1,000 more)		CRITICAL
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CI: confidence interval; RR: risk ratio

Explanations a. Differences in population. b. The 95% confidence interval of the risk ratio include decision thresholds of 0.75 and 1.25.

資料 D JIA CO2 エビデンスプロファイル (LEF vs MTX) Question: LEF compared to MTX for articular JIA

			Certainty ass	essment			Nº of p	atients		Effect		
Nº of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	LEF	МТХ	Relative (95% Cl)	Absolute (95% CI)	Certainty	Importance

Outcomes used for the recommendation

ΔNumber of active joints (follow-up: 16 weeks)

	active joints (10)	·····,										
1	randomised trials	very serious ^a	not serious	not serious	serious℃	none	47	47	-	MD 0.8 higher (0.4 higher to 1.2 higher)		CRITICAL
ACR Pedi 30) (follow-up: 16 we	eks)					·			· · ·		
1	randomised trials	very serious ^a	not serious	not serious	serious ^b	none	32/47 (68.1%)	42/47 (89.4%)	RR 0.76 (0.61 to 0.95)	214 fewer per 1,000 (from 349 fewer to 45 fewer)		CRITICAL
∆C-HAQ DI (follow-up: 16 wee	ks)					•			· · · ·		
1	randomised trials	not serious	not serious	not serious	serious℃	none	47	47	-	MD 0.05 lower (0.09 lower to 0.01 lower)		CRITICAL
Δ Number o	f limited joints (fo	llow-up: 16 weeks)										
1	randomised trials	very serious ^a	not serious	not serious	serious°	none	47	47	-	MD 0.1 higher (0.22 lower to 0.42 higher)		CRITICAL
Serious adv	erse events (follow	v-up: 16 weeks)	I	I	I			11		1 1		1
1	randomised trials	not serious	not serious	not serious	very serious ^d	none	3/47 (6.4%)	0/47 (0.0%)	RR 7.00 ° (0.37 o 131.89)	0 fewer per 1,000 (from 0 fewer to 0 fewer)	$\oplus \oplus \bigcirc \bigcirc$	CRITICAL
								3.2% ^h		192 more per 1,000 ^h (from 20 fewer to 1,000 more)	Low	
Serious infe	ction (follow-up: 1	6 weeks)										
1	randomised trials	not serious	not serious	not serious	very serious ^d	none	1/47 (2.1%)	0/47 (0.0%)	RR 3.00 ^e (0.13 to 71.82)	0 fewer per 1,000 (from 0 fewer to 0 fewer)	$\Theta \Theta \odot \odot$	CRITICAL
								1.6% ^h		32 more per 1,000 ^h (from 14 fewer to 1,000 more)	Low	
Drug continu	uation rate (follow	-up: 16 weeks)										
1	randomised trials	not serious	not serious	not serious	serious ^b	none	44/47 (93.6%)	46/47 (97.9%)	RR 0.96 (0.88 to 1.04)	39 fewer per 1,000 (from 117 fewer to 39 more)		CRITICAL

CI: confidence interval; MD: mean difference; RR: risk ratio

Explanations a. Many missing outcome data may affect the result. b. The 95% confidence interval of the risk ratio include decision thresholds of 0.75.

c. The total sample size is small.

d. The 95% confidence interval of the risk ratio include decision thresholds of 0.75 and 1.25.
e. Calculated assuming control event count as 0.5.
h. Extrapolated from the paper: Ruperto H, et al. Lancet. 2008; 372: 383-391.

資料 D JIA CO2 エビデンスプロファイル (SASP vs PBO) Question: SASP compared to placebo for articular JIA

			Certainty a	ssessment			Nº of p	patients	Effec	i		
Nº of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	SASP	placebo	Relative (95% Cl)	Absolute (95% Cl)	Certainty	Importance

Outcomes used for the recommendation

ΔNumber of active joints (follow-up: 24 weeks)

1	randomised trials	very serious ^a	not serious	not serious	very serious ^{c,d}	none	35	34	-	MD 4.76 lower (8.06 lower to 1.04 lower)		CRITICAL
										1.04 10WCI)	very low	

ΔNumber of limited joints (follow-up: 24 weeks)

1	randomised trials	very serious ^a	not serious	not serious	serious ^b	none	35	34	-	MD 0.52 lower (3.22 lower to 2.18 higher)		CRITICAL
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Serious adverse events (follow-up: 24 weeks)

1	randomised trials	not serious	not serious	not serious	extremely serious ^{b,e}	none	1/35 (2.9%)	3.2%9	RR 2.92 ^r (0.12 to 69.20)	61 more per 1,000g (from 28 fewer to1,000 more)		CRITICAL
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CI: confidence interval: MD: mean difference: RR: risk ratio

Explanations a. Many missing outcome data may affect the result. b. The total sample size and the total number of the events are small. c. The 95% confidence interval of the mean difference includes the minimally important difference of -4.

d. The total sample size is small.
 e. The 95% confidence interval of the risk ratio includes both the decision thresholds of 0.75 and 1.25.

f. Calculated assuming control event count as 0.5.
 g. Extrapolated from the paper: Ruperto H, et al. Lancet. 2008; 372: 383-391.

Outcomes used for the recommendation

Drug continuation rate (follow-up: 16 weeks)

	Azathio	prine	Place	00		Risk Ratio	Risk Ratio		
Study or Subgroup	Events	Tota	Events	Tota	Weight	M-H, Random, 95% CI	M-H, Random, 95%	CI	
Kvein 1986	13	17	11	15	100.0%	1.18 [0.24, 5.86]		-	
Total (95% CI)		17		15	100.0%	1.18 [0.24, 5.86]		-	
Total events	13		11						
Heterogeneity: Not ap Test for overall effect:	•	9 = 0.84)	I			0.01	0.1 1 Favours Placebo Favours	10 Azathiop	100 irine

Outcomes used for the recommendation

Δ Number of active joints (follow-up: 16 weeks)

	Leflu	nomi	de	Methe	otrexa	ate		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Tota	Mean	SD	Tota	Weight	IV, Random, 95% Cl	IV, Random, 95% Cl
Silverman 2005	-8.1	1	47	-8.9	1	47	100.0%	0.80 [0.40, 1.20]	_
Total (95% CI)			47			47	100.0%	0.80 [0.40, 1.20]	
Heterogeneity: Not ap Test for overall effect:	•	(P = ().0001)						-100 -50 0 50 100 Favours methotrexate Favours leflunomide

ACR Pedi 30 (follow-up: 16 weeks)

	Leflunor	nide	Methotre	exate		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Tota	Events	Tota	Weight	M-H, Random, 95% Cl	M-H, Random, 95% CI
Silverman 2005	32	47	42	47	100.0%	0.76 [0.61, 0.95]	
Total (95% CI)		47		47	100.0%	0.76 [0.61, 0.95]	•
Total events	32		42				
Heterogeneity: Not app							0.01 0.1 1 10 100
Test for overall effect: .	Z = 2.43 (P	· = 0.02)				Favours methotrexate Favours leflunomide

Δ C-HAQ DI (follow-up: 16 weeks)

	Leflu	inomi	de	Meth	otrexa	ate		Mean Difference		Mean Dr	fference		
Study or Subgroup	Mean	SD	Tota	Mean	SD	Tota	Weight	IV, Random, 95% Cl		IV, Rando	m, 95% Cl		
Silverman 2005	-0.44	0.08	47	-0.39	0.1	47	100.0%	-0.05 [-0.09, -0.01]					
Total (95% CI)			47			47	100.0 %	-0.05 [-0.09, -0.01]					
Heterogeneity: Not ap Test for overall effect:		(P=0).007)						-100	-50 Favours mehotrexate	-	1 50 Inomide	100

Δ Number of limited joints (follow-up: 16 weeks)

	Leflu	nomi	de	Methe	otrexa	ate		Mean Difference		Mean Di	fference	
Study or Subgroup	Mean	SD	Tota	Mean	SD	Tota	Weight	IV, Random, 95% Cl		IV, Rando	om, 95% Cl	
Silverman 2005	-5.2	0.8	47	-5.3	0.8	47	100.0%	0.10 [-0.22, 0.42]				
Total (95% CI)			47			47	100.0%	0.10 [-0.22, 0.42]				
Heterogeneity: Not ap Test for overall effect:	•	(P = (0.54)						⊢ -100	-50 Favours methotrexate	 0 50 Favours leflunomide	100

Serious adverse events (follow-up: 16 weeks)

	Lefluno	mide	Methotre	exate		Risk Ratio		Risk	Ratio	
Study or Subgroup	Events	Tota	Events	Tota	Weight	M-H, Random, 95% Cl		M-H, Rand	lom, 95% Cl	
Silverman 2005	3	47	0	47	100.0%	7.00 [0.37, 131.89]				
Total (95% CI)		47		47	100.0%	7.00 [0.37, 131.89]				
Total events	3		0							
Heterogeneity: Not ap	plicable						0.01	0.1	 1 10	100
Test for overall effect:	Z = 1.30 (F	P = 0.19)				0.01	Favours leflunomide	Favours methotrexate	100

Serious infection (follow-up: 16 weeks)

	Lefluno	nide	Methotre	exate		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Tota	Events	Tota	Weight	M-H, Random, 95% Cl	M-H, Random, 95% Cl
Silverman 2005	1	47	0	47	100.0%	3.00 [0.13, 71.82]	
Total (95% CI)		47		47	100.0%	3.00 [0.13, 71.82]	
Total events	1		0				
Heterogeneity: Not ap Test for overall effect:	•	' = 0.50))				0.01 0.1 1 10 100 Favours leflunomide Favours methotrexate

Drug continuation rate (follow-up: 16 weeks)

	Lefluno	nide	Methotre	exate		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Tota	Events	Tota	Weight	M-H, Random, 95% Cl	M-H, Random, 95% Cl
Silverman 2005	44	47	46	47	100.0%	0.96 [0.88, 1.04]	•
Total (95% CI)		47		47	100.0%	0.96 [0.88, 1.04]	4
Total events	44		46				
Heterogeneity: Not ap	plicable						
Test for overall effect:	Z = 1.02 (F	' = 0.31))				0.01 0.1 1 10 100 Favours methotrexate Favours leflunomide

Outcomes used for the recommendation

Δ Number of active joints (follow-up: 24 weeks)

	Salazos	ulfapyri	dine	Pl	acebo	,		Mean Difference		Me	an Differen	ce	
Study or Subgroup	Mean	SD	Tota	Mean	SD	Tota	Weight	IV. Random, 95% Cl		IV. Random, 95% Cl			
Rossum 1998	-5.54	6.86	35	-0.78	7.11	34	100.0%	-4.76 [-8.06, -1.46]					
Total (95% CI)			35			34	100.0%	-4.76 [-8.06, -1.46]			•		
Heterogeneity: Not ap Test for overall effect:	•	9 = 0.005)						⊢ -100	-50 Favours S	0 ASP Favo	50 urs Placebo	100

Δ Number of limited joints (follow-up: 24 weeks)

	Salazos	ulfapyri	dine	P	acebo			Mean Difference		Mean Diff	ference	
Study or Subgroup	Mean	SD	Tota	Mean	SD	Tota	Weight	IV. Random, 95% Cl		IV, Rando	m, 95% Cl	
Rossum 1998	-2.49	6.62	35	-1.97	4.66	34	100.0%	-0.52 [-3.22, 2.18]				
Total (95% CI)			35			34	100.0%	-0.52 [-3.22, 2.18]		. 🕴		
Heterogeneity: Not app Test for overall effect: 2		9 = 0.71)							⊢ -100 -5 Fav		ا 50 Favours Pla	

Serious adverse events (follow-up: 24 weeks)

	Salazosulfapy	idine	Place	00		Risk Ratio		Risk Ratio
Study or Subgroup	Events	Tota	Events	Tota	Weight	M-H, Random, 95% Cl	1	M-H. Random, 95% CI
Rossum 1998	1	35	0	34	100.0%	2.92 [0.12, 69.20]		
Total (95% CI)		35		34	100.0%	2.92 [0.12, 69.20]		
Total events	1		0					
Heterogeneity: Not app Test for overall effect: Z		1)					0.01	0.1 1 10 100 Favours SASP Favours Placebo

No.	検索式	検索件数
1	(arthritis, juvenile[MeSH Terms]) OR (arthritis, juvenile[Title/Abstract])	11,818
2	(polyarthritis[MeSH Terms]) OR (pauciarticluar[MeSH Terms]) OR (oligoarthritis[MeSH Terms]) OR (monoarthritis[MeSH Terms])	294,929
3	(polyarthritis[Title/Abstract]) OR (pauciarticular[Title/Abstract]) OR (oligoarthritis[Title/Abstract]) OR (monoarthritis[Title/Abstract])	11,733
4	(#2) OR (#3)	297,046
5	(#1) AND (#4)	11,701
6	(corticosteroid [MH]) OR (prednisolone[TIAB]) OR (glucocorticoid [TIAB]) OR (steroid[TIAB])	469,199
7	(#5) AND (#6)	1,046
8	#7 Filter from 1000/1/1-2022	1,036

データベース: PubMed, ~2022/12/31

No.	検索式	検索件数
1	arthritis, juvenile	1,123
2	(polyarthritis) OR (pauciarticluar) OR (oligoarthritis) OR (monoarthritis)	501
3	(polyarthritis):ti,ab,kw OR (pauciarticular):ti,ab,kw OR (oligoarthritis):ti,ab,kw OR (monoarthritis):ti,ab,kw	437
4	#2 OR #3	517
5	#1 AND #4	80
6	(corticosteroid) OR (prednisolone) OR (glucocorticoid) OR (steroid)	40,042
7	(corticosteroid):ti,ab,kw OR (prednisolone):ti,ab,kw OR (glucocorticoid):ti,ab,kw OR (steroid):ti,ab,kw	38,536
8	#6 OR #7	40,042
9	#5 AND #8	20
10	#9 with Cochrane Library publication date to Dec 2022	20

データベース: Cochrane, ~2022/12/31

No.	検索式	検索件数
	関節炎-若年性/TH or 少関節炎型若年性特発性関節炎/AL or 多関節炎型若年性 特発性関節炎	3,068
2	glucocorticoid/TH or steroid/AL orステロイド/AL or corticosteroid/AL or グル ココルチコイド/AL or prednisolone/AL	86,892
3	#1 and #2	354
4	(#3) and (PT=会議録除く)	210
5	#4 and (DT=1900:2022)	210

データベース:医中誌,~2022/12/31

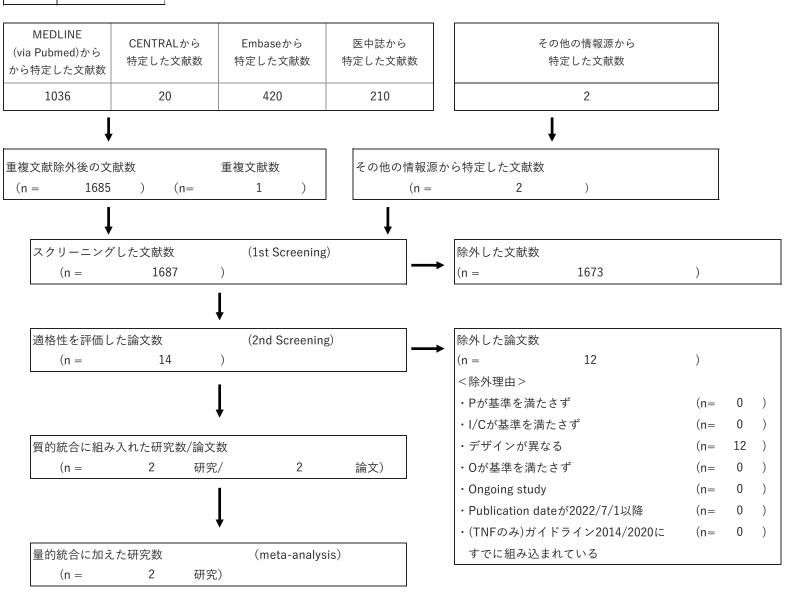
No.	検索式	検索件数
1	arthritis, juvenile':ab,ti OR 'arthritis, juvenile'/exp	22,831
2	polyarthritis:ab,ti OR pauciarticular:ab,ti OR oligoarthritis:ab,ti OR monoarthritis:ab,ti	14,657
3	corticosteroid OR prednisolone OR glucocorticoid OR steroid	829,931
4	('arthritis, juvenile':ab,ti OR 'arthritis, juvenile'/exp) AND (polyarthritis:ab,ti OR pauciarticular:ab,ti OR oligoarthritis:ab,ti OR monoarthritis:ab,ti) AND (corticosteroid OR prednisolone OR glucocorticoid OR steroid) AND ([english]/lim OR [japanese]/lim) AND [abstracts]/lim	420

データベース: Embase, ~2020/12/31

検索日 2021/1/11

資料B JIA CQ3 文献検索フローチャート

CQ番号 JIA CQ3



資料C JIA CQ3 バイアスのリスク

SAE	Unique ID	Study ID	Experimental	Comparator_	Outcome	Weight	<u>D1</u>	<u>D2</u>	<u>D3</u>	<u>D4</u>	<u>D5</u>	<u>Overall</u>		
	1	Umang.2022	А	В	ACR Pedi 30	1	+	+	+	+	+	+	+	Low risk
	2	Umang.2022	А	В	ACR Pedi 50	1	+	+	+	+	+	+	!	Some concerns
	3	Umang.2022	А	В	ACR Pedi 70	1	+	+	+	+	+	+	-	High risk
	4	Umang.2022	А	В	AE Hyperglycemia	1	+	+	+	+	+	+		
	5	Umang.2022	А	В	AE Cushing	1	+	+	+	+	+	+	D1	Randomisation process
	6	Hissink.2017	С	D	ACR Pedi 30	1	!	+	+	+	!	!	D2	Deviations from the intended interventions
	7	Hissink.2017	С	D	ACR Pedi 50	1	!	+	+	+	!	!	D3	Missing outcome data
	8	Hissink.2017	С	D	ACR Pedi 70	1	!	+	+	+	!	!	D4	Measurement of the outcome
	10	Hissink.2017	С	D	AE	1	!	+	+	+	!	!		
	11	Hissink.2017	С	D	SAE	1	!	+	+	+	!	!		

資料 D JIA CO3 エビデンスプロファイル (DEX) Question: Dex versus Placebo for JIA.

			Certainty asses	sment		Nº of p	atients	Eff	ect			
Nº of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	RTX	placebo	Relative (95% Cl)	Absolute (95% Cl)	Certainty	Importance
ACR Pedi3	0											
1	randomized trials	not serious	not serious	Serious ^a	Serious ^b	none	24/30 (80.0%)	21/28 (75.0%)	RR 1.07 (0.81 to 1.41)	53 more per 1,000 (from 142 fewer to 307 more)		CRITICAL
ACR Pedi5	0											
1	randomized trials	not serious	not serious	Serious ^a	Very serious⁵	none	18/30 (60.0%)	17/28 (60.7%)	RR 0.99 (0.65 to 1.50)	6 fewer per 1,000 (from 212 fewer to 304 more)		IMPORTANT
ACR Pedi7	0											
1	randomized trials	not serious	not serious	Serious ^a	Very serious ^b	none	11/30 (36.7%)	11/28 (39.3%)	RR 0.93 (0.48 to 1.80)	27 fewer per 1,000 (from 204 fewer to 314 more)	⊕⊖⊖⊖ _{very low}	IMPORTANT
SAE					I	L	1	1	•	I	I	•
1	randomized trials	not serious	not serious	Serious ^a	seriouse	none	0/30 (0%)	0/28 (0.0%)			$\bigcirc \bigcirc $	CRITICAL
Cushing	JI	Į			<u></u>	<u>.</u>	<u> </u>	I	1	Į	Į	4
1	randomized trials	not serious	not serious	Serious ^a	very serious ^c	none	8/30 (26.7%)	4/28 (14.3%)	RR 1.87 (0.63 to 5.52)	124 more per 1,000 (from 53 fewer to 646 more)	$\bigoplus_{very low} \bigcirc \bigcirc$	IMPORTANT
Hyperglyce	emia	,					•	•			,	:
1	randomized trials	not serious	not serious	Serious ^a	Very serious ^c	none	2/30 (6.7%)	0/28 (0.0%)	RR 4.68 (0.23 to 93.37)	d		IMPORTANT

CI: confidence interval; RR: risk ratio.

Explanations

a. Patients with other types of JIA are included.

b. 95%CI of RR includes the decision thresholds of 1.25

c. 95%CI of RR includes both the decision thresholds of 0.75 and 1.25 $\,$

d. Unable to extrapolate

e. The total sample size is small.

資料 D JIA CQ3 エビデンスプロファイル (PSL) Question: DMARD+PSL versus DMARD for JIA.

KA-D JIAC	:Q3 エビデ	シスプロ	ファイル(PSL)	Question: D	MARD+PSL vers	sus DMARD for JIA						1
			Certainty ass	essment			Nº of p	atients	Effe	ct		
Nº of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	RTX	placebo	Relative (95% Cl)	Absolute (95% CI)	Certainty	Importance
臨床的非	活動状態過	達成割合	(Wallace pre	liminary crit	eria)							
1	randomized trials	serious ^a	not serious	not serious	Very serious ^b	none	3/32 (9.4%)	8/32 (25.0%)	RR 0.38 (0.11 to 1.29)	155 fewer per 1,000 (from 223 fewer to 73 more)		CRITICAL
ACR Pedi	30											
1	randomized trials	seriousª	not serious	not serious	Very serious ^b	none	17/32 (53.1%)	16/32 (50.0%)	RR 1.06 (0.66 to 1.71)	30 more per 1,000 (from 170 fewer to 355 more)	⊕⊖⊖⊖ _{very low}	CRITICAL
ACR Pedi	50											
1	randomized trials	seriousª	not serious	not serious	Very serious ^b	none	12/32 (37.5%)	10/32 (31.3%)	RR 1.20 (0.61 to 2.37)	62 more per 1,000 (from 122 fewer to 428 more)		IMPORTANT
ACR Pedi	70		_									
1	randomized trials	seriousª	not serious	not serious	Very serious ^b	none	6/32 (18.8%)	8/32 (25.0%)	RR 0.75 (0.29 to 1.92)	63 fewer per 1,000 (from 178 fewer to 230 more)	$\bigoplus_{\text{very low}} \bigcirc \bigcirc$	IMPORTANT
SAE							1	1		1		1
1	randomized trials	seriousª	not serious	not serious	Very serious ^b	none	1/32 (3.1%)	2/32 (6.3%)	RR 0.50 (0.05 to 5.24)	31 fewer per 1,000 (from 59 fewer to 265 more)		CRITICAL
Any AE				•	•	•			•			•
1	randomized trials	serious ^a	not serious	not serious	Very serious ^b	none	9/32 (28.1%)	7/32 (21.9%)	RR 1.29 (0.55 to 3.03)	63 more per 1,000 (from 98 fewer to 444 more)		IMPORTANT
Gastrointe	estinal			•	•	ı		1	L	1		1
1	randomized trials	serious ^a	not serious	not serious	serious	none	14/32 (43.8%)	7/32 (21.9%)	RR 2.00 (0.93 to 4.29)	219 more per 1,000 (from 15 fewer to 720 more)		IMPORTANT
Infection												
1	randomized trials	seriousª	not serious	not serious	Very serious ^b	none	6/32 (18.8%)	8/32 (25.0%)	RR 0.75 (0.29 to 1.92)	63 fewer per 1,000 (from 178 fewer to 230 more)	$\bigoplus_{\text{very low}} \bigcirc \bigcirc$	IMPORTANT
		1		1	1	1	L	L	I	200 (11010)		1

CI: confidence interval; RR: risk ratio.

Explanations a. Insufficient randomization, b. The 95% CI of the RR includes both the decision thresholds of 0.75 and 1.25. c. The 95% CI of the RR includes the decision thresholds of 1.25.

ACR Pedi30

	Dex		Placebo		Risk Ratio			Risk Ratio			
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% Cl		M-H	Random, 95%	CI	
Umang Bhardwaj, 2022(Dex vs Placebo)	24	30	21	28		1.07 [0.81, 1.41]					
Total (95% CI)		30		28	100.0%	1.07 [0.81, 1.41]			•		
Total events	24		21								
Heterogeneity: Not applicable Test for overall effect: Z = 0.45 (P = 0.65)							0.01	0.1	cebol Favou	10	100

ACR Pedi50

	Dex	¢	Placebo		Risk Ratio			Risk Ratio			
Study or Subgroup	Events	Total	Events	Total	Weight	M-H. Random, 95% Cl		M-H, I	Random, 95% Cl		
Umang Bhardwaj, 2022(Dex vs Placebo)	18	30	17	28	100.0%	0.99 [0.65, 1.50]					
Total (95% CI)		30		28	100.0%	0.99 [0.65, 1.50]			+		
Total events	18		17								
Heterogeneity: Not applicable							0.01	01	-	10	100
Test for overall effect: Z = 0.06 (P = 0.96)								Favours (Place	bo] Favours [I	Dex]	100

ACR Pedi70

	Dex		Placebo			Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M-H, Random, 95% CI
Umang Bhardwaj, 2022(Dex vs Placebo)	11	30	11	28	100.0%	0.93 [0.48, 1.80]	
Total (95% CI)		30		28	100.0%	0.93 [0.48, 1.80]	+
Total events	11		11				
Heterogeneity: Not applicable Test for overall effect: Z = 0.21 (P = 0.84)							0.01 0.1 1 10 100 Favours [Placebo] Favours [Dex]

Cushing

100	Dex		Placebo			Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% C	M-H. Random, 95% Cl
Umang Bhardwaj, 2022(Dex vs Placebo)	8	30	4	28	100.0%	1.87 [0.63, 5.52]	
Total (95% CI)		30		28	100.0%	1.87 [0.63, 5.52]	-
Total events	8		4				12 Juni 22 Juni 23
Heterogeneity: Not applicable Test for overall effect: Z = 1.13 (P = 0.26)							0.01 0.1 1 10 100 Favours [Dex] Favours [Placebo]

Hyperglycemia

	Dex		Placebo			Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H. Random, 95% Cl	M-H. Random, 95% CI
Umang Bhardwaj, 2022(Dex vs Placebo)	2	30	0	28	100.0%	4.68 [0.23, 93.37]	
Total (95% CI)		30		28	100.0%	4.68 [0.23, 93.37]	
Total events	2		0				
Heterogeneity: Not applicable						0.01	0,1 1 10 100
Test for overall effect: Z = 1.01 (P = 0.31)						0.01	0.1 1 10 100 Favours [Dex] Favours [Placebo]

臨床的非活動状態達成割合(Wallace preliminary criteria)

	DMARD	PSL	DMARD			Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% Cl	M-H, Random, 95% Cl
Muller 2017, DMARD+PSL vs DMARD	3	32	8	32	100.0%	0.38 [0.11, 1.29]	
Total (95% CI)		32		32	100.0%	0.38 [0.11, 1.29]	
Total events	3		8				
Heterogeneity: Not applicable Test for overall effect: Z = 1.56 (P = 0.12)						L.01	1 0.1 1 10 100 Favours [DMARD] Favours [DMARD+PSL]

ACR Pedi30

	DMARD+	DMAF	RD		Risk Ratio	Risk Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H. Random, 95% Cl	M-H. Random, 95% CI
Muller 2017, DMARD+PSL vs DMARD	17	32	16	32	100.0%	1.06 [0.66, 1.71]	
Total (95% CI)		32		32	100.0%	1.06 [0.66, 1.71]	+
Total events	17		16				
Heterogeneity: Not applicable							
Test for overall effect: Z = 0.25 (P = 0.80)	1						Favours [DMARD] Favours [DMARD+PSL]

ACR Pedi50

	DMARD	PSL	DMA	RD		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H. Random, 95% Cl	M-H. Random, 95% Cl
Muller 2017, DMARD+PSL vs DMARD	12	32	10	32	100.0%	1.20 [0.61, 2.37]	
Total (95% CI)		32		32	100.0%	1.20 [0.61, 2.37]	-
Total events	12		10				
Heterogeneity: Not applicable Test for overall effect: Z = 0.52 (P = 0.60)						1	0.01 0.1 1 10 100 Favours [DMARD] Favours [DMARD+PSL]

ACR Pedi70

	DMARD-	PSL	DMAR	RD		Risk Ratio	Risk	Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M-H, Rand	lom, 95% Cl	
Muller 2017, DMARD+PSL vs DMARD	6	32	8	32	100.0%	0.75 [0.29, 1.92]			
Total (95% CI)		32		32	100.0%	0.75 [0.29, 1.92]			
Total events	6		8					85	
Heterogeneity: Not applicable Test for overall effect: Z = 0.60 (P = 0.55)						0.01	0.1 Favours DMARDI]	1 10 Favours [DMARD+	100 PSL]

SAE

	DMARD+	PSL	DMAR	RD		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M-H, Random, 95% Cl
Muller 2017, DMARD+PSL vs DMARD	1	32	2	32	100.0%	0.50 [0.05, 5.24]	
Total (95% CI)		32		32	100.0%	0.50 [0.05, 5.24]	
Total events	1		2				
Heterogeneity: Not applicable Test for overall effect: Z = 0.58 (P = 0.56)	ŝ					3	0.01 0.1 1 10 100 Favours [DMARD+PSL] Favours [DMARD]

Any AE

	DMARD	PSL	DMAR	RD		Risk Ratio	Risk Ratio
Study or Subgroup	Events Total		Events	Total	Weight	M-H, Random, 95% CI	M-H, Random, 95% Cl
Muller 2017, DMARD+PSL vs DMARD	9	32	7	32	100.0%	1.29 [0.55, 3.03]	
Total (95% CI)		32		32	100.0%	1.29 [0.55, 3.03]	-
Total events Heterogeneity: Not applicable	9		7			an ti ana	
Test for overall effect Z = 0.57 (P = 0.57)						1	0.01 0.1 i 10 100 Favours [DMARD+PSL] Favours [DMARD]

Gastrointestinal

	DMARD+	DMAR	RD		Risk Ratio	Risk Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% C	M-H, Random, 95% Cl
Muller 2017, DMARD+PSL vs DMARD	14	32	7	32	100.0%	2.00 [0.93, 4.29]	
Total (95% CI)		32		32	100.0%	2.00 [0.93, 4.29]	-
Total events	14		7				
Heterogeneity: Not applicable							
Test for overall effect: Z = 1.78 (P = 0.08)	l.						Favours [DMARD+PSL] Favours [DMARD]

Infection

	DMARD-	PSL	DMAR	RD		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H. Random, 95% C	M-H. Random, 95% CI
Muller 2017, DMARD+PSL vs DMARD	6	32	8	32	100.0%	0.75 [0.29, 1.92]	
Total (95% CI)		32		32	100.0%	0.75 [0.29, 1.92]	-
Total events Heterogeneity: Not applicable	6		8				t
Test for overall effect Z = 0.60 (P = 0.55)	0						0.01 0.1 i 10 100 Favours [DMARD+PSL] Favours [DMARD]

No.	検索式	検索件数
1	(arthritis, juvenile[MeSH Terms]) OR (arthritis, juvenile[Title/Abstract])	11,631
2	(polyarthritis[MeSH Terms]) OR (pauciarticular[MeSH Terms]) OR (oligoarthritis[MeSH Terms]) OR (monoarthritis[MeSH Terms])	290,608
3	(polyarthritis[Title/Abstract]) OR (pauciarticular[Title/Abstract]) OR (oligoarthritis[Title/Abstract]) OR (monoarthritis[Title/Abstract])	11,646
4	(#2) OR (#3)	292,689
5	(#1) AND (#4)	11,518
6	etanercept OR adalimumab OR infliximab OR golimumab OR certolizumab OR TNF inhibitor OR TNF blockage	82,337
7	(#5) AND (#6)	875

データベース: PubMed, ~2022/12/31

検索日 2023/1/9

No.	検索式	検索件数
1	(arthritis, juvenile):ti,ab,kw	1,013
2	(etanercept OR adalimumab OR infliximab OR golimumab OR certolizumab OR TNF inhibitor OR TNF blockage)	9,691
3	(#1) AND (#2)	242

データベース: Cochrane, ~2022/12/31

検索日 2023/1/9

No.	検索式	検索件数
1	(関節炎-若年性/TH or 若年性特発性関節炎/AL)	3,748
2	関節型/AL or 少関節/AL or 多関節/AL	2,200
3	#1 and #2	402
	(Etanercept/TH or エタネルセプト/AL) or (Adalimumab/TH or アダリムマブ/AL) or (Infliximab/TH or インフリキシマブ/AL) or (Golimumab/TH or ゴリムマブ/AL) or (("Certolizumab Pegol"/TH or Certolizumab/AL) and Pegol/TH or セルトリズマブ/AL) or ((腫瘍壊死因子アルファ/TH or TNF/AL) and inhibitor/AL or (腫瘍壊死因子アルファ /TH or TNF/AL) and blockage/AL or (腫瘍壊死因子アルファ/TH or TNF/AL) and blockade/AL or (腫瘍壊死因子アルファ/TH or TNF/AL) and blocker/AL and or腫瘍壊 死因子阻害薬/AL)	16,537
5	#3 and #4	80
6	#5 and (PT=会議録除く)	46

データベース:医中誌,~2022/12/31

検索日 2023/1/9

No.	検索式	検索件数
1	arthritis, juvenile':ab,ti OR 'arthritis, juvenile'/exp	22,831
2	juvenile rheumatoid arthritis':ab,ti OR 'juvenile rheumatoid arthritis'/exp	23,359
3	polyarthritis:ab,ti OR pauciarticular:ab,ti OR oligoarthritis:ab,ti OR monoarthritis:ab,ti	14,657
4	etanercept OR adalimumab OR golimumab OR tocilizumab OR abatacept OR infliximab OR biosimilar	96,414
5	('arthritis, juvenile':ab,ti OR 'arthritis, juvenile'/exp) AND (polyarthritis:ab,ti OR pauciarticular:ab,ti OR oligoarthritis:ab,ti OR monoarthritis:ab,ti) AND (etanercept OR adalimumab OR golimumab OR tocilizumab OR abatacept OR infliximab OR biosimilar) AND ([english]/lim OR [japanese]/lim) AND [abstracts]/lim	281

データベース: Embase, ~2020/12/31

検索日 2021/1/10

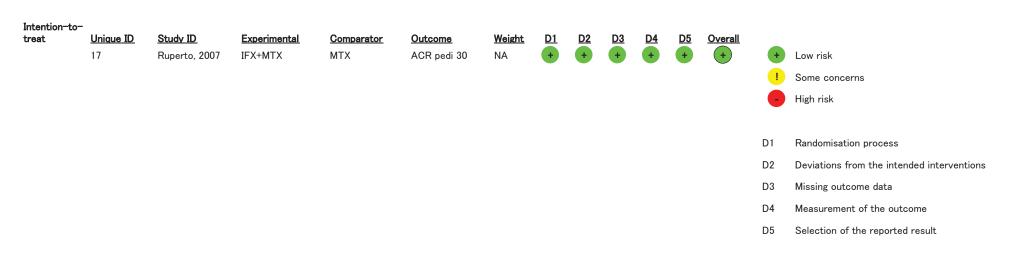
資料B JIA CQ4 文献検索フローチャート

CQ番号 JIA CQ4

MEDLINE 医中誌から CENTRALから Embaseから その他の情報源から (via Pubmed) 特定した文献数 特定した文献数 特定した文献数 特定した文献数 から特定した文献数 0 875 242 281 46 重複文献数 その他の情報源から特定した文献数 重複文献除外後の文献数 1397 47 0) (n =) (n=) (n = スクリーニングした文献数 除外した文献数 (1st Screening) 1397) 1102) (n = (n = 適格性を評価した論文数 (2nd Screening) 除外した論文数 61 41) (n = (n = <除外理由> ・Pが基準を満たさず (n= 3) ・I/Cが基準を満たさず (n= 18) 9) 質的統合に組み入れた研究数/論文数 ・デザインが異なる (n= 研究/ 20 論文) ・Oが基準を満たさず (n= 11) (n = 19 0) Ongoing study (n= ・Publication dateが2022/7/1以降 (n= 0) (meta-analysis) 量的統合に加えた研究数 (n =

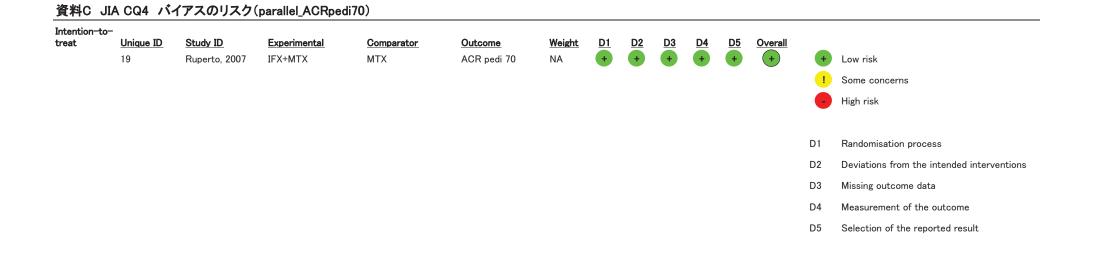
4 研究

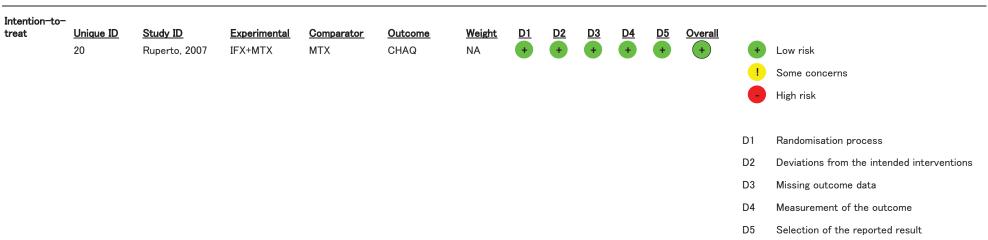
資料C JIA CQ4 バイアスのリスク(parallel_ACRpedi30)



資料C JIA CQ4 バイアスのリスク(parallel_ACRpedi50)







資料C JIA CQ4 バイアスのリスク(parallel_CHAQ-DI変化量)

資料C JIA CQ4 バイアスのリスク(withdrawal(vs.MTX)_Flare)

Intention-to-	-													
treat	<u>Unique ID</u>	Study ID	Experimental	Comparator	Outcome	<u>Weight</u>	<u>D1</u>	<u>D2</u>	<u>D3</u>	<u>D4</u>	<u>D5</u>	<u>Overall</u>		
	39	Lovell, 2008	ADA+MTX	MTX	Flare	NA	+	+	+	+	+	+	+	Low risk
	45	Brunner, 2018	GOL+MTX	MTX	Flare	NA	+	+	+	+	+	+	!	Some concerns
													-	High risk

- D1 Randomisation process
- D2 Deviations from the intended interventions
- D3 Missing outcome data
- D4 Measurement of the outcome
- D5 Selection of the reported result

資料C JIA CQ4 バイアスのリスク(withdrawal(vs.MTX)_ACRpedi30)

Intention-to- treat	<u>Unique ID</u>	Study ID	Experimental	Comparator	Outcome	Weight	<u>D1</u>	<u>D2</u>	<u>D3</u>	<u>D4</u>	D5	<u>Overall</u>		
	35	Lovell, 2008	ADA+MTX	MTX	ACR pedi 30	NA	+	+	+	+	+	+	+	Low risk
	41	Brunner, 2018	GOL+MTX	MTX	ACR pedi 30	NA	+	+	+	+	+	+	!	Some concerns
													•	High risk

- D1 Randomisation process
- D2 Deviations from the intended interventions
- D3 Missing outcome data
- D4 Measurement of the outcome
- D5 Selection of the reported result

資料C JIA CQ4 バイアスのリスク(withdrawal(vs.MTX)_ACRpedi50)

Intention-to- treat	Unique ID 36 42	<u>Study ID</u> Lovell, 2008 Brunner, 2018	Experimental ADA+MTX GOL+MTX	<u>Comparator</u> MTX MTX	<u>Outcome</u> ACR pedi 50 ACR pedi 50	<u>Weight</u> NA NA	<u>D1</u> + +	<u>D2</u> + +	<u>D3</u> + +	<u>D4</u> + +	<u>D5</u> + +	Overall + +	+ ! -	Low risk Some concerns High risk
													D1	Randomisation process
													D2	Deviations from the intended interventions
													D3	Missing outcome data
													D4	Measurement of the outcome
													D5	Selection of the reported result

資料C JIA CQ4 バイアスのリスク(withdrawal(vs.MTX)_ACRpedi70)

Intention-to-														
treat	<u>Unique ID</u>	<u>Studv ID</u>	Experimental	Comparator	Outcome	<u>Weight</u>	<u>D1</u>	<u>D2</u>	<u>D3</u>	<u>D4</u>	<u>D5</u>	<u>Overall</u>	_	
	37	Lovell, 2008	ADA+MTX	MTX	ACR pedi 70	NA	+	+	+	+	+	+	+	Low risk
	43	Brunner, 2018	GOL+MTX	MTX	ACR pedi 70	NA	+	+	+	+	+	+	!	Some concerns
													•	High risk
													D1	Randomisation process
													D2	Deviations from the intended interventions
													D3	Missing outcome data
													D4	Measurement of the outcome

D5 Selection of the reported result

資料C JIA CQ4 バイアスのリスク(withdrawal(vs.MTX)_ACR Pedi90)

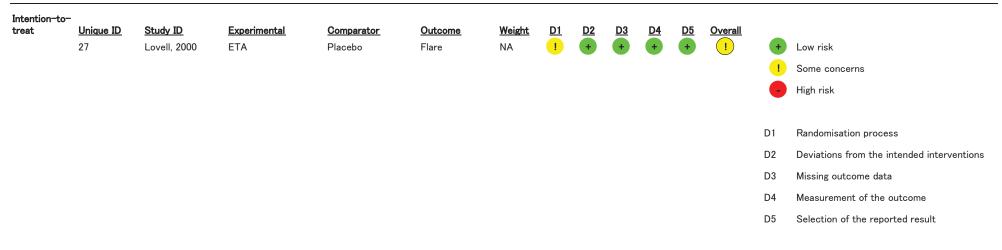
Intention-to-														
treat	<u>Unique ID</u>	Study ID	Experimental	<u>Comparator</u>	Outcome	<u>Weight</u>	<u>D1</u>	<u>D2</u>	D3	<u>D4</u>	D5	<u>Overall</u>		
	38	Lovell, 2008	ADA+MTX	MTX	ACR pedi 90	NA	+	+	+	+	+	+	+	Low risk
	44	Brunner, 2018	GOL+MTX	MTX	ACR pedi 90	NA	+	+	+	+	+	+	!	Some concerns
													•	High risk
													D1	Randomisation process
													D2	Deviations from the intended interventions
													D3	Missing outcome data
													D4	Measurement of the outcome
													D5	Selection of the reported result

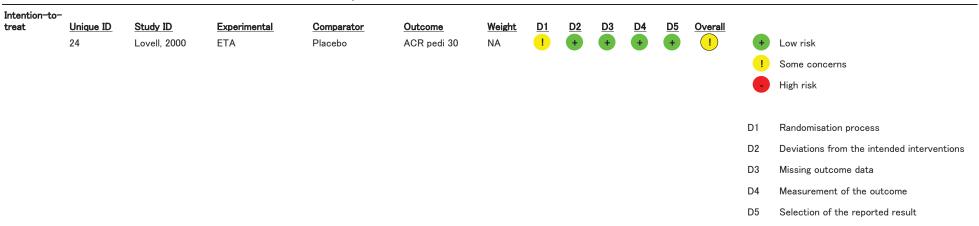
資料C JIA CQ4 バイアスのリスク(withdrawal(vs.MTX)_SAE)

Intention-to- treat	Unique ID 40 46	<u>Study ID</u> Lovell, 2008 Brunner, 2018	Experimental ADA+MTX GOL+MTX	<u>Comparator</u> MTX MTX	<u>Outcome</u> SAE SAE	<u>Weight</u> NA NA	<u>D1</u> +	<u>D2</u> + +	<u>D3</u> + +	<u>D4</u> +	<u>D5</u> + +	Overall + +	+ ! =	Low risk Some concerns High risk
													D1	Randomisation process
													D2	Deviations from the intended interventions

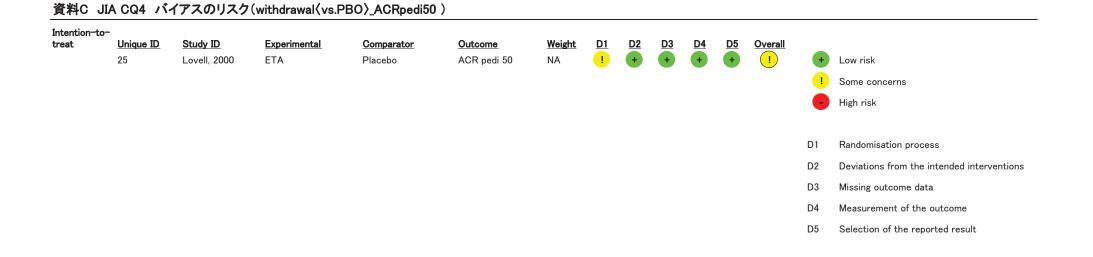
- D3 Missing outcome data
- D4 Measurement of the outcome
- D5 Selection of the reported result

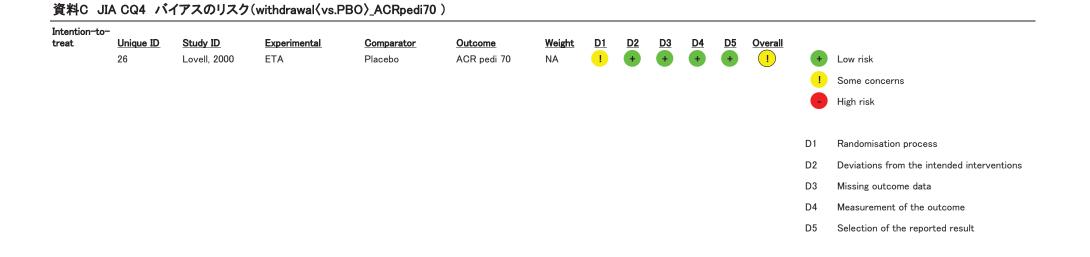
資料C JIA CQ4 バイアスのリスク(withdrawal(vs.PBO)_Flare)





資料C JIA CQ4 バイアスのリスク(withdrawal(vs.PBO)_ACRpedi30)





資料C JIA CQ4 バイアスのリスク(withdrawal(vs.PBO)_SAE)

Intention-to- treat	<u>Unique ID</u> 28	<u>Study ID</u> Lovell, 2000	<mark>Experimental</mark> ETA	<u>Comparator</u> Placebo	<u>Outcome</u> SAE	<u>Weight</u> NA	<u>D1</u> !	<u>D2</u> +	<u>D3</u> +	<u>D4</u> +	<u>D5</u> +	Overall +	+ ! =	Low risk Some concerns High risk
													D1	Randomisation process
													D2	Deviations from the intended interventions
													D3	Missing outcome data
													D4	Measurement of the outcome
													D5	Selection of the reported result

資料 D JIA CQ4 エビデンスプロファイル (parallel) Question: TNFi + MTX compared to MTX for JIA

			Certainty as	sessment			Nº of p	atients	Effec	t		
Nº of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	TNFi+MTX	МТХ	Relative (95% CI)	Absolute (95% Cl)	Certainty	Importance
ACRpedi	30											
1	randomised trials	not serious	not serious	seriousª	serious ^b	none	37/58 (63.8%)	29/59 (49.2%)	RR 1.30 (0.94 to 1.79)	147 more per 1,000 (from 29 fewer to 388 more)		CRITICAL
ACRpedi	50		•		••					•	••	
1	randomised trials	not serious	not serious	seriousª	serious ^b	none	29/58 (50.0%)	20/59 (33.9%)	RR 1.48 (0.95 to 2.29)	163 more per 1,000 (from 17 fewer to 437 more)		IMPORTANT
ACRpedi	70						:			•	••	
1	randomised trials	not serious	not serious	seriousª	serious ^b	none	13/58 (22.4%)	7/59 (11.9%)	RR 1.89 (0.81 to 4.40)	106 more per 1,000 (from 23 fewer to 403 more)		IMPORTANT
CHAQ-DI	変化量											
1	randomised trials	not serious	not serious	seriousª	serious	none	58	59	-	MD 0.12 lower (0.37 lower to 0.13 higher)		CRITICAL

CI: confidence interval; MD: mean difference; RR: risk ratio

Explanations

a. Patients with other types of JIA are included.
b. The 95% confidence interval of risk ratio includes decision threshold of 1.25.
c. The 95% confidence interval of risk ratio includes decision threshold of -0.22.

資料 D JIA CQ4 エビデンスプロファイル (withdrawal (vs. MTX)) Question: TNFi + MTX compared to MTX for JIA

			Certainty asse	ssment			Nº of pa	itients	Effe	ect		
Nº of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	TNFi+MTX	MTX	Relative (95% Cl)	Absolute (95% Cl)	Certainty	Importance
flare												
2	randomised trials	not serious	serious ^a	not serious	serious°	none	46/116 (39.7%)	60/113 (53.1%)	RR 0.75 (0.56 to 0.99)	133 fewer per 1,000 (from 234 fewer to 5 fewer)		CRITICAL
ACRpedi30)		<u>.</u>			<u>.</u>			<u>.</u>		<u>.</u>	
2	randomised trials	not serious	serious ^a	not serious	serious ^b	none	65/116 (56.0%)	56/113 (49.6%)	RR 1.13 (0.88 to 1.45)	64 more per 1,000 (from 59 fewer to 223 more)		CRITICAL
ACRpedi50)				•				•	•		
2	randomised trials	not serious	serious ^a	not serious	serious ^b	none	64/116 (55.2%)	55/113 (48.7%)	RR 1.13 (0.88 to 1.46)	63 more per 1,000 (from 58 fewer to 224 more)		IMPORTANT
ACRpedi70)	•		•	•			•	•	•		
2	randomised trials	not serious	serious ^a	not serious	serious ^b	none	61/116 (52.6%)	46/113 (40.7%)	RR 1.29 (0.97 to 1.72)	118 more per 1,000 (from 12 fewer to 293 more)		IMPORTANT
ACRpedi90)	,	<u></u>	,	ł	<u></u>	,	1	1	ł	<u></u>	<u>.</u>
2	randomised trials	not serious	not serious	not serious	serious ^b	none	46/116 (39.7%)	34/113 (30.1%)	RR 1.32 (0.92 to 1.89)	96 more per 1,000 (from 24 fewer to 268 more)	Moderate	IMPORTANT
SAE	•	,			•		,		•	•		<u> </u>
2	randomised trials	not serious	not serious	not serious	very serious ^{b,c}	none	8/116 (6.9%)	11/113 (9.7%)	RR 0.72 (0.31 to 1.67)	27 fewer per 1,000 (from 67 fewer to 65 more)		CRITICAL

CI: confidence interval; RR: risk ratio

Explanations

a. I2 is more than 40%.
b. The 95% confidence interval of risk ratio includes decision threshold of 1.25.
c. The 95% confidence interval of risk ratio includes decision threshold of 0.75.

資料 D JIA CQ4 エビデンスプロファイル (withdrawal (vs.PBO)) Question: TNFi compared to placebo for JIA

			Certainty ass	sessment			Nº of p	atients	Effe	ect		
Nº of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	TNFi	placebo	Relative (95% CI)	Absolute (95% Cl)	Certainty	Importance
Flare(16v	v)											
1	randomised trials	not serious	not serious	not serious	seriousª	none	7/25 (28.0%)	21/26 (80.8%)	RR 0.35 (0.18 to 0.67)	525 fewer per 1,000 (from 662 fewer to 267 fewer)		CRITICAL
ACRpedi	30(16w)			•			•			•		
1	randomised trials	not serious	not serious	not serious	seriousª	none	20/25 (80.0%)	9/26 (34.6%)	RR 2.31 (1.32 to 4.06)	453 more per 1,000 (from 111 more to 1,000 more)		CRITICAL
ACRpedi	50(16w)		•	•	· · · · · ·		•	•	•	•		
1	randomised trials	not serious	not serious	not serious	seriousª	none	18/25 (72.0%)	6/26 (23.1%)	RR 3.12 (1.48 to 6.56)	489 more per 1,000 (from 111 more to 1,000 more)		IMPORTANT
ACRpedi	70(16w)		·	·	·		;	-	•			
1	randomised trials	not serious	not serious	not serious	serious ^b	none	11/25 (44.0%)	5/26 (19.2%)	RR 2.29 (0.93 to 5.65)	248 more per 1,000 (from 13 fewer to 894 more)		IMPORTANT
SAE(16w	k)		•	•	· · · · ·		•	•		•	· · · · · · · · · · · · · · · · · · ·	
1	randomised trials	not serious	not serious	not serious	very serious°	none	2/25 (8.0%)	0/26 (0.0%)	RR 5.19 (0.26 to 103.07)	0 fewer per 1,000 (from 0 fewer to 0 fewer)		CRITICAL

CI: confidence interval; RR: risk ratio

Explanations

a. Sample size is small.b. The 95% confidence interval of risk ratio includes decision threshold of 1.25.c. The 95% confidence interval of risk ratio includes decision thresholds of 0.75 and 1.25.

資料 E JIA CQ4 フォレストプロット(parallel)

ACRpedi30

	TNFi+M	/ITX	МТХ	(Risk Ratio		Risk	Ratio		
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% (3	M-H, Ran	dom, 95% C	1	
Ruperto,2007 (IFX+MTXvsMTX)	37	58	29	59	100.0%	1.30 [0.94, 1.79]					
Total (95% CI)		58		59	100.0%	1.30 [0.94, 1.79]					
Total events	37		29								
Heterogeneity: Not applicable Test for overall effect: Z = 1.58 (P	= 0.11)						0.01	0.1 Favours [MTX	1] Favours	10 [TNFi+l	100 MTX]

ACRpedi50

	TNFi+M	/ITX	MTX			Risk Ratio		Ris	sk Ratio		
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% C	I	M-H, Ran	dom, 95% (CL	
Ruperto,2007 (IFX+MTXvsMTX)	29	58	20	59	100.0%	1.48 [0.95, 2.29]					
Total (95% CI)		58		59	100.0%	1.48 [0.95, 2.29]					
Total events	29		20				1	1		I	1
Heterogeneity: Not applicable Test for overall effect: Z = 1.73 (P	= 0.08)						0.01	0.1 Favours [MT]	1 X] Favours	10 § [TNFi+l	100 MTX]

ACRpedi70

	TNFi+M	//TX	МТХ	(Risk Ratio		Ri	sk Ratio		
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% C	1	M-H, Ra	ndom, 95%	CI	
Ruperto,2007 (IFX+MTXvsMTX)	13	58	7	59	100.0%	1.89 [0.81, 4.40]				-	
Total (95% CI)		58		59	100.0%	1.89 [0.81, 4.40]					
Total events	13		7				L				
Heterogeneity: Not applicable Test for overall effect: Z = 1.48 (P =	= 0.14)						0.01	0.1 Favours [MT	1 [X] Favou	10 rs [MTX+1	100 ['] [NFi]

CHAQ-DI 変化量

	TN	Fi+MT	X	1	MTX			Mean Differen	nce		M	ean Differen	се	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 9	95% C	Я	IV, Ra	andom, 95%	6 CI	
Ruperto,2007 (IFX+MTXvsMTX)	0.92	0.76	58	1.04	0.61	59	100.0%	-0.12 [-0.37, 0).13]					
Total (95% CI)			58			59	100.0%	-0.12 [-0.37, 0).13]					
Heterogeneity: Not applicable Test for overall effect: Z = 0.94 (P	= 0.35)								+	-100 Favo	-50 urs [TNFi-	0 +MTX] Favo	50 urs [MTX]	100

Flare

	TNFi+A	ΙТХ	MTX	(Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M-H, Random, 95% Cl
Brunner 2018	32	78	36	76	57.5%	0.87 [0.61, 1.24]	
Lovvel 2008	14	38	24	37	42.5%	0.57 [0.35, 0.92]	
Total (95% CI)		116		113	100.0%	0.72 [0.48, 1.09]	•
Total events	46		60				
Heterogeneity: Tau ² =	0.04; Chi2	= 1.92	df = 1 (P	= 0.17); l ² = 48%		
Test for overall effect:	Z = 1.55 (I	P = 0.1	2)			0.0	1 0.1 1 10 100 Favours [TNFi+MTX] Favours [MTX]

ACRpedi30

	TNFi+M	NTX	MTX	(Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M-H, Random, 95% Cl
Brunner 2018	41	78	42	76	55.9%	0.95 [0.71, 1.27]	+
Lovvel 2008	24	38	14	37	44.1%	1.67 [1.03, 2.70]	
Total (95% CI)		116		113	100.0%	1.22 [0.70, 2.11]	+
Total events	65		56				
Heterogeneity: Tau ² =	0.12; Chi2	= 3.88	df = 1 (F	9 = 0.05	5); l² = 74%	. –	01 0.1 1 10 100
Test for overall effect:	Z = 0.71 (I	P = 0.4	8)			0.1	01 0.1 1 10 100 Favours [MTX] Favours [TNFi+MTX]

ACRpedi50

	TNFi+M	XTN	MTX	£		Risk Ratio		Ris	sk Ratio		
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% C	I	M-H, Ra	ndom, 95%	CI	
Brunner 2018	40	78	41	76	55.7%	0.95 [0.70, 1.28]			-		
Lovvel 2008	24	38	14	37	44.3%	1.67 [1.03, 2.70]			-		
Total (95% CI)		116		113	100.0%	1.22 [0.70, 2.11]			٠		
Total events	64		55								
Heterogeneity: Tau ² =	0.12; Chi2	= 3.83	df = 1 (P	= 0.05	5); l ² = 74%	6	- 0.01		-	10	100
Test for overall effect:	Z = 0.71 (P = 0.4	8)				0.01	0.1 Favours[MT	X] Favours	[TNFi+M	

ACRpedi70

	TNFi+M	XTN	MTX	(Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M-H, Random, 95% CI
Brunner 2018	37	78	36	76	54.1%	1.00 [0.72, 1.40]	+
Lovvel 2008	24	38	10	37	45.9%	2.34 [1.31, 4.18]	
Total (95% CI)		116		113	100.0%	1.48 [0.64, 3.40]	-
Total events	61		46				
Heterogeneity: Tau ² =	0.31; Chi2	= 6.23	df = 1 (F	9 = 0.01); 2 = 84%		0,1 1 10 100
Test for overall effect:	Z = 0.92 (P = 0.3	6)			0.01	0.1 1 10 100 Favours [MTX] Favours [TNFi+MTX]

ACRpedi90

	TNFi+MTX MTX I					Risk Ratio	Risk Ratio				
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M-H, Random, 95% Cl				
Brunner 2018	30	78	24	76	69.0%	1.22 [0.79, 1.88]	-				
Lovvel 2008	16	38	10	37	31.0%	1.56 [0.82, 2.98]	+				
Total (95% CI)		116		113	100.0%	1.31 [0.92, 1.89]	•				
Total events	46		34								
Heterogeneity: Tau ² =	0.00; Chi ²	= 0.38	df = 1 (P	= 0.54); l ² = 0%	L.					
Test for overall effect:	Z = 1.49 (P = 0.14	4)			0.0	1 0.1 1 10 100 Favours [MTX] Favours [TNFi+MTX]				

	TNFi+f	XTN	MTX	(Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M-H, Random, 95% CI
Brunner 2018	8	78	10	76	92.9%	0.78 [0.33, 1.87]	
Lovvel 2008	0	38	1	37	7.1%	0.32 [0.01, 7.73]	
Total (95% CI)		116		113	100.0%	0.73 [0.32, 1.70]	-
Total events	8		11				
Heterogeneity: Tau ² =	0.00; Chi2	= 0.27	df = 1 (P	= 0.60); l ² = 0%		
Test for overall effect:	Z = 0.72 (P = 0.4	7)				0.01 0.1 1 10 100 Favours [TNFi+MTX] Favours [MTX]

SAE

Flare(16w)

	TNF	i	Place	bo		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M-H, Random, 95% Cl
Lovell, 2000 (ETN vs PLA)	7	25	21	26	100.0%	0.35 [0.18, 0.67]	
Total (95% CI)		25		26	100.0%	0.35 [0.18, 0.67]	•
Total events	7		21				
Heterogeneity: Not applicable	;					0.01	
Test for overall effect: Z = 3.1	7 (P = 0.0	002)				0.01	0.1 1 10 100 Favours [TNFi] Favours [Placebo]

ACRpedi30(16w)

	TNF	i	Place	00		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95	% CI M-H, Random, 95% CI
Lovell, 2000 (ETN vs PLA)	20	25	9	26	100.0%	2.31 [1.32, 4.06]	-
Total (95% CI)		25		26	100.0%	2.31 [1.32, 4.06]	•
Total events	20		9				
Heterogeneity: Not applicable Test for overall effect: Z = 2.9		004)					0.01 0.1 1 10 100 Favours [Placebo] Favours [TNFi]

ACRpedi50(16w)

	TNFi	i	Placel	bo		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M-H, Random, 95% CI
Lovell, 2000 (ETN vs PLA)	18	25	6	26	100.0%	3.12 [1.48, 6.56]	
Total (95% CI)		25		26	100.0%	3.12 [1.48, 6.56]	•
Total events	18		6				
Heterogeneity: Not applicable Test for overall effect: Z = 3.0		03)				0.01	0.1 1 10 100 Favours [Placebo] Favours [TNFi]

ACRpedi70(16w)

	TNF	i	Placel	00		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% C	M-H, Random, 95% CI
Lovell, 2000 (ETN vs PLA)	11	25	5	26	100.0%	2.29 [0.93, 5.65]	
Total (95% CI)		25		26	100.0%	2.29 [0.93, 5.65]	•
Total events	11		5				
Heterogeneity: Not applicable	Э						
Test for overall effect: Z = 1.8	80 (P = 0.0)7)				0.0*	1 0.1 1 10 100 Favours [Placebo] Favours [TNFi]

SAE(16w)

	TNF	i	Placel	00		Risk Ratio		Risk Ra	tio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95%	6 CI	M-H, Random	n, 95% CI	
Lovell, 2000 (ETN vs PLA)	2	25	0	26	100.0%	5.19 [0.26, 103.07]				
Total (95% CI)		25		26	100.0%	5.19 [0.26, 103.07]				
Total events	2		0							
Heterogeneity: Not applicable Test for overall effect: Z = 1.08		28)					0.01	0.1 1 Favours [TNFi] Fa	10 avours [Placeb	100 o]

No.	検索式	検索件数		
1	(arthritis, juvenile[MeSH Terms]) OR (arthritis, juvenile[Title/Abstract])	11,667		
2	(polyarthritis[MeSH Terms]) OR (pauciarticular[MeSH Terms]) OR	291,339		
Z	(oligoarthritis[MeSH Terms]) OR (monoarthritis[MeSH Terms])			
3	(polyarthritis[Title/Abstract]) OR (pauciarticular[Title/Abstract]) OR	11,668		
	(oligoarthritis[Title/Abstract]) OR (monoarthritis[Title/Abstract])	11,000		
4	(#2) OR (#3)	293,428		
5	(#1) AND (#4)	11,553		
6	tocilizumab OR sarilumab OR IL-6 inhibitor OR IL-6 blockage OR IL-6 blockade OR	38,694		
	IL-6 blocker	38,094		
7	(#5) AND (#6)	319		

データベース: PubMed, ~2022/12/31

検索日 2023/2/1

No.	検索式	検索件数
1	(arthritis, juvenile):ti,ab,kw	1018
2	(tocilizumab OR sarilumab OR IL-6 inhibitor OR IL-6 blockage OR IL-6 blockade OR IL-6 blocker)	16,007
3	(#1) AND (#2)	128

データベース: Cochrane, ~2022/12/31

検索日 2023/2/1

No.	検索式	検索件数
1	(関節炎-若年性/TH or 若年性特発性関節炎/AL)	3,762
2	関節型/AL or 少関節/AL or 多関節/AL	2,203
3	#1 and #2	402
4	(Tocilizumab/TH or トシリズマブ/AL) or (Sarilumab/TH or サリルマブ/AL) or (IL-6 inhibitor/AL or IL-6 blockage/AL or IL-6 blockade/AL or IL-6 blocker/AL orインター ロイキン6阻害薬/AL)	5,678
5	#3 and #4	73
6	#5 and (PT=会議録除く)	36

データベース:医中誌,~2022/12/31

検索日 2023/2/1

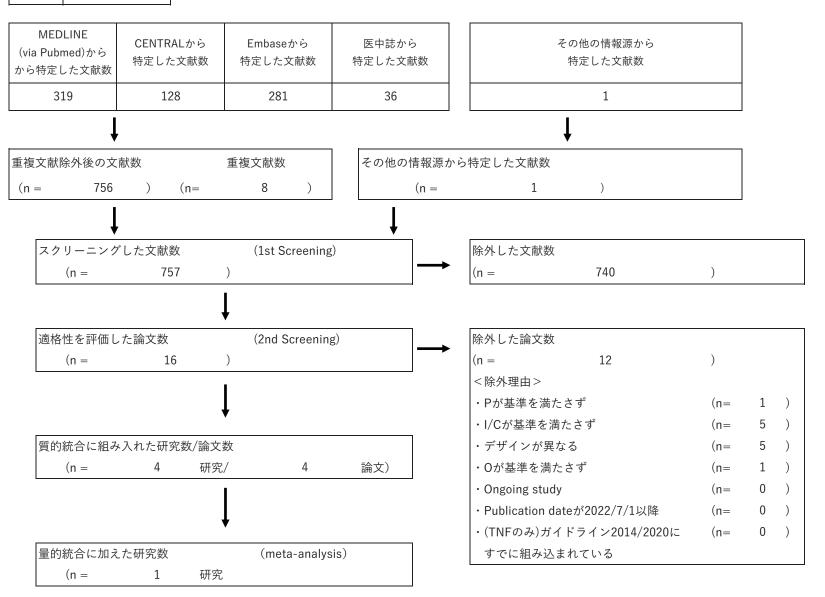
No.	検索式	検索件数
1	arthritis, juvenile':ab,ti OR 'arthritis, juvenile'/exp	22,831
2	juvenile rheumatoid arthritis':ab,ti OR 'juvenile rheumatoid arthritis'/exp	23,359
3	polyarthritis:ab,ti OR pauciarticular:ab,ti OR oligoarthritis:ab,ti OR monoarthritis:ab,ti	14,657
4	etanercept OR adalimumab OR golimumab OR tocilizumab OR abatacept OR	96,414
4	infliximab OR biosimilar	50,414
5	('arthritis, juvenile':ab,ti OR 'arthritis, juvenile'/exp) AND (polyarthritis:ab,ti OR	
	pauciarticular:ab,ti OR oligoarthritis:ab,ti OR monoarthritis:ab,ti) AND (etanercept	281
	OR adalimumab OR golimumab OR tocilizumab OR abatacept OR infliximab OR	201
	biosimilar) AND ([english]/lim OR [japanese]/lim) AND [abstracts]/lim	

データベース:Embase, ~2020/12/31

検索日 2021/1/10

資料B JIA CQ5 文献検索フローチャート

CQ番号 JIA CQ5



資料C JIA CQ5 バイアスのリスク(flare)

Intention-to- treat	<u>Unique ID</u> 1	<u>Study ID</u> Brunner, 2015	<u>Experimental</u> TCZ+MTX	<u>Comparator</u> MTX	<u>Outcome</u> Flare	<u>Weight</u> NA	<u>D1</u> +	<u>D2</u> +	<u>D3</u> +	<u>D4</u> +	<u>D5</u> +	Overall +	+ ! =	Low risk Some concerns High risk
													D1	Randomisation process
													D2	Deviations from the intended interventions
													D3	Missing outcome data
													D4	Measurement of the outcome
													D5	Selection of the reported result

資料C JIA CQ5 バイアスのリスク(ACR pedi 30)

Intention-to- treat	<u>Unique ID</u> 1	<u>Study ID</u> Brunner, 2015	<u>Experimental</u> TCZ+MTX	<u>Comparator</u> MTX	<u>Outcome</u> ACR pedi 30	<u>Weight</u> NA	<u>D1</u> +	<u>D2</u> +	<u>D3</u> +	<u>D4</u> +	<u>D5</u> +	Overall +	+	Low risk Some concerns High risk
													D1	Randomisation process
													D2	Deviations from the intended interventions
													D3	Missing outcome data
													D4	Measurement of the outcome
													D5	Selection of the reported result

資料C JIA CQ5 バイアスのリスク(ACR pedi 50)

Intention-to- treat	<u>Unique ID</u> 1	<u>Study ID</u> Brunner, 2015	<u>Experimental</u> TCZ+MTX	<u>Comparator</u> MTX	<u>Outcome</u> ACR pedi 50	<u>Weight</u> NA	<u>D1</u> +	<u>D2</u> +	<u>D3</u> +	<u>D4</u> +	<u>D5</u> +	Overall +	+ ! =	Low risk Some concerns High risk
													D1	Randomisation process
													D2	Deviations from the intended interventions
													D3	Missing outcome data
													D4	Measurement of the outcome
													D5	Selection of the reported result

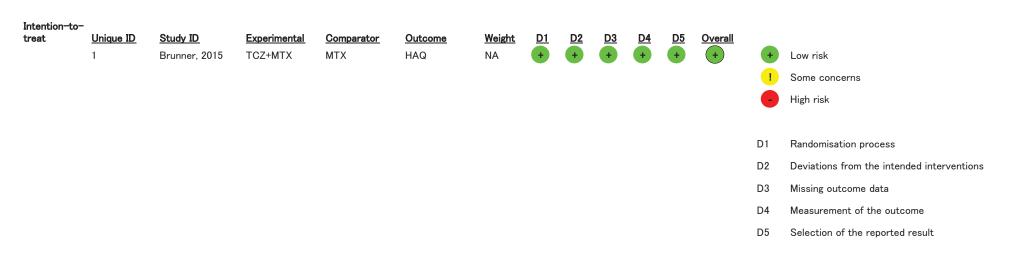
資料C JIA CQ5 バイアスのリスク(ACR pedi 70)

I	ntention-to-														
t	reat	<u>Unique ID</u>	Study ID	Experimental	Comparator	Outcome	<u>Weight</u>	<u>D1</u>	<u>D2</u>	<u>D3</u>	<u>D4</u>	<u>D5</u>	<u>Overall</u>		
		1	Brunner, 2015	TCZ+MTX	MTX	ACR pedi 70	NA	+	+	+	+	+	+	+	Low risk
														!	Some concerns
														•	High risk
														D1	Randomisation process
														D2	Deviations from the intended interventions
														D3	Missing outcome data
														D4	Measurement of the outcome
														D5	Selection of the reported result

資料C JIA CQ5 バイアスのリスク(ACR pedi 90)

Intention-to- treat	- <u>Unique ID</u> 1	<u>Study ID</u> Brunner, 2015	<u>Experimental</u> TCZ+MTX	<u>Comparator</u> MTX	<u>Outcome</u> ACR pedi 90	<u>Weight</u> NA	<u>D1</u> +	<u>D2</u> +	<u>D3</u> +	<u>D4</u> +	<u>D5</u> +	Overall +	+ ! =	Low risk Some concerns High risk
													D1	Randomisation process
													D2	Deviations from the intended interventions
													D3	Missing outcome data
													D4	Measurement of the outcome
													D5	Selection of the reported result

資料C JIA CQ5 バイアスのリスク(CHAQ-DI変化量)



資料C JIA CQ5 バイアスのリスク(SAE)

Intention-to- treat	- <u>Unique ID</u> 1	<u>Study ID</u> Brunner, 2015	Experimental TCZ+MTX	<u>Comparator</u> MTX	<u>Outcome</u> SAE	<u>Weight</u> NA	<u>D1</u> +	<u>D2</u> +	<u>D3</u> +	<u>D4</u> +	<u>D5</u> +	Overall +	+ !	Low risk Some concerns High risk
													D1	Randomisation process
													D2	Deviations from the intended interventions
													D3	Missing outcome data
													D4	Measurement of the outcome
													D5	Selection of the reported result

資料 D JIA CQ5 エビデンスプロファイル Question: IL-6i+MTX compared to placebo+MTX for pJIA

			Certainty a	issessment			Nº of p	oatients	Effe	ct		
Nº of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	IL-6i+MTX	placebo+MTX	Relative (95% CI)	Absolute (95% CI)	Certainty	Importance
flare												
1	randomised trials	not serious	not serious	not serious	serious ^{a,c}	none	21/82 (25.6%)	39/81 (48.1%)	RR 0.53 (0.35 to 0.82)	226 fewer per 1,000 (from 313 fewer to 87 fewer)		CRITICAL
ACR pedi 30			•	·	·		<u>.</u>	÷	÷	•	÷	
1	randomised trials	not serious	not serious	not serious	serious ^{a,b}	none	61/82 (74.4%)	44/81 (54.3%)	RR 1.37 (1.08 to 1.74)	201 more per 1,000 (from 43 more to 402 more)		CRITICAL
ACR pedi 50							-		-			
1	randomised trials	not serious	not serious	not serious	serious ^{a,b}	none	60/82 (73.2%)	42/81 (51.9%)	RR 1.41 (1.10 to 1.81)	213 more per 1,000 (from 52 more to 420 more)		IMPORTANT
ACR pedi 70	•:		:				•	÷	:	• •	· · ·	
1	randomised trials	not serious	not serious	not serious	serious ^{a,b}	none	53/82 (64.6%)	34/81 (42.0%)	RR 1.54 (1.14 to 2.08)	227 more per 1,000 (from 59 more to 453 more)		IMPORTANT
ACR pedi 90			•									
1	randomised trials	not serious	not serious	not serious	serious ^{a,b}	none	37/82 (45.1%)	19/81 (23.5%)	RR 2.68 (1.37 to 5.26)	394 more per 1,000 (from 87 more to 999 more)		IMPORTANT
CHAQ-DI 変	化量											
1	randomised trials	not serious	not serious	not serious	serious ^{a,d}	none	82	81	-	MD 0.08 lower (0.29 lower to 0.13 higher)		CRITICAL
SAE				•	•					· ·		
1	randomised trials	not serious	not serious	not serious	very serious ^{a,e}	none	3/82 (3.7%)	3/81 (3.7%)	RR 0.99 (0.21 to 4.75)	0 fewer per 1,000 (from 29 fewer to 117 more)		CRITICAL

CI: confidence interval; MD: mean difference; OR: odds ratio; RR: risk ratio

Explanations

a. Sample size is small

b. The 95% confidence interval of risk ratio includes decision threshold of 1.25.
 c. The 95% confidence interval of risk ratio includes decision threshold of 0.75.

d. The 95% confidence interval of risk ratio includes decision threshold of -0.22
 e. The 95% confidence interval of risk ratio includes decision thresholds of 0.75 and 1.25.

flare

	TCZ+N	тх	placebo+	MTX		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Tota	Events	Tota	Weight	M-H, Random, 95% CI	M-H, Random, 95% CI
Brunner 2015	21	82	39	81	100.0%	0.53 [0.35, 0.82]	
Total (95% CI)		82		81	100.0%	0.53 [0.35, 0.82]	◆
Total events	21		39				
Heterogeneity: Not ap Test for overall effect:	•	⊃ = 0.0	04)			0.01	0.1 1 10 100 TCZ+MTX placebo+MTX

ACR pedi 30

	placebo+	MTX	TCZ+N	ΙТΧ		Risk Ratio	Risk	Ratio	
Study or Subgroup	Events	Tota	Events	Tota	Weight	M-H, Random, 95% CI	M-H, Ran	dom. 95% CI	
Brunner 2015	44	81	61	82	100.0%	0.73 [0.58, 0.93]			
Total (95% CI)		81		82	100.0%	0.73 [0.58, 0.93]	•		
Total events	44		61						
Heterogeneity: Not ap Test for overall effect:		= 0.009	3)			ш. 0.0)1 0.1 placebo+MTX	 1 10 тсz+мтх	100

ACR pedi 50

	placebo+	MTX	TCZ+M	ITX		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Tota	Events	Tota	Weight	M-H. Random. 95% CI	M-H. Random. 95% CI
Brunner 2015	42	81	60	82	100.0%	0.71 [0.55, 0.91]	
Total (95% CI)		81		82	100.0%	0.71 [0.55, 0.91]	•
Total events	42		60				
Heterogeneity: Not ap Test for overall effect:	•	= 0.008	i)			L 0.0	1 0.1 1 10 100 placebo+MTX TCZ+MTX

ACR pedi 70

	placebo+	MTX	TCZ+N	ΙТΧ		Risk Ratio		Risk	Ratio	
Study or Subgroup	Events	Tota	Events	Tota	Weight	M-H, Random, 95% C	1	M-H. Ran	dom. 95% Cl	
Brunner 2015	34	81	53	82	100.0%	0.65 [0.48, 0.88]				
Total (95% CI)		81		82	100.0%	0.65 [0.48, 0.88]		•		
Total events	34		53							
Heterogeneity: Not ap Test for overall effect:	•	= 0.005	j)				0.01	0.1 placebo+MTX	1 10 TCZ+MTX	100

ACR pedi 90

	placebo+	MTX	TCZ+M	тх		Risk Ratio	Risk Ratio	
Study or Subgroup	Events	Tota	Events	Tota	Weight	M-H. Random. 95% CI	M-H. Random. 95% CI	
Brunner 2015	19	81	37	82	100.0%	0.52 [0.33, 0.82]		
Total (95% CI)		81		82	100.0%	0.52 [0.33, 0.82]	•	
Total events	19		37					
Heterogeneity: Not ap Test for overall effect:		= 0.005	5)			L0.01	I 0.1 1 10 placebo+MTX TCZ+MTX	100

CHAQ-DI 変化量

	T	CZ+MTX		plac	ebo+MT	х		Mean Difference		Mea	n Differen	ce	
Study or Subgroup	Mean	SD	Tota	Mean	SD	Tota	Weight	IV, Random, 95% Cl		IV, R	andom, 95	% CI	
Brunner 2015	-0.804	0.6534	81	-0.724	0.6905	82	100.0%	-0.08 [-0.29, 0.13]					
Total (95% CI) Heterogeneity: Not ap Test for overall effect:		(P = 0.45	81 5)			82	100.0%	-0.08 [-0.29, 0.13]	⊢ -100	-50 TCZ+I	0 MTX place	50 ebo+MTX	100

SAE

	TCZ+N	ITX	placebo	+MTX		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M-H, Random, 95% Cl
Brunner 2015	3	82	3	81	100.0%	0.99 [0.21, 4.75]	
Total (95% CI)		82		81	100.0%	0.99 [0.21, 4.75]	
Total events	3		3				
Heterogeneity: Not ap	plicable					t,	0.01 0.1 1 10 100
Test for overall effect:	Z = 0.02 (P = 0.9	9)				Favours [TCZ+MTX] Favours [placebo+MTX]

資料A JIA CQ6 文献検索式(PubMed)

No.	検索式	検索件数
	(("oligoarthritis"[Title/Abstract] OR "polyarthritis"[Title/Abstract] OR "arthritis"[Title/Abstract])	
#1	AND ("pediat*"[Title/Abstract] OR "paediat*"[Title/Abstract] OR "child*"[Title/Abstract] OR	20,700
	"juvenile"[Title/Abstract])) OR "arthritis, juvenile"[MeSH Terms]	
	"janus kinase inhibitors"[mh] OR "janus kinases"[mh] OR "janus kinase inhibitor*"[tiab] OR "JAK	
#2	inhibitor*"[tiab] OR JAK1*[tiab] OR JAK2*[tiab] OR JAK3*[tiab] OR TYK2*[tiab] OR	24 202
# Z	tsDMARD*[tiab] OR "ts DMARD*"[tiab] OR "targeted synthetic DMARD*"[tiab] OR jakinib*[tiab]	24,392
#3	tofacitinib[nm] OR tofacitinib[tiab] OR tasocitinib[tiab] OR Xeljanz[tiab] OR Jakvinus[tiab] OR	2,513
<i>"</i> 0	CP690*[tiab] OR CP-690*[tiab]	2,010
	baricitinib[nm] OR baricitinib[tiab] OR "baricitinib phosphate"[tiab] OR "baricitinib phosphate salt"	
#4	[tiab] OR Olumiant[tiab] OR INCB028050[tiab] OR INCB-28050[tiab] OR LY3009104[tiab] OR LY-	1,016
	3009104[tiab]	
#5	peficitinib[nm] OR peficitinib[tiab] OR Smyraf[tiab] OR ASP015K[tiab] OR ASP-015K[tiab] OR	97
#5	AS1940150BR[tiab] OR AS-1940150BR[tiab] OR JKT201A[tiab] OR JKT-201A[tiab]	51
#6	upadacitinib[nm] OR upadacitinib[tiab] OR Rinvoq[tiab] OR ABT494[tiab] OR ABT-494[tiab] OR	403
# U	A1293543[tiab] OR A-1293543[tiab]	405
#7	filgotinib [nm] OR filgotinib[tiab] OR Jyseleca[tiab] OR GS6034[tiab] OR GS-6034[tiab] OR	233
πι	GLPG0634[tiab] OR GLPG-0634[tiab]	200
#8	#2 OR #3 OR #4 OR #5 OR #6 OR #7	25,954
	("randomized controlled trial"[pt] OR "controlled clinical trial"[pt] OR "clinical trial"[pt] OR "drug	
#9	therapy"[sh] OR randomly[tiab] OR randomized[tiab] OR randomised[tiab] OR placebo[tiab] OR	4,625,695
#9	trial[tiab] OR groups[tiab]) NOT ("case reports"[pt] OR "case report*"[tiab] OR "case series"[tiab])	4,020,090
	NOT (animals[mh] NOT humans[mh])	
#10	1900/1/1:2022/6/30[dp]	34,291,273
#11	#1 AND #8 AND #9 AND #10	43

データベース: PubMed, ~2022/6/30

検索日 2022/10/25

資料A JIA CQ6 文献検索式(Cochrane)

No.	検索式	検索件数
#1	((oligoarthritis:ti,ab OR polyarthritis:ti,ab OR arthritis:ti,ab) AND (pediat*:ti,ab OR paediat*:ti,ab OR	1,376
# 1	child*:ti,ab OR juvenile:ti,ab)) OR [mh "arthritis, juvenile"]	1,570
#2	(MeSH descriptor: [Janus Kinase Inhibitors] explode all trees)	102
#3	(MeSH descriptor: [Janus Kinases] explode all trees)	159
	("janus kinase" NEXT inhibitor*):ti,ab OR ("JAK" NEXT inhibitor*):ti,ab OR JAK1*:ti,ab OR	
#4	JAK2*:ti,ab OR JAK3*:ti,ab OR TYK2*:ti,ab OR tsDMARD*:ti,ab OR ("ts" NEXT DMARD*):ti,ab OR	2,157
	("targeted synthetic" NEXT DMARD*):ti,ab OR jakinib*:ti,ab	
#5	tofacitinib:ti,ab OR tasocitinib:ti,ab OR Xeljanz:ti,ab OR Jakvinus:ti,ab OR CP690*:ti,ab OR CP-	1,008
# 3	690*:ti,ab	1,008
	baricitinib:ti,ab OR "baricitinib phosphate":ti,ab OR "baricitinib phosphate salt":ti,ab OR	
#6	Olumiant:ti,ab OR INCB028050:ti,ab OR INCB-28050:ti,ab OR LY3009104:ti,ab OR LY-3009104:ti,ab	573
#7	peficitinib:ti,ab OR Smyraf:ti,ab OR ASP015K:ti,ab OR ASP-015K:ti,ab OR AS1940150BR:ti,ab OR	53
#1	AS-1940150BR:ti,ab OR JKT201A:ti,ab OR JKT-201A:ti,ab	55
#8	upadacitinib:ti,ab OR Rinvoq:ti,ab OR ABT494:ti,ab OR ABT-494:ti,ab OR A1293543:ti,ab OR A-	555
#0	1293543:ti,ab	555
#9	filgotinib:ti,ab OR Jyseleca:ti,ab OR GS6034:ti,ab OR GS-6034:ti,ab OR GLPG0634:ti,ab OR GLPG-	310
#9	0634:ti,ab	510
#10	#2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9	3,390
#11	#1 AND #10	42
	("randomized controlled trial":pt OR "controlled clinical trial":pt OR "clinical trial":pt OR [mh "drug	
	therapy"] OR randomly:ti,ab OR randomized:ti,ab OR " randomised":ti,ab OR placebo:ti,ab OR	
#12	trial:ti,ab OR groups:ti,ab)	1,524,399
	NOT ("case reports":pt OR "case" NEXT report*:ti,ab OR "case series":ti,ab) NOT ([mh animals]	
	NOT [mh humans])	
#13	#11 AND #12 with Publication Year from 1900 to 2022, in Trials	42

データベース: Cochrane, ~2022/6/30

検索日 2022/10/11

資料A JIA CQ6 文献検索式(医中誌)

No.	検索式	検索件数
#1	関節炎-若年性/TH OR 若年性特発性関節炎/TA OR 若年性関節炎/TA OR 若年性関節リウマチ/TA OR	
# 1	"juvenile idiopathic arthritis"/TA	4,189
#2	"Janus Kinase Inhibitors"/TH OR "Janus Kinase"/TA OR JAK/TA OR tsDMARD/TA OR "ts DMARD"	
# Z	/TA OR "targeted synthetic DMARD"/TA OR 標的合成疾患修飾性抗リウマチ薬/TA	5,862
#3	Tofacitinib/TH orトファシチニブ/TA or tofacitinib/TA or tasocitinib/TA or ゼルヤンツ/TA or	
#3	Xeljanz/TA or Jakvinus/TA	193
#4	Baricitinib/TH or バリシチニブ/TA or baricitinib/TA or オルミエント/TA or Olumiant/TA	545
#5	Peficitinib/TH or ペフィシチニブ/TA or peficitinib/TA or スマイラフ/TA or Smyraf/TA	85
#6	Upadacitinib/TH or ウパダシチニブ/TA or upadacitinib/TA or リンヴォック/TA or Rinvoq/TA	176
#7	Filgotinib/TH or フィルゴチニブ/TA or filgotinib/TA or ジセレカ/TA or Jyseleca/TA	118
#8	#2 OR #3 OR #4 OR #5 OR #6 OR #7	6,023
#9	DT=1900:2022	15,068,613
#10	#1 AND #8 AND #9	6
#11	#10 and (メタアナリシス/TH or システマティックレビュー/TH or 診療ガイドライン/TH)	1
#12	#10 and (RD=メタアナリシス,診療ガイドライン)	0
#13	#10 and (メタアナリシス/TA or システマティックレビュー/ TA or 診療ガイドライン/ TA)	0
#14	#11 or #12 or #13	1
#15	#10 and 介入研究/TH	0
#16	#10 and (RD=ランダム化比較試験)	0
	#10 and (介入研究/TA or 臨床試験/TA or ランダム化比較試験/TA or 無作為化比較試験/TA or 第I相試	
#17	験/TA or 第Ⅱ相試験/TA or 第Ⅲ相試験/TA or 第Ⅳ相試験/TA or 非劣性試験/TA or 同等性試験/TA or	
	ランダム割付/TA)	0
#18	(#15 or #16 or #17) not #14	0

データベース:医中誌,~2022/6/30

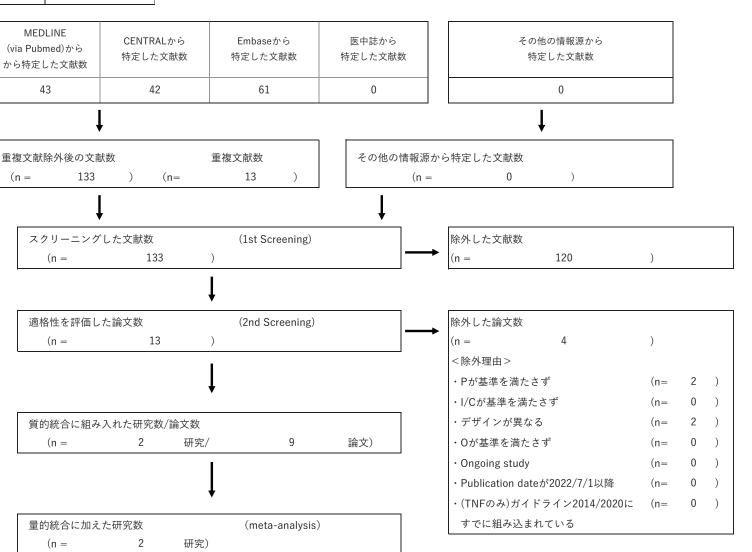
検索日 2022/10/10

	検索式	検索件数
#1	((oligoarthritis:ti,ab OR polyarthritis:ti,ab OR arthritis:ti,ab) AND (pediat*:ti,ab OR paediat*:ti,ab OR child*:ti,ab OR juvenile:ti,ab))	37,424
	OR 'arthritis, juvenile'/exp	01,121
"0	janus kinase inhibitors'/exp OR 'janus kinase inhibitor*':ti,ab OR 'JAK inhibitor*':ti,ab OR JAK1*:ti,ab OR JAK2*:ti,ab OR JAK3*:ti,ab	40.004
#2	OR TYK2*:ti,ab OR tsDMARD*:ti,ab OR 'ts DMARD*:ti,ab OR 'targeted synthetic DMARD*':ti,ab OR jakinib*:ti,ab	49,224
#3	tofacitinib:tn OR tofacitinib:ti,ab OR tasocitinib:ti,ab OR Xeljanz:ti,ab OR Jakvinus:ti,ab OR CP690*:ti,ab OR CP-690*:ti,ab	4,924
	baricitinib:tn OR baricitinib:ti,ab OR 'baricitinib phosphate':ti,ab OR 'baricitinib phosphate salt':ti,ab OR Olumiant:ti,ab OR	
#4	INCB028050:ti,ab OR INCB-28050:ti,ab OR LY3009104:ti,ab OR LY-3009104:ti,ab	1,809
#E	peficitinib:tn OR peficitinib:ti,ab OR Smyraf:ti,ab OR ASP015K:ti,ab OR ASP-015K:ti,ab OR AS1940150BR:ti,ab OR AS-	140
#5	1940150BR:ti,ab OR JKT201A:ti,ab OR JKT-201A:ti,ab	140
#6	upadacitinib:tn OR upadacitinib:ti,ab OR Rinvoq:ti,ab OR ABT494:ti,ab OR ABT-494:ti,ab OR A1293543:ti,ab OR A-1293543:ti,ab	976
#7	filgotinib:tn OR filgotinib:ti,ab OR Jyseleca:ti,ab OR GS6034:ti,ab OR GS-6034:ti,ab OR GLPG0634:ti,ab OR GLPG-0634:ti,ab	541
#8	#2 OR #3 OR #4 OR #5 OR #6 OR #7	49,404
#9	'randomized controlled trial'/de	735,552
#10	'controlled clinical trial'/de	438,345
#11	random*:ti,ab,tt	1,849,306
#12	'randomization'/de	95,295
#13	'intermethod comparison'/de	291,161
#14	placebo:ti,ab,tt	349,537
#15	compare:ti,tt OR compared:ti,tt OR comparison:ti,tt	601,137
#16	(evaluated:ab OR evaluate:ab OR evaluating:ab OR assessed:ab OR assess:ab) AND (compare:ab OR compared:ab OR	2,589,181
#10	comparing:ab OR comparison:ab)	2,309,101
#17	(open NEXT/1 label):ti,ab,tt	101,025
#18	((double OR single OR doubly OR singly) NEXT/1 (blind OR blinded OR blindly)):ti,ab,tt	264,092
#19	'double blind procedure'/de	200,651
#20	(parallel NEXT/1 group*):ti,ab,tt	30,304
#21	(crossover:ti,ab,tt OR 'cross over':ti,ab,tt)	119,146
#22	((assign* OR match OR matched OR allocation) NEAR/6 (alternate OR group OR groups OR intervention OR interventions OR	431,551
#22	patient OR patients OR subject OR subjects OR participant OR participants)):ti,ab,tt	401 100
#23 #24	(assigned:ti,ab,tt OR allocated:ti,ab,tt)	461,190
#24	(controlled NEAR/8 (study OR design OR trial)):ti,ab,tt	430,331 274,346
#25	(volunteer:ti,ab,tt OR volunteers:ti,ab,tt) 'human experiment'/de	599,592
#20	trial:ti,tt	379,107
π∠1	#9 OR #10 OR #11 OR #12 OR #13 OR #14 OR #15 OR #16 OR #17 OR #18 OR #19 OR #20 OR #21 OR #22 OR #23 OR #24 OR #25	575,107
#28	OR #26 OR #27	5,997,888
	(((random* NEXT/1 sampl* NEAR/8 ('cross section*' OR questionnaire* OR survey OR surveys OR database or	
#29	(((random* NEXT/1 sampl* NEAR/8 ('cross section*' OR questionnaire* OR survey OR surveys OR database or databases)):ti,ab,tt) NOT ('comparative study'/de OR 'controlled study'/de OR 'randomised controlled':ti,ab,tt OR 'randomized	2,943
#29	databases)):ti,ab,tt) NOT ('comparative study'/de OR 'controlled study'/de OR 'randomised controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt OR 'randomized':ti,ab,tt OR 'randomized	
	databases)):ti,ab,tt) NOT ('comparative study'/de OR 'controlled study'/de OR 'randomised controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt OR 'randomly assigned':ti,ab,tt)) ('cross - sectional study'/de NOT ('randomized controlled trial'/de OR 'controlled clinical study'/de OR 'controlled study'/de OR	2,943
#29 #30	databases)):ti,ab,tt) NOT ('comparative study'/de OR 'controlled study'/de OR 'randomised controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt OR 'randomized':ti,ab,tt OR 'randomized	
	databases)):ti,ab,tt) NOT ('comparative study'/de OR 'controlled study'/de OR 'randomised controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt OR 'randomly assigned':ti,ab,tt)) ('cross - sectional study'/de NOT ('randomized controlled trial'/de OR 'controlled clinical study'/de OR 'controlled study'/de OR	2,943
#30	databases)):ti,ab,tt) NOT ('comparative study'/de OR 'controlled study'/de OR 'randomised controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt OR 'randomized controlled trial'/de OR 'controlled clinical study'/de OR 'controlled study'/de OR 'randomized controlled trial'/de OR 'controlled clinical study'/de OR 'controlled study'/de OR 'randomized controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt OR 'control group':ti,ab,tt OR 'control groups':ti,ab,tt))	2,943 347,318
#30 #31	databases)):ti,ab,tt) NOT ('comparative study'/de OR 'controlled study'/de OR 'randomised controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt OR 'randomized controlled trial'/de OR 'controlled clinical study'/de OR 'controlled study'/de OR 'randomized controlled trial'/de OR 'controlled clinical study'/de OR 'controlled study'/de OR 'randomized controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt OR 'control group':ti,ab,tt OR 'control group':ti,ab,tt)) ('case control*':ti,ab,tt AND random*:ti,ab,tt NOT ('randomised controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt))	2,943 347,318 20,323
#30 #31 #32	databases)):ti,ab,tt) NOT ('comparative study'/de OR 'controlled study'/de OR 'randomised controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt OR 'randomized controlled trial'/de OR 'controlled clinical study'/de OR 'controlled study'/de OR 'randomised controlled study'/de OR 'controlled study'/de OR 'randomised controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt OR 'control group':ti,ab,tt OR 'control groups':ti,ab,tt)) ('case control*':ti,ab,tt AND random*:ti,ab,tt NOT ('randomised controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt OR 'randomized'	2,943 347,318 20,323 225,437
#30 #31 #32 #33	databases)):ti,ab,tt) NOT ('comparative study'/de OR 'controlled study'/de OR 'randomised controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt OR 'randomized controlled trial'/de OR 'controlled clinical study'/de OR 'controlled study'/de OR 'randomised controlled study'/de OR 'randomized controlled trial'/de OR 'controlled clinical study'/de OR 'controlled study'/de OR 'randomised controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt OR 'control group':ti,ab,tt OR 'control groups':ti,ab,tt)) ('case control*':ti,ab,tt AND random*:ti,ab,tt NOT ('randomised controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt))	2,943 347,318 20,323 225,437 18,184
#30 #31 #32 #33 #34	databases)):ti,ab,tt) NOT ('comparative study'/de OR 'controlled study'/de OR 'randomised controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt OR 'randomized controlled trial'/de OR 'controlled clinical study'/de OR 'controlled study'/de OR 'randomised controlled study'/de OR 'randomized controlled trial'/de OR 'controlled clinical study'/de OR 'controlled study'/de OR 'randomised controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt OR 'control group':ti,ab,tt OR 'control groups':ti,ab,tt)) ('cross - sectional study'/de NOT ('randomized controlled':ti,ab,tt OR 'control group':ti,ab,tt OR 'control groups':ti,ab,tt)) ('cross - sectional study'/de NOT ('randomized controlled':ti,ab,tt OR 'control groups':ti,ab,tt)) ('cross - sectional study'/de NOT ('randomized controlled':ti,ab,tt OR 'control groups':ti,ab,tt)) ('cross - sectional study'/de NOT ('random*:ti,ab,tt NOT ('randomised controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt)) ('cross - sectional study'/de NOT ('random*:ti,ab,tt NOT ('randomised controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt)) ''systematic review':ti,tt NOT (trial:ti,tt OR study:ti,tt) (nonrandom*:ti,ab,tt NOT random*:ti,ab,tt) 'random field*':ti,ab,tt	2,943 347,318 20,323 225,437 18,184 2,763
#30 #31 #32 #33 #34 #35 #36 #37	databases)):ti,ab,tt) NOT ('comparative study'/de OR 'controlled study'/de OR 'randomised controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt OR 'randomized controlled trial'/de OR 'controlled clinical study'/de OR 'controlled study'/de OR 'randomised controlled study'/de OR 'controlled study'/de OR 'randomised controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt OR 'control group':ti,ab,tt OR 'control groups':ti,ab,tt)) ('cross - sectional study'/de NOT ('randomized controlled':ti,ab,tt OR 'control group':ti,ab,tt OR 'control groups':ti,ab,tt)) ('crose control*:ti,ab,tt AND random*:ti,ab,tt NOT ('randomised controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt)) 'systematic review':ti,tt NOT (trial:ti,tt OR study:ti,tt) (nonrandom*:ti,ab,tt NOT random*:ti,ab,tt) 'random field*:ti,ab,tt ('random cluster' NEAR/4 sampl*):ti,ab,tt	2,943 347,318 20,323 225,437 18,184 2,763 1,598
#30 #31 #32 #33 #34 #35 #36 #37 #38	databases)):ti,ab,tt) NOT ('comparative study'/de OR 'controlled study'/de OR 'randomised controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt OR 'randomized controlled 'ti,ab,tt OR 'randomized controlled trial'/de OR 'controlled clinical study'/de OR 'controlled study'/de OR 'randomised controlled study'/de OR 'controlled study'/de OR 'randomised controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt OR 'control groups':ti,ab,tt OR 'control groups':ti,ab,tt)) ('cross - sectional study'/de NOT ('randomized controlled':ti,ab,tt OR 'control groups':ti,ab,tt OR 'control groups':ti,ab,tt)) ('cross - sectional study'/de NOT ('randomized controlled':ti,ab,tt OR 'control groups':ti,ab,tt)) ('cross - sectional study'/de NOT ('randomized controlled':ti,ab,tt OR 'control groups':ti,ab,tt)) ('cross - sectional study'/de NOT ('random*:ti,ab,tt NOT ('randomised controlled':ti,ab,tt OR 'control groups':ti,ab,tt)) ('crase control*:ti,ab,tt AND random*:ti,ab,tt NOT ('randomised controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt)) 'systematic review':ti,tt NOT (trial:ti,tt OR study:ti,tt) (nonrandom*:ti,ab,tt NOT random*:ti,ab,tt) 'random field*:ti,ab,tt ('random cluster' NEAR/4 sampl*):ti,ab,tt (review:ab AND review:ti) NOT trial:ti,tt 'we searched':ab AND (review:ti,tt OR review:ti) 'update review':ab	2,943 347,318 20,323 225,437 18,184 2,763 1,598 1,024,858 44,237 127
#30 #31 #32 #33 #34 #35 #36 #37	databases)):ti,ab,tt) NOT ('comparative study'/de OR 'controlled study'/de OR 'randomised controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt OR 'randomized controlled trial'/de OR 'controlled clinical study'/de OR 'controlled study'/de OR 'randomized controlled trial'/de OR 'controlled clinical study'/de OR 'controlled study'/de OR 'randomised controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt OR 'control group':ti,ab,tt OR 'control groups':ti,ab,tt)) ('cross - sectional study'/de NOT ('randomized controlled trial'/de OR 'control group':ti,ab,tt OR 'control groups':ti,ab,tt)) ('cross - sectional study'/de NOT ('randomized controlled':ti,ab,tt OR 'control groups':ti,ab,tt)) ('cross - sectional study'/de NOT (random*:ti,ab,tt NOT ('randomised controlled':ti,ab,tt OR 'control groups':ti,ab,tt)) ('crase control*:ti,ab,tt AND random*:ti,ab,tt NOT ('randomised controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt)) 'systematic review':ti,tt NOT (trial:ti,tt OR study:ti,tt) (nonrandom*:ti,ab,tt NOT random*:ti,ab,tt) 'random field*':ti,ab,tt ('random cluster' NEAR/4 sampl*):ti,ab,tt (review:ab AND review:ti) NOT trial:ti,tt 'we searched':ab AND (review:ti,tt OR review:ti) 'update review':ab (databases NEAR/5 searched):ab	2,943 347,318 20,323 225,437 18,184 2,763 1,598 1,024,858 44,237
#30 #31 #32 #33 #34 #35 #36 #37 #38 #39	databases)):ti,ab,tt) NOT ('comparative study'/de OR 'controlled study'/de OR 'randomised controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt OR 'randomized controlled 'ti,ab,tt OR 'randomized controlled trial'/de OR 'controlled clinical study'/de OR 'controlled study'/de OR 'randomised controlled 'ti,ab,tt OR 'randomized controlled trial'/de OR 'controlled clinical study'/de OR 'controlled study'/de OR 'randomised controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt OR 'control group':ti,ab,tt OR 'control groups':ti,ab,tt)) ('cross - sectional study'/de NOT ('randomized controlled':ti,ab,tt OR 'control group':ti,ab,tt OR 'control groups':ti,ab,tt)) ('cross - sectional study'/de NOT (randomized controlled':ti,ab,tt OR 'control groups':ti,ab,tt)) ('crase control*':ti,ab,tt AND random*:ti,ab,tt NOT ('randomised controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt)) 'systematic review':ti,tt NOT (trial:ti,tt OR study:ti,tt) (nonrandom*:ti,ab,tt NOT random*:ti,ab,tt) 'random field*':ti,ab,tt ('random cluster' NEAR/4 sampl*):ti,ab,tt (review:ab AND review:ti,tt OR review:ti) 'update review':ab (databases NEAR/5 searched):ab ((rart:ti,tt OR rats:ti,tt OR mouse:ti,tt OR mice:ti,tt OR swine:ti,tt OR porcine:ti,tt OR murine:ti,tt OR sheep:ti,tt OR lambs:ti,tt OR	2,943 347,318 20,323 225,437 18,184 2,763 1,598 1,024,858 44,237 127 58,399
#30 #31 #32 #33 #34 #35 #36 #37 #38	databases)):ti,ab,tt) NOT ('comparative study'/de OR 'controlled study'/de OR 'randomised controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt OR 'randomized controlled trial'/de OR 'controlled clinical study'/de OR 'controlled study'/de OR 'randomized controlled trial'/de OR 'controlled clinical study'/de OR 'controlled study'/de OR 'randomised controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt OR 'control group':ti,ab,tt OR 'control groups':ti,ab,tt)) ('cross - sectional study'/de NOT ('randomized controlled':ti,ab,tt OR 'control group':ti,ab,tt OR 'control groups':ti,ab,tt)) ('cross - sectional study'/de NOT ('randomized controlled':ti,ab,tt OR 'control group':ti,ab,tt OR 'control groups':ti,ab,tt)) ('cross - sectional study'/de NOT ('randomized controlled':ti,ab,tt OR 'control groups':ti,ab,tt)) ('cross - sectional study'/de NOT ('randomized controlled':ti,ab,tt OR 'control groups':ti,ab,tt)) ('cross - sectional study'/de NOT ('randomized controlled':ti,ab,tt OR 'control groups':ti,ab,tt)) ('cross - sectional study'/de NOT ('randomized controlled':ti,ab,tt OR 'control groups':ti,ab,tt)) ('cross - sectional study'/de NOT ('randomized controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt)) ('cross - sectional study'/de NOT (trial:ti,tt OR study:ti,tt)) ('crase control*:ti,ab,tt NOT random*:ti,ab,tt) 'random field*':ti,ab,tt NOT random*:ti,ab,tt ('random cluster' NEAR/4 sampl*):ti,ab,tt ('random cluster' NEAR/4 sampl*):ti,ab,tt ('review:ab AND review:it) NOT trial:ti,tt 'we searched':ab AND (review:ti,tt OR review:it) 'update review':ab (databases NEAR/5 searched):ab ((rat:ti,tt OR rats:ti,tt OR mice:ti,tt OR swine:ti,tt OR porcine:ti,tt OR murine:ti,tt OR sheep:ti,tt OR lambs:ti,tt OR pigs:ti,tt OR piglets:ti,tt OR rabbit:ti,tt OR cat:ti,tt OR cat:ti,tt OR dog:ti,tt OR dog:ti,tt OR cattle:ti,tt OR bovine:ti,tt	2,943 347,318 20,323 225,437 18,184 2,763 1,598 1,024,858 44,237 127
#30 #31 #32 #33 #34 #35 #36 #37 #38 #39 #40	databases)):ti,ab,tt) NOT ('comparative study'/de OR 'controlled study'/de OR 'randomised controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt OR 'randomized controlled trial'/de OR 'controlled clinical study'/de OR 'controlled study'/de OR 'randomized controlled':ti,ab,tt OR 'randomized controlled 'ti,ab,tt OR 'control group':ti,ab,tt OR 'control groups':ti,ab,tt)) ('cross - sectional study'/de NOT ('randomized controlled trial'/de OR 'controlled clinical study'/de OR 'controlled study'/de OR 'randomized controlled':ti,ab,tt OR 'control group':ti,ab,tt OR 'control groups':ti,ab,tt)) ('case control*':ti,ab,tt AND random*:ti,ab,tt NOT ('randomised controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt)) 'systematic review':ti,tt NOT (trial:ti,tt OR study:ti,tt) (norrandom*:ti,ab,tt NOT random*:ti,ab,tt) 'random field*':ti,ab,tt ('random cluster' NEAR/4 sampl*):ti,ab,tt (review:ab AND review:it) NOT trial:ti,tt 'we searched':ab AND (review:ti,tt OR review:it) 'update review':ab (databases NEAR/5 searched):ab ((rat:ti,tt OR rats:ti,tt OR mouse:ti,tt OR mice:ti,tt OR swine:ti,tt OR cats:ti,tt OR dog:ti,tt OR sheep:ti,tt OR lambs:ti,tt OR piges:ti,tt OR rabbit:ti,tt OR rabbit:ti,tt OR rabbit:ti,tt OR marmoset*:ti,tt) AND 'animal experiment'/de)	2,943 347,318 20,323 225,437 18,184 2,763 1,598 1,024,858 44,237 127 58,399 1,178,732
#30 #31 #32 #33 #34 #35 #36 #37 #38 #39 #40 #41	databases)):ti,ab,tt) NOT ('comparative study'/de OR 'controlled study'/de OR 'randomised controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt OR 'randomized controlled trial'/de OR 'controlled clinical study'/de OR 'controlled study'/de OR 'randomised controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt OR 'control group':ti,ab,tt OR 'control groups':ti,ab,tt)) ('cross - sectional study'/de NOT ('randomized controlled':ti,ab,tt OR 'control group':ti,ab,tt OR 'control groups':ti,ab,tt)) ('crase controlled':ti,ab,tt AND random*:ti,ab,tt NOT ('randomised controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt)) 'systematic review':ti,tt NOT (trial:ti,tt OR study:ti,tt) (nonrandom*:ti,ab,tt NOT random*:ti,ab,tt) 'random field*:ti,ab,tt ('random cluster' NEAR/4 sampl*):ti,ab,tt (review:ab AND review:it) NOT trial:ti,tt 'update review':ab (databases NEAR/5 searched):ab ((rat:ti,tt OR rats:ti,tt OR mouse:ti,tt OR mice:ti,tt OR cat:ti,tt OR cat:ti,tt OR dog:ti,tt OR dog:ti	2,943 347,318 20,323 225,437 18,184 2,763 1,598 1,024,858 44,237 127 58,399 1,178,732 2,473,859
#30 #31 #32 #33 #34 #35 #36 #37 #38 #39 #40 #41 #42	databases)):ti,ab,tt) NOT ('comparative study'/de OR 'controlled study'/de OR 'randomised controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt OR 'randomized controlled trial'/de OR 'controlled clinical study'/de OR 'controlled study'/de OR 'randomised controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt OR 'control group':ti,ab,tt OR 'control groups':ti,ab,tt)) ('cross - sectional study'/de NOT ('randomized controlled':ti,ab,tt OR 'control group':ti,ab,tt OR 'control groups':ti,ab,tt)) ('case control*:ti,ab,tt AND random*:ti,ab,tt NOT ('randomised controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt)) 'systematic review':ti,tt NOT (trial:ti,tt OR study:ti,tt) (nonrandom*:ti,ab,tt NOT random*:ti,ab,tt) 'random field*:ti,ab,tt ('random cluster' NEAR/4 sampl*):ti,ab,tt ('random cluster' NEAR/4 sampl*):ti,ab,tt ('random cluster' NEAR/5 searched):ab ((databases NEAR/5 searched):ab ((rat:ti,tt OR rats:ti,tt OR mouse:ti,tt OR mice:ti,tt OR swine:ti,tt OR cats:ti,tt OR dog:ti,tt OR dog:ti,tt OR cattle:ti,tt OR bovine:ti,tt OR monkey:ti,tt OR monkeys:ti,tt OR trout:ti,tt OR marmoset*:ti,tt) AND 'animal experiment'/de) ('animal experiment'/de NOT ('human experiment'/de OR 'human'/de)) #29 OR #30 OR #31 OR #32 OR #33 OR #34 OR #35 OR #36 OR #37 OR #38 OR #39 OR #40 OR #41	2,943 347,318 20,323 225,437 18,184 2,763 1,598 1,024,858 44,237 127 58,399 1,178,732 2,473,859 4,104,523
#30 #31 #32 #33 #34 #35 #36 #37 #38 #39 #40 #41	databases)):ti,ab,tt) NOT ('comparative study'/de OR 'controlled study'/de OR 'randomised controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt OR 'randomized controlled trial'/de OR 'controlled clinical study'/de OR 'controlled study'/de OR 'randomised controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt OR 'control group':ti,ab,tt OR 'control groups':ti,ab,tt)) ('cross - sectional study'/de NOT ('randomized controlled':ti,ab,tt OR 'control group':ti,ab,tt OR 'control groups':ti,ab,tt)) ('crase controlled':ti,ab,tt AND random*:ti,ab,tt NOT ('randomised controlled':ti,ab,tt OR 'randomized controlled':ti,ab,tt)) 'systematic review':ti,tt NOT (trial:ti,tt OR study:ti,tt) (nonrandom*:ti,ab,tt NOT random*:ti,ab,tt) 'random field*:ti,ab,tt ('random cluster' NEAR/4 sampl*):ti,ab,tt (review:ab AND review:it) NOT trial:ti,tt 'update review':ab (databases NEAR/5 searched):ab ((rat:ti,tt OR rats:ti,tt OR mouse:ti,tt OR mice:ti,tt OR cat:ti,tt OR cat:ti,tt OR dog:ti,tt OR dog:ti	2,943 347,318 20,323 225,437 18,184 2,763 1,598 1,024,858 44,237 127 58,399 1,178,732 2,473,859

データベース:Embase, ~2022/6/30

資料B JIA CQ6 文献検索フローチャート

CQ番号 JIA CQ6

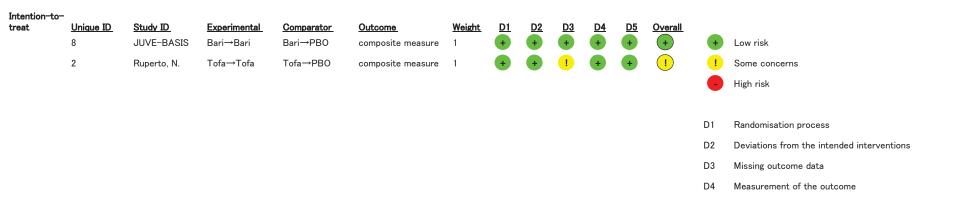


資料C JIA CQ6 バイアスのリスク(Flare)

Intention-to- treat	- <u>Unique ID</u> 7 1	<u>Study ID</u> JUVE-BASIS Ruperto, N.	<mark>Experimental</mark> Bari→Bari Tofa→Tofa	<u>Comparator</u> Bari→PBO Tofa→PBO	<u>Outcome</u> flare rate flare rate	<mark>Weight</mark> 1 1	<u>D1</u> + +	<u>D2</u> + +	<u>D3</u> + +	<u>D4</u> + +	<u>D5</u> + +	Overall + +	+ ! -	Low risk Some concerns High risk
													D1 D2	Randomisation process Deviations from the intended interventions

- D3 Missing outcome data
- D4 Measurement of the outcome
- D5 Selection of the reported result

資料C JIA CQ6 バイアスのリスク(ACR Pedi 30, JADAS-27-CRP)



D5 Selection of the reported result

資料C JIA CQ6 パイアスのリスク(参考:ACR Pedi 30, JADAS-27-CRP)

Intention—to— treat	<u>Unique ID</u> 11 6	<mark>Study ID.</mark> JUVE-BASIS Ruperto, N.	<mark>Experimental</mark> Bari→Bari Tofa→Tofa	<u>Comparator</u> Bari→PBO Tofa→PBO	<u>Outcome</u> composite measure composite measure	<u>Weight</u> 1 1	<u>D1</u> + +	<u>D2</u> + +	<u>D3</u> + +	<u>D4</u> + +	<u>D5</u> + +	Overall + +	+ ! -	Low risk Some concerns High risk
													D1	Randomisation process
													D2	Deviations from the intended interventions
													D3	Missing outcome data
													D4	Measurement of the outcome
													D5	Selection of the reported result

資料C JIA CQ6 バイアスのリスク(△C-HAQ DI)

Intention-to- treat	Unique ID 3	<u>Study ID</u> Ruperto, N.	<mark>Experimental</mark> Tofa→Tofa	<u>Comparator</u> Tofa→PBO	<u>Outcome</u> ∆C-HAQ DI	<u>Weight</u> 1	<u>D1</u> +	<u>D2</u> +	<u>D3</u> !	<u>D4</u> +	<u>D5</u> +	Overall !	+	Low risk Some concerns High risk
													D1	Randomisation process
													D2	Deviations from the intended interventions
													D3	Missing outcome data
													D4	Measurement of the outcome
													D5	Selection of the reported result

資料C JIA CQ6 バイアスのリスク(Serious adverse event)

Intention-to- treat	<u>Unique ID</u> 9 4	<u>Study ID</u> JUVE-BASIS Ruperto, N.	<mark>Experimental</mark> Bari→Bari Tofa→Tofa	<u>Comparator</u> Bari→PBO Tofa→PBO	<u>Outcome</u> SAE SAE	<u>Weight</u> 1 1	<u>D1</u> + +	<u>D2</u> + +	<u>D3</u> + +	<u>D4</u> + +	<u>D5</u> + +	Overall + +	+ ! -	Low risk Some concerns High risk
													D1	Randomisation process
													D2	Deviations from the intended interventions
													D3	Missing outcome data
													D4	Measurement of the outcome
													D5	Selection of the reported result

資料 D JIA CO6 エビデンスプロファイル Question: JAKi compared to PBO for JIA

			Certainty a	ssessment			Nº of p	atients	Effect			
Nº of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	JAKi	РВО	Relative (95% Cl)	Absolute (95% Cl)	Certainty	Importance

Outcomes used for the recommendation

Flare

2	randomised trials	not serious	not serious	not serious	seriousª	none	35/154 (22.7%)	79/151 (52.3%)	RR 0.44 (0.28 to 0.69)	293 fewer per 1,000 (from 377 fewer to 162 fewer)		CRITICAL	
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∆JADAS-27-CRP

1	randomised trials	not serious	not serious	not serious	serious ^b	none	49	32	-	MD 4.36 lower (4.79 lower to 3.93 lower)		CRITICAL
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ACR pedi 30

2	randomised trials	not serious	not serious	not serious	serious ^a	none	106/154 (68.8%)	64/151 (42.4%)	RR 1.61 (1.30 to 1.99)	259 more per 1,000	$\oplus \oplus \oplus \bigcirc$	CRITICAL
										(from 127 more to 420 more)	Moderate	

臨床的非活動状態達成割合(JIA/ACR inactive disease)

2	randomised trials	not serious	not serious	not serious	serious	none	32/154 (20.8%)	18/151 (11.9%)	RR 1.74 (1.03 to 2.97)	88 more per 1,000 (from 4 more to	CRITICAL
										235 more)	

∆C-HAQ DI

		1	randomised trials	not serious	not serious	not serious	serious ^d	none	49	33	-	MD 0.12 lower (0.14 lower to 0.1 lower)		CRITICAL
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Serious adverse event

2	randomised trials	not serious	not serious	not serious	very serious ^e	none	5/170 (2.9%)	3/166 (1.8%)	RR 1.51 (0.40 to 5.72)	9 more per 1,000 (from 11 fewer to	$\Theta \Theta \odot \odot$	CRITICAL
										85 more)	Low	

Serious infection

Outcomes related to the recommendation

ACR pedi 50

2	randomised trials	not serious	not serious	not serious	serious	none	100/154 (64.9%)	63/151 (41.7%)	RR 1.54 (1.24 to 1.92)	225 more per 1,000 (from 100 more to 384 more)	CRITICAL
ACR pedi 70											
2	randomised trials	not serious	not serious	not serious	serious	none	83/154 (53.9%)	55/151 (36.4%)	RR 1.48 (1.14 to 1.91)	175 more per 1,000 (from 51 more to 331 more)	CRITICAL

CI: confidence interval; MD: mean difference; RR: risk ratio

Explanations

a. The total sample size and the total number of the events are small.

b. The 95% confidence interval of the mean difference includes the minimally important difference of -5.5.
 c. The 95% confidence interval of the risk ratio includes the decision threshold of 1.25.

d. The total sample size is small.

e. The 95% confidence interval of the risk ratio includes both the decision thresholds of 0.75 and 1.25.
 f. Extrapolated from the paper: Ruperto H, et al. Lancet. 2008; 372: 383-391.

Outcomes used for the recommendation

Flare

	JAK	i	PBO)		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Tota	Events	Tota	Weight	M-H, Random, 95% CI	M-H, Random, 95% Cl
JUVE-BASIS 2022	14	82	41	81	44.2%	0.34 [0.20, 0.57]	
Ruperto, N 2019	21	72	38	70	55.8%	0.54 [0.35, 0.82]	
Total (95% CI)		154		151	100.0%	0.44 [0.28, 0.69]	-
Total events	35		79				
Heterogeneity: Tau ² =	0.05; Chi ^z	= 1.89	, df = 1 (P	^o = 0.17	'); l ² = 47%)	
Test for overall effect:	Z = 3.54 (F	^o = 0.0	004)				Favours [JAKI] Favours [PBO]

Δ JADAS-27-CRP

		JAKi		F	во			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Tota	Mean	SD	Tota	Weight	IV, Random, 95% Cl	IV, Random, 95% CI
Ruperto, N 2019	0.03	0.91	49	4.39	1	32	100.0%	-4.36 [-4.79, -3.93]	-
Total (95% CI)			49			32	100.0%	-4.36 [-4.79, -3.93]	•
Heterogeneity: Not ap Test for overall effect:		7 (P <	0.0000	01)					-4 -2 0 2 4 Favours (JAKi) Favours (PBO)

ACRpedi30

	JAK	i	PBC)		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Tota	Events	Tota	Weight	M-H, Random, 95% Cl	M-H, Random, 95% Cl
JUVE-BASIS 2022	55	82	31	81	45.6%	1.75 [1.28, 2.40]	
Ruperto, N 2019	51	72	33	70	54.4%	1.50 [1.13, 2.01]	−■ −
Total (95% CI)		154		151	100.0%	1.61 [1.30, 1.99]	
Total events	106		64				
Heterogeneity: Tau ² = I	0.00; Chi <mark>²</mark>	= 0.50	, df = 1 (F	^o = 0.48	3); I ² = 0%	<u> </u>	
Test for overall effect: 2	Z = 4.39 (F	□ < 0.0	001)			0.2	0.5 1 2 5 Favours (PBO) Favours (JAKI)

臨床的非活動状態達成割合(JIA/ACR inactive disease)

	JAK	i	PBO	,		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Tota	Events	Tota	Weight	M-H, Random, 95% Cl	M-H, Random, 95% Cl
JUVE-BASIS 2022	19	82	11	81	61.7%	1.71 [0.87, 3.35]	
Ruperto, N 2019	13	72	7	70	38.3%	1.81 [0.77, 4.26]	
Total (95% CI)		154		151	100.0%	1.74 [1.03, 2.97]	
Total events	32		18				
Heterogeneity: Tau ² =	0.00; Chi ²	= 0.01	, df = 1 (P	= 0.92	2); I ² = 0%	L0.2	
Test for overall effect: 2	Z = 2.05 (F	P = 0.0	4)			0.2	Favours (PBO) Favours (JAKI)

 Δ C-HAQ DI

		JAKi		1	PBO			Mean Difference		Mean D	ifference	
Study or Subgroup	Mean	SD	Tota	Mean	SD	Tota	Weight	IV, Random, 95% Cl		IV, Rand	om, 95% Cl	
Ruperto, N 2019	-0.09	0.04	49	0.03	0.04	33	100.0%	-0.12 [-0.14, -0.10]	-			
Total (95% CI)			49			33	100.0%	-0.12 [-0.14, -0.10]	-	•		
Heterogeneity: Not ap Test for overall effect:		2 (P ≺	0.0000)1)					-0.2 F	-0.1 'avours (JAKi)	0 0.1 Favours (PBO)	0.2

Serious adverse event

	JAK	i	PBC)		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Tota	Events	Tota	Weight	M-H, Random, 95% Cl	M-H, Random, 95% CI
JUVE-BASIS 2022	4	82	3	81	82.6%	1.32 [0.30, 5.70]	
Ruperto, N 2019	1	88	0	85	17.4%	2.90 [0.12, 70.19]	
Total (95% CI)		170		166	100.0%	1.51 [0.40, 5.72]	
Total events	5		3				
Heterogeneity: Tau ² =				P = 0.66	6); I 2 = 0%		0.01 0.1 1 10 100
Test for overall effect:	∠ = 0.61 (i	- = 0.5	4)				Favours (JAKi) Favours (PBO)

Serious infection

	JAK	i	PB0)		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Tota	Events	Tota	Weight	M-H, Random, 95% Cl	M-H, Random, 95% CI
JUVE-BASIS 2022	2	82	0	81	52.7%	4.94 [0.24, 101.32]	
Ruperto, N 2019	1	88	0	85	47.3%	2.90 [0.12, 70.19]	
Total (95% CI)		170		166	100.0%	3.84 [0.43, 34.38]	
Total events	3		0				
Heterogeneity: Tau ² =	0.00; Chi ²	= 0.06	, df = 1 (P	= 0.81); l ² = 0%		0.01 0.1 1 10 100
Test for overall effect: 2	Z = 1.20 (P = 0.2	3)				Favours [JAKi] Favours [PBO]

Outcomes used for the recommendation

ACR pedi 50

	JAK	i	PBO	,		Risk Ratio		Risk Ratio		
Study or Subgroup	Events	Tota	Events	Tota	Weight	M-H, Random, 95% CI		M-H, Random, 95	% CI	
JUVE-BASIS 2022	52	82	30	81	45.0%	1.71 [1.23, 2.38]				
Ruperto, N 2019	48	72	33	70	55.0%	1.41 [1.05, 1.90]				
Total (95% CI)		154		151	100.0%	1.54 [1.24, 1.92]				
Total events	100		63							
Heterogeneity: Tau ² = 1	0.00; Chi 	= 0.72	, df = 1 (P	= 0.39	l); I ^z = 0%		L 0.2	1 05 1		
Test for overall effect: 2	Z = 3.85 (F	P = 0.0	001)					ours (PBO) Favou	rs [JAKi]	5

ACR pedi 70

	JAK	i	PBC)		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Tota	Events	Tota	Weight	M-H, Random, 95% Cl	M-H, Random, 95% Cl
JUVE-BASIS 2022	44	82	29	81	52.4%	1.50 [1.05, 2.14]	
Ruperto, N 2019	39	72	26	70	47.6%	1.46 [1.01, 2.11]	
Total (95% CI)		154		151	100.0%	1.48 [1.14, 1.91]	-
Total events	83		55				
Heterogeneity: Tau ² = (0.00; Chi <mark>²</mark>	= 0.01	, df = 1 (F	² = 0.92	2); I ² = 0%	<u> </u>	
Test for overall effect: 2	Z = 2.99 (F	P = 0.0	03)			0.2	: 0.5 1 2 5 Favours (PBO) Favours (JAKI)

資料 F JIA CQ6 Evidence to Decision テーブル

CQ (No.PICO)

JIA CQ6: JIA 少関節炎型または多関節炎型の患者(児)に, JAK 阻害薬は有用か?

患者: JAK 阻害薬で JIA/ACR pedi 30 response を達成した関節型 JIA 患者

介入:JAK 阻害薬継続

対照:JAK 阻害薬を PBO へ切り替え

主要アウトカム(重大): JIA の再燃率、JADAS-27-CRP、JIA/ACR pedi 30、寛解率(ID 達成率)、C-HAQ DI、重篤な副作用頻度、重篤な感染症頻度

副次アウトカム(重要): JIA/ACR pedi 50, 70 達成率

背景:関節型 JIA の現在の標準治療は、まず MTX で治療を開始し、効果不十分な場合に追加治療を検討する。関節型 JIA 患者に対して、JAK 阻害薬が推奨されるかを検討することは、治療方 針決定に重要である。

基準1.問題 この問題は優先事項か?		
判断	リサーチエビデンス	追加的考察
○ いいえ	JMDC claim データベースの解析では 30 歳未満の関節型 JIA の 40-	日本で関節リウマチに承認された JAK 阻害薬は 5 種類ある
○ おそらく, いいえ	54%、指定難病データベースの解析では 20 歳代の関節型 JIA の約	が、関節型 JIA に対する JAK 阻害薬の有用性についてはこ
○ おそらく, はい	85%で生物学的製剤を使用されており、MTX による治療コントロー	れまで検討されていない。JIA に対する JAK 阻害薬の治験
 ● はい 	ルが不十分な JIA 患者が多く存在すると考えられる(1)。これらの患	は行われているものの、2023年6月現在で保険適用外と
○ さまざま	者に対して JAK 阻害薬の追加治療が有用かを検討することは、治療	なっている。
○ 分からない	方針の決定に重要である。	
基準 2. 望ましい効果 予期される望ましい効果はどの	程度のものか?	
判断	リサーチエビデンス	追加的考察
○ わずか	26~32 週の MTX+JAK 阻害薬は、MTX との比較で	
● 小さい	重大なアウトカムとして	
○中	1. 再燃阻止の絶対効果(26-32 週時)は、再燃が 1000 人あたり	
○ 大きい	293(-162~-377)人減少 、相対効果は RR 0.44(0.28~	
○ さまざま	0.69)	
○ 分からない		

	2. ΔJADAS-27-CRP の絶対効果(26-32 週時)は-4.36 (-3.93 ~-4.79)	
	3. JIA/ACR pedi 30 (26-32 週時) 達成に関する絶対効果は	
	1000 人あたり 259(127~420)人増加 、相対効果 RR	
	1.61(1.30~1.99)	
	4. Inactive disease(44 週)の絶対効果は 1000 人あたり 88(4~	
	235)人増加、相対効果は RR 1.74(1.03~2.94)	
	5. ΔC-HAQ DI(44 週)の絶対効果は-0.12(-0.14~-0.10)	
	以上より、JAK 阻害により関節型 JIA の関節炎は抑制されると考えら	
	れ、望ましい効果は「小さい」と判断した。	
■ 本年 3. 重ましてない効果 予期で4 判断	1る望ましくない効果はどの程度のものか? リサーチエビデンス	
○ 大きい	26~32 週の MTX+JAK 阻害薬は、MTX との比較で	
○ 大きい● 中	26~32 週の MTX+JAK 阻害薬は、MTX との比較で 重大なアウトカムとして	
● 中	重大なアウトカムとして	
● 中 ○ 小さい	重大なアウトカムとして 1. JAK 阻害薬による重篤な副作用の絶対効果は 1000 人あたり 27	
● 中 ○ 小さい ○ わずか	重大なアウトカムとして 1. JAK 阻害薬による重篤な副作用の絶対効果は 1000 人あたり 27 (7~103) 人増加、相対効果 RR 1.51(0.40~5.72)	
 中 小さい わずか さまざま 	重大なアウトカムとして 1. JAK 阻害薬による重篤な副作用の絶対効果は 1000 人あたり 27 (7~103) 人増加、相対効果 RR 1.51(0.40~5.72) 2. 重篤な感染症の絶対効果は 1000 人あたり 250 (-28~1000) 人増加、相対効果 RR 3.84(0.43~34.38)	
 中 小さい わずか さまざま 	重大なアウトカムとして 1. JAK 阻害薬による重篤な副作用の絶対効果は 1000 人あたり 27 (7~103) 人増加、相対効果 RR 1.51(0.40~5.72) 2. 重篤な感染症の絶対効果は 1000 人あたり 250 (-28~1000) 人増加、相対効果 RR 3.84(0.43~34.38) 以上より、JAK 阻害薬による、重症副作用や重症感染症の望ましくな	
 中 小さい わずか さまざま 	重大なアウトカムとして 1. JAK 阻害薬による重篤な副作用の絶対効果は 1000 人あたり 27 (7~103) 人増加、相対効果 RR 1.51(0.40~5.72) 2. 重篤な感染症の絶対効果は 1000 人あたり 250 (-28~1000) 人増加、相対効果 RR 3.84(0.43~34.38)	
 中 小さい わずか さまざま 分からない 	重大なアウトカムとして 1. JAK 阻害薬による重篤な副作用の絶対効果は 1000 人あたり 27 (7~103) 人増加、相対効果 RR 1.51(0.40~5.72) 2. 重篤な感染症の絶対効果は 1000 人あたり 250 (-28~1000) 人増加、相対効果 RR 3.84(0.43~34.38) 以上より、JAK 阻害薬による、重症副作用や重症感染症の望ましくな	
 中 小さい わずか さまざま 分からない 	 重大なアウトカムとして 1. JAK 阻害薬による重篤な副作用の絶対効果は 1000 人あたり 27 (7~103) 人増加、相対効果 RR 1.51(0.40~5.72) 2. 重篤な感染症の絶対効果は 1000 人あたり 250 (-28~1000) 人増加、相対効果 RR 3.84(0.43~34.38) 以上より、JAK 阻害薬による、重症副作用や重症感染症の望ましくない効果は「中」と判断した。 	追加的考察
 中 小さい わずか さまざま 分からない 基準 4. エビデンスの確実性 効果(2)	 重大なアウトカムとして 1. JAK 阻害薬による重篤な副作用の絶対効果は 1000 人あたり 27 (7~103) 人増加、相対効果 RR 1.51(0.40~5.72) 2. 重篤な感染症の絶対効果は 1000 人あたり 250 (-28~1000) 人増加、相対効果 RR 3.84(0.43~34.38) 以上より、JAK 阻害薬による、重症副作用や重症感染症の望ましくない効果は「中」と判断した。 	追加的考察
 中 小さい わずか さまざま 分からない 基準 4. エビデンスの確実性 効果(2) 判断	重大なアウトカムとして 1. JAK 阻害薬による重篤な副作用の絶対効果は 1000 人あたり 27 (7~103) 人増加、相対効果 RR 1.51(0.40~5.72) 2. 重篤な感染症の絶対効果は 1000 人あたり 250 (-28~1000) 人増加、相対効果 RR 3.84(0.43~34.38) 以上より、JAK 阻害薬による、重症副作用や重症感染症の望ましくない効果は「中」と判断した。 ご関する全体的なエビデンスの確実性はどの程度か? リサーチエビデンス	追加的考察

〇高

○ 採用研究なし

基準 5. 価値観 人々が主要なアウトカムをどの程度重視するかについて重要な不確実性やばらつきはあるか?

判断	リサーチエビデンス	追加的考察
○ 重要な不確実性またはばらつきあり	なし	JIA 患者の治療において、疼痛改善を含む疾患活動性の改善
○ 重要な不確実性またはばらつきの可能性あり		は望まれる治療効果であり、副作用や感染症が望まれない
● 重要な不確実性またはばらつきはおそらくなし		効果であることに関するばらつきはおそらくないものと考
○ 重要な不確実性またはばらつきはなし		える。

基準 6. 効果のバランス望ましい効果と望ましくない効果のバランスは介入もしくは比較対照を支持するか?

判断	リサーチエビデンス	追加的考察
○ 比較対照が優れている	JAK 阻害薬の介入によって、望ましい効果の大きさは小で、望ましく	重大なアウトカムの NNT は、再燃阻止が 3.4、JIA/ACR
○ 比較対照がおそらく優れている	ない効果の大きさは中であった。ただし、重篤な感染症の絶対効果が	pedi 30 達成が 3.9、ID 達成率が 11.4、NNH は重篤な副
○ 介入も比較対照もいずれも支持しない	重篤な副作用の絶対効果を大きく上回っており、これは他の臨床試験	作用が 111、重篤感染症が 8 であった。
● おそらく介入が優れている	の頻度を引用して計算したためであり、推定値が不正確な可能性を考	
O 介入が優れている	慮する必要がある。	
○ さまざま	本ガイドライン作成時点において、我が国の JIA に対する JAK 阻害	
○ 分からない	薬の効果や長期使用における安全性のデータがないが、益と害のバラ	
	ンスから「おそらく介入が優れている」と判断した。	

基準7.費用対効果 その介入の費用対効果は介入または比較対照のどちらを支持するか?

判断	リサーチエビデンス	追加的考察
○ 比較対照の費用対効果がよい	費用対効果に関する日本のエビデンスはない。	BAR の薬価は 2mg/4mg: 2705.90 円/ 5274.90 円(2023
○ 比較対照の費用対効果がおそらくよい		年7月現在)
○ 介入も比較対照もいずれも支持しない		UPA に関しては小児において体重に応じた懸濁液が治験で
○ 介入の費用対効果がおそらくよい		用いられているが薬価などは不明。
○ 介入の費用対効果がよい		関節型 JIA において中程度の経済的負担があったとして
○ さまざま		も、病勢をコントロールすることで障害を残さず成長する
● 採用研究なし		可能性が高まることから、介入による費用対効果は大きい
		ことが予想される。

基準 8. 必要資源量 資源利用はどの程度大きいか?

判断	リサーチエビデンス	追加的考察
○ 大きな増加	経口薬のため追加で必要な医療資源はない。	患者一人にかかる BAR のコストとしては 1 か月 30 日とし
● 中等度の増加		て、9 歳以上において 4mg/day で約 158,247.00 円/月、
○ 無視できるほどの増加や減少		9歳未満で 2mg/day の治療が想定されることから、
○中等度の減少		81,177.00 円/月程度コストがかかる。
○ 大きな減少		小児慢性特定疾病医療費助成制度または指定難病医療給付
○ さまざま		制度の対象となれば、一般所得家庭で上限 1~2 万円/月程
○ 分からない		度の負担増となる。
		2 割負担(未就学児)では 16,235.40 円/月、3 割負担(小学
		生以上)では 24,353.10~47,474.10 円/月増加するが自治
		体による乳幼児医療費助成制度なども適用される。
		UPA 懸濁液の必要資源量に関しては不明。

基準 9. 容認性 この選択肢は重要な利害関係者にとって妥当なものか?

判断	リサーチエビデンス	追加的考察
○ いいえ	なし	薬剤費は高額であるものの、効果のバランスから JAK 阻害
○ おそらく, いいえ		薬の関節型 JIA 患者に対する使用は患者および臨床医にと
● おそらく, はい		ってはおそらく妥当な選択肢になると考えられる。しか
\bigcirc (t い)		し、一部の臨床医や患者は長期安全性が確立されていない
○ さまざま		ことから反対する可能性がある。競合する可能性がある生
○ 分からない		物学的製剤の製造販売者は反対する可能性がある。

基準 10. 実行可能性 その介入は実行可能か?

判断	リサーチエビデンス	追加的考察
● いいえ	なし	JAK 阻害薬の TOF は 2020 年に米国 FDA において関節型
○ おそらく, いいえ		JIA に対して承認されている。BAR と UPA に関しては
○ おそらく, はい		2023年7月現在おいても本邦を含めた国際治験が行われ
\bigcirc はい		

○ さまざま	ている途中であり、今後保険適用となることが期待され
○ 分からない	る.
	しかし一部の小児においては、適用される剤型(錠剤)が服
	用できないために、介入が実行困難となる可能性がある。
	懸濁液など他の剤型の保険適用も望まれる。

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