ar IRDIOVASCULAR DI:	Study design	Patients (total n)		Contraindication: adverse events, comorbidities or other (percentage of total population)	Intervention group Description	n	Comparator Description	n	Outcome Description	Time point*1	Number and percentage of responders in intervention group	percentage of responders in	Mean outcome in intervention group (SD)	control grou	Mean difference (standard error, 95% CI)	p-value	Other	Risk of I bias^2 i
udies comparing pat	ents with vs v	without como	rbidity on treat	tment effect														
udies regarding effic mbe, 2019 [^]	Non-RCT	1684	NR	Baricitinib: depression (n=64), osteoporosis (n=113), hepatic disorder (n=222), CV disorder (n=350), pulmonary disorder (n=77), not further explained; Placebic depression (n=69), osteoporosis (n=134), hepatic disorder (n=202), CV disorder (n=381), pulmonary disorder (n=89), not further explained	Baricitinib (4mg)	350 453 350 453 350 453	Placebo	381 500 381 500 381 500	ACR20 response: with CVD ACR20 response: without CVD ACR50 response: with VVD ACR50 response: with VVD DAS28-hsCRP53.2: with CVD DAS28-hsCRP53.2: with CVD DAS28-hsCRP53.2: without CVD	12W	68.3% 66.9% 40.9% 41.3% 44.9% 43.0%	40.7% 38.0% 14.4% 15.7% 17.2%						High
udies regarding safe oodhar, 2016	ry RCT	210	7.8Y	DM type 2 13.8% (n-29); Hyperfipidemia 30.0% (n=63)	Etanercept (50mg q1w, DM type 2: 17; Hyperlipidemia: 33)	106	Placebo	type 2: 12; Hyperlipide	Fasting glucose (mg/d): All patients Fasting glucose (mg/d): My type 2 Fasting glucose (mg/d): Hyperipidemia Hemogloba ALCS: All patients Hemogloba ALCS: My type 2 Hemogloba ALCS: My type 2 Hemogloba ALCS: My type 2 Hemogloba ALCS: My type 1 Total cholesterod (mg/d): All patients Total cholesterod (mg/d): My type 2 Total cholesterod (mg/d): My type 1 Total cholesterod (mg/d): My type 1 Total cholesterod (mg/d): My type 1 MU (mg/d): All patients MU (mg/d): My type 2 MU (mg/d): My type 1	12W			133.1 (47.1) 105.9 (29.3) 5.6 (0.6) 6.7 (0.8) 6.0 (0.8) 184.8 (37.4) 170.0 (33.7) 182.6 (44.5) 61.6 (18.3) 61.9 (19.5) 61.4 (19.1) 96.9 (33.2) 79.3 (31.5) 90.3 (39.3) 131.8 (69.4)	103.2 (35.4) 112.1 (32.3))	ns n		Moderate
onomidis, 2014	RCT	80	11.8Y	Chronic stable CAD 75% (n=60) vs RA patients		80	Placebo	80	Endothelial and coronary aortic function								Greater improvement in patients with CAD than in those without. No	High
				without CAD 25% (n=20)	placebo after 48h)												changes in the examined markers were observed after placebo.	
udies comparing diffu udies regarding effic		ntions in pati	ents with como	rbidity														
ing, 2018 scitti, 2019	Non-RCT RCT RCT	374 39	NR 5.4Y 1Y, median	Barkinho: depression (n=64, osteoporosis (n=134), hepatic disorder (n=520), U disorder (n=520), upunoany disorder (n=77), not further explained; Placebo: depression (n=69), osteoporosis (n=134), hepatic disorder (n=202), U disorder (n=381), pulmoany disorder (n=69), not further explained Moderate/Riph (sk of ZAO 100% Type 2 diabetes mellifus	Baricitinb (4mg) Baicalin (500mg once daily, oral) TNF (adalimumab, certolizumab pegol, etaherecept, inflibmab, polimumab)	350 453 350 453 350 453 166 17	Placebo Placebo Anakinra (100mg/D, subcutaneous)	381 500 381 500 381 500 165 22	ACR20 response: with CVD ACR20 response: with CVD ACR20 response: with CVD ACR30 response: with CVD DA328-bcRPs-3.2: with CVD DA328-bcRPs-3.2: with CVD DA328-bcRPs-3.2: without CVD EULAR good/moderate response at 12W Good EULAR response DA528	12W 6M 6M	68.3% 66.9% 40.9% 41.3% 44.9% 43.0% 71% 62.5%	40.7% 38.0% 14.4% 14.4% 15.7% 17.2% 53% 95.0%	3.58 (1.45)	2.70 (1.16)		s p=0.030 p=0.08		Moderate High
									SDAI	6M				7.89 (9.23)		p=0.0048		
udies regarding safe	y RCT	210	7.8Y	DM type 2 13.8% (m-29); Hyperflyidemia 30.0% (m-63)	Etanercept (50mg g1w, DM type 2: 17; Hyperlipidemia: 33)	106	Placebo	type 2: 12; Hyperlipide	Fasting glucose (mg/d): All patients Fasting glucose (mg/d): All patients Fasting glucose (mg/d): Hyperigidemia Hemoglobh ALCS: All patients Hemoglobh ALCS: OM type 2 Hemoglobh ALCS: OM type 2 Hemoglobh ALCS: Myserigidemia Total cholesterol (mg/d): J. My aptients Total cholesterol (mg/d): J. Myserigidemia Total cholesterol (mg/d): J. Myserigidemia Total cholesterol (mg/d): J. Myserigidemia HDL (mg/d): All patients LDL (mg/d): All patients LDL (mg/d): All patients LDL (mg/d): All patients LDL (mg/d): Myserigidemia Triglycerides (mg/d): All patients Triglycerides (mg/d): All patients Triglycerides (mg/d): All patients Triglycerides (mg/d): Myserigidemia	12W			133.1 (47.1) 105.9 (29.3) 5.6 (0.6) 6.7 (0.8) 6.0 (0.8) 184.8 (37.4) 170.0 (33.7) 182.6 (44.5) 61.6 (18.3) 61.9 (19.5) 61.4 (19.1) 96.9 (33.2) 79.3 (31.5) 90.3 (39.3) 131.8 (69.4) 151.8 (69.4)	54.7 (13.6) 56.9 (14.0) 103.2 (35.4) 112.1 (32.3))	ns n		Moderate
ing, 2018	RCT	374	5.4Y	Moderate/high risk of CAD 100%	Baicalin (500mg once daily, oral)	166	Placebo	165	Levels of triglycerides Total cholesterol LDL-cholesterol	12W			2.87 (1.23)	1.87 (0.46) 3.22 (1.07) 1.16 (0.32)		p<0.05 p<0.05 p<0.05		Moderate
enovese, 2019^	RCT (TARGET)	546	NR	mmol/L or baseline HbA1c >6.5%): 78	Sariliumab 200mg q2W + DMARD	17	Placebo	20	HbA1c%	Change from BL until 24W					-0.78	p<0.001		High
	RCT (MOBILITY		NR	Diabetes mellitus (baselinefasting glucose >7 mmol/L or baseline HbA1c >6.5%): 28	Sariliumab 200mg q2W + DMARD	8	Adalimumab 40mg q2W	14	HbA1c%	Change from BL until 24W					-0.41	p=0.0192		
onomidis, 2014	RCT	80	11.8Y	Chronic stable CAD 75% (n=60) vs RA patients without CAD 25% (n=20)	Anakinra (1 injection of 100mg, cross-over to placebo after 48h)	80	Placebo	80	Endothelial and coronary aortic function	6M							Greater improvement in patients with CAD than in those without. No changes in the examined markers were observed after placebo.	High
scitti. 2019	RCT	39		Type 2 diabetes mellitus	TNFi (adalimumab, certolizumab pegol,	17	Anakinra (100mg/D, subcutaneous)	22	HbA1c%					6.70 (0.67)		p<0.001		

Sepriano, 2020	SLR (4 studie	25)	N		At least one CV risk factor	tsDMARDs (tofactinib, barictinib)	NR	TNFI	NR	Occurence of VTEs	NR					Conclusion: "While one observational study performed with 'claims' data showed no significant increased risk of VTE with Indication compared with This, fast from RTs included in this SIA's suggest an increased risk of VTE with IACI. These data are in line with a recent increased risk of VTE with IACI. These data are in line with a recent pooled analysis of the nacification and this pergammen, where VTE occurred exclusively among patients on handling home, but not absorbed a national process of the process of th		
Weinblatt, 2006	RCT	144	1 9.	7Y	Diabetes mellitus: n=96	Abatacept (<60 kg: 500mg; 60-100kg: 750 mg; >100kg: 1000 mg; at D1, D15, D29 and then	65	Placebo	31	Serious adverse events, not further classified		12.9%					High	
						q4W)				Infections	50.8%	58.1%						
EXTRA-ARTICULA	MANIFES	TATIONS			A.P.													
Studies comparing Studies regarding	afety																	
Nakamura, 2012	Non-F	RCT 86	11	31.4M	AA amyloidosis secondary to RA 100%	Cyclophosphamide (dose determined by level of 24-h creatinine clearance)	62	Etanercept (25mg 2/W)	24	Serum albumin eGFR Survival	Final observation		3.5 (0.4) 18.6 (9.3)	2.8 (0.5) 24.9 (18.7)	p<0.01 p=0.035	Kaplan-Meier survival curve after treatment, favours etanercept (p=0.025)	High	
HBV Studies comparing	nationts wit	de sur suddhas	t comorbidi	h. an trant	wout offers													
Studies regarding	efficacy																	
Chen, 2017 Studies regarding	Non-F	RCT 63	31		11.15 (n=7) with chronic HBV infection (HBsAG+, undetectable HBV-DNA), 65.16 (n=41) with resolved HBV infection (anti-HBc+, HBsAG-, undetectable HBV-DNA) and 23.8% (n=15) with non-HBV infection (anti-HBC-, HBsAG-, undetectable HBV-DNA)	Tocilīzumab (8mg/kg q4w, intravenous)	63	NA	NA	DAS28-ESR (<3.2) DAS28-ESR (<2.6)	12W	44(70%) 32(51%)			ns (chronic vs resolved vs non- HBV) ns (chronic vs resolved vs non- HBV)		High	
Cantini, 2014	SLR (2 studie		N		HBV infection: overt (HBsAg+) 13.5% (n=40); occult (anti-HBc+, HBsAg-) 85.5% (n=254); others not specified	TNFi	297	NA	NA	HBV reactivation: occult HBV infection HBV reactivation: overt infection		3.3% (95%CI 0.7- 7.5%) 2.6% (95%CI 0.4- 6.6) 10.7 (95%CI 1.4-				Although HBV reactivation rate is relatively low in patients treated with anti-TNF - for rheumatic and dermatological conditions, the antiviral prophysics would be recommended in patients with overt chronic HBV infection	Moderate	NR
Chen, 2017	Non-F	RCT 63	31		11.1% (n=7) with chronic HBV infection (HBsAG+, undetectable HBV-DNA), 65.1% (n=41) with resolved HBV infection (anti-HBc+, HBsAG-, undetectable HBV-DNA) and 23.8% (n=15) with non-HBV infection (nati-HBc+, HBsAG-, undetectable	Tocilizumab (8mg/kg q4w, intravenous)	63	NA		HBV reactivation	12W	10.7 (95%) 1.4- 50.2) 3 (4.8%)				3 patients with chronic HBV infection and without antiviral prophylaxis developed HBV reactivation	High	
Padovan, 2016	Non-F	RCT 72	13		HBV-DNA) HBV: Inactive carriers (HBsAG-, anti-HBe+, HBV	Abatacept	72	NA	NA	Reactivation of HBV		0 (0%)	2.3 (1.9)				High	
Studies comparing					DNA levels < 2000 IU/ml, normal LFTs) 65.3%					Discontinuation due to HBV		0						
Studies regarding Papalopoulos, 201	afety		6.	2-7.2Y	Past HBV infection (HBsAG-, anti-HBC+, anti-HBs±) 100%	Non-TNFi bDMARDs	101	TNFi	111	HBV reactivation	24M (median)	2 0			p=0.266		High	
HCV																		
Studies comparing Studies regarding		h vs withou	t comorbidi	ty on treat	ment effect													
Lin, 2015	Non-F	RCT 101	. 5.	6Y	HCV (presence of HCV RNA) 19.8% (n=20) versus without HCV 80.2% (n=81)	TNFi (adalimumab (40mg q2w) or etanercept (25mg 2/W)	101	NA	NA	DAS28: HCV	Change from BL until 11M		2.77 (1.16)		ns (HCV vs without HCV)		High	
					without nev 80.2% (N=81)	(ESING 2/W)				DAS28: without HCV	undi 11M		2.43 (1.2)		without HCV)			
Studies regarding: Brunasso, 2011	SLR (3 studie		(RA 91) N	R	Chronic HCV (not further explained) 100%	Etanercept	110	NA	NA	HCV-related liver disease (stable viral load and/or stable levels of transaminases): Improvement; Stable; Suspected of worsening;Confirmed worsening)	13.15M (mean)	29;74;5;1			NA	The safety profile of anti-TNF-a agents in the setting of HCV infection seems to be acceptable, even if differences in the hepatotoxic profile are apparent between different agents. In the absenced long-term and large, controlled cirical trials a definitive statement on the safety of arti-TNF-a therapies in the setting of chronic HCV infection cannot		NR
Lin, 2015 Studies comparing	Non-F					ThF i (adalimumab (40mg q2w) or etanercept (25mg 2/W)	101	NA	NA	Development of liver injury (defined as Chronic Child-Rugh class 8 or C disease): HCV Development of liver injury (defined as chronic Child-Rugh class 8 or C disease): without HCV Discontinuation from TNFi, not related to HCV: HCV Oscontinuation from TNFi, not related to HCV: without HCV	Within 1Y Within 1 Y	2 (10%) 1 (1.23%) 2			p=0.099 (HCV v: without HCV) ns (HCV vs without HCV)	be made.	High	
Studies regarding: Chen, 2015^	arety Non-F	RCT 26	2!	5.8M	Concomitant HCV infection (presence of HCV viral	TNFi	20	Rituximab	6	serum ALT level	After biological				ns		High	
		. 10	-		load) 100%		-				therapy				•		9"	

									From BL until end						p=0.003	HCV viral load increased after rituximab therapy	
lannone, 2014 RCT	29	6.2Y	HCV (presence of anti-HCV antibodies and HCV	MTX (starting dose 10mg/W)	9	NA .	NA	Discontinuation of therapy, because of	of biologic therapy Within 54W	0							High
,			viremia by PCR) 100%	,				hepatitis C related event									
								Hepatitis C virus viral load (log10)	54W			5.3			ns (compared to BL)		
				Etanercept (50mg/W)	13			Discontinuation of therapy, because of	Within 54W	0					BL)		
								hepatitis C related event									
								Hepatitis C virus viral load (log10)	54W			5.5			ns (compared to BL)		
				MTX and Etanercept	7			Discontinuation of therapy, because of	Within 54W	0					DL)		
								hepatitis C related event									
								Hepatitis C virus viral load (log10)	54W			5.8			ns (compared to BL)		
															u.,		
HEPATIC DISEASE Studies comparing patients with	us without som	arbiditu an tra	stances offices														
Studies regarding efficacy																	
Combe, 2019 ^A Non-RC	T 1684	NR	Baricitinib: depression (n=64), osteoporosis (n=113),	Baricitinib (4mg)	222	Placebo	202		12W	67.1%	37.1%						High
			hepatic disorder (n=222), CV disorder (n=350), pulmonary disorder (n=77), not further explained:		581		679 202	ACR20 response: without hepatic disorder ACR50 response: with hepatic disorder		67.6% 40.5%	39.8% 11.4%						
			Placebo: depression (n=69), osteoporosis (n=134),		581		679	ACR50 response: without hepatic disorder		41.3%	15.3%						
			hepatic disorder (n=202), CV disorder (n=381),		222		202	DAS28-hsCRPs3.2: with hepatic disorder		42.8%	12.9%						
			pulmonary disorder (n=89), not further explained		581		679	DAS28-hsCRPs3.2: without hepatic disorder		44.2%	17.7%						
Studies comparing different inter Studies regarding efficacy	rventions in pa	ients with com	orbidity														
Combe, 2019 ^A Non-RC	T 1684	NR	Baricitinib: depression (n=64), osteoporosis (n=113),	Baricitinib (4mg)	222	Placebo	202		12W	67.1%	37.1%						High
			hepatic disorder (n=222), CV disorder (n=350),		581		679	ACR20 response: without hepatic disorder		67.6%	39.8%						
			pulmonary disorder (n=77), not further explained; Placebo: depression (n=69), osteoporosis (n=134).		222 581		202 679	ACRS0 response: with hepatic disorder ACRS0 response: without hepatic disorder		40.5% 41.3%	11.4% 15.3%						
			Placebo: depression (n=69), osteoporosis (n=134), hepatic disorder (n=202). CV disorder (n=381).		222		202	ACR50 response: without hepatic disorder DAS28-hsCRPs3.2: with hepatic disorder		41.3%	15.3%						
			pulmonary disorder (n=89), not further explained		581		679	DAS28-hsCRPs3.2: without hepatic disorder		44.2%	17.7%						
OBESITY/OVERWEIGHT																	
OBESITY/OVERWEIGHT Studies comparing patients with	vs without con	orbidity on trea	itment effect														
Studies regarding efficacy																	
Gremese, 2013 Non-RC	T 641	8.5Y	BMI 24.9 kg/m2; BMI <30: 89.7% (n=575); BMI >30: 10.3% (n=66)	TNFi (adalimumab 40.6%; etanercept 35.4%; infliximab 24%)				DAS28 remission: BMI<30 DAS28 remission: BMI>30	12M	184 (32.0%) 10 (15.2%)							High
			>30: 10:3% (П=66)	Infliximab (3mg/kg after induction, iv)				DAS28 remission: BM1<30 DAS28 remission: BM1<30		22.4%					p=0.01 (BMI<30		
				(4.16) -6 -10 -10 -10 -10 -10 -10 -10 -10 -10 -10				DAS28 remission: BMI>30		0%					vs BM1>30)		
				Adalimumab (40mg sc q2w)				DAS28 remission: BMI<30		30.1%					p=0.08 (BMI<30		
								DAS28 remission: BMI>30 DAS28 remission: BMI<30		14.8% 36.2%					vs BM1>30)		
				Etanercept (50mg sc q1w)				DAS28 remission: BMI<30 DAS28 remission: BMI>30		27.6%					p=0.44 (BMI<30 vs BMI>30)		
Klaasen, 2011 Non-RC	T 89	80.3M	BMI >30 26.9%	Infliximab (3mg/kg, intravenous)	74	NA.	NA	DAS28 responders (∆DAS28 ≥ 1.2): BMI <30	16W	43					p=0.04		High
															(compared to		
					15			DAS28 responders (∆DAS28 ≥ 1.2): BMI >30	16W	7					BM1 <30)		
Yoo, 2017^ Non-RC	T 322	NR	BM1: <25. 25-30. ≥30: % NR	Rituximab or biosimilar CT-P10 (1000mg iv at	322	NA .	NA	ACR20 response: BMI <25	24W			81.8%			ns (compared to		High
				days 1 and 15)				ACR20 response: BMI 25-30				75.4%			other BMI		
								ACR20 response: BMI ≥30				80.0%			groups)		
								ACRS0 response: BMI <25 ACRS0 response: BMI 25-30				53.4% 49.1%			ns (compared to other BMI		
								ACR50 response: BM1 ≥30				49.1% 55.7%			groups)		
								DAS28: BMI <25	Change from BL						ns (compared to		
									until 24W						other BMI		
Studies comparing different inter	sucentions in no	ionte udth com	nehidin.					DAS28: BMI ≥30							groups)		
Studies regarding efficacy																	
Burmester, 2017 ^A Non-RC	T 369	7.3Y	BMI 27.2 (BMI 25-30 31.7% (n=117), BMI >30	Adalimumab (40mg q2w plus placebo,	185	Sarilumab (200mg q2w plus placebo,	184	DAS28-ESR: BMI <25	Change from BL					<0 (favours	p=0.047		High
			22.0% (n=81))	subcutaneous)		subcutaneous)			until 24W					sariliumab)			
								DAS28-ESR: BMI 25-30						<0 (favours			
														sariliumab)			
								DAS28-ESR: BMI>30						0			
OSTEOPOROSIS/OSTEOPENIA																	
Studies comparing patients with	vs without con	orbidity on trea	stment effect														
Studies regarding efficacy Combe, 2019 ^A Non-RC	T 1684	NR	Baricitinib: depression (n=64), osteoporosis (n=113),	Baricitinib (4mg)	113	Placebo	134	ACR20 response: with osteoporosis	12W	65.5%	32.1%						High
,			hepatic disorder (n=222), CV disorder (n=350),		690		747	ACR20 response: without osteoporosis		67.8%	40.4%						
			pulmonary disorder (n=77), not further explained;		113		134	ACR50 response: with osteoporosis		40.7%	11.9%						
			Placebo: depression (n=69), osteoporosis (n=134), hepatic disorder (n=202), CV disorder (n=381),		690 113		747 134	ACR50 response: without osteoporosis DAS28-hsCRPs3.2: with osteoporosis		41.2% 46.9%	14.9% 12.7%						
			pulmonary disorder (n=202), cv disorder (n=381), pulmonary disorder (n=89), not further explained		690		747	DAS28-hsCRPs3.2: with osteoporosis		43.3%	17.3%						
Studies comparing different inter	rventions in pa	ients with com						*****									
Studies regarding efficacy Combe. 2019^ Non-RC	T 1684	NR	Baricitinib: depression (n=64), osteoporosis (n=113),	Onsighting (Ama)	113	Placebo	134	ACR20 response: with osteoporosis	12W	65.5%	32.1%						Minh
Compe, 2019" Non-KC	.1 1084	INK	Bancitinib: depression (n=b4), osteoporosis (n=113), hepatic disorder (n=222). CV disorder (n=350).	pariculiu (4mg)	113 690	riaceuo	747	ACR20 response: with osteoporosis ACR20 response: without osteoporosis	TT-AA	65.5%	32.1% 40.4%						rign
			pulmonary disorder (n=77), not further explained;		113		134	ACR50 response: with osteoporosis		40.7%	11.9%						
			Placebo: depression (n=69), osteoporosis (n=134),		690		747	ACRS0 response: without osteoporosis		41.2%	14.9%						
			hepatic disorder (n=202), CV disorder (n=381),		113 690		134 747	DAS28-hsCRPs3.2: with osteoporosis		46.9%	12.7%						
Nakamura, 2017 Non-RC	T 43	17.5Y	pulmonary disorder (n=89), not further explained Osteoporosis 100%	Denosumab (60mg/6M, subcutaneous)	690 22	Denosumab + vitamin D ((762.5mg of	747 21	DAS28-hsCRPs3.2: without osteoporosis DAS28-CRP	Change from BL	43.3%	17.3%	2.7 (0.3)	2 0 (0 3)		p=0.0793		High
		47.31		(ourig/ow, succum.cous)		precipitated calcium carbonate, 2001U of			until 12M				(0.3)				
						cholecalciferol, 59.2mg of magnesium											
						Denosumab + vitamin D ((762.5mg of	21					0.74 (0.03)	0.73 (0.04)		p=0.6983		10-6
Studies regarding safety Nakamura, 2017 Non-RC	т 43	17 SY	Osteonorosis 100%														
	T 43	17.5Y	Osteoporosis 100%	Denosumab (60mg/6M, subcutaneous)	22	precipitated calcium carbonate, 200IU of	21		Change from BL until 12M								ngn
	T 43	17.5Y	Osteoporosis 100%	Denosumab (60mg/6M, subcutaneous)	22		21					0.74 (0.03)			p=0.2236		ngn
	T 43	17.5Y	Osteoporosis 100%	Denosumab (60mg/6M, subcutaneous)	22	precipitated calcium carbonate, 200IU of	21										riign

n, 2017	RCT	149	7.7Y	Osteopenia (reduced BMD) 100%	Ibradonate (150mg q4w, oral)	76	Placebo	73	Lumbar BMD	Change from BI			+3.7% (5.1%) -1.9% (4.4%)	p=0.0073		Low
										until 48W						
GNANCY/LACTAT																
lies comparing dif	ferent interv	ventions in pat	ients with com	orbidity												
ies regarding safi se, 2016	Non-RCT	31	NR	Pregnancy 100%	Tofacitinib (5mg 2/D)	8	Tofacitinib (10mg, 2/D)	9	congenital malformation	NR	1	0				High
,							(0/-/-)		spontaneus abortion		1	1				
									healthy newborn		6	5				
									medical termination		0	1				
					7-5-10-1-145	1	T-4	1	lost to follow-up		0	0				
					Tofacitinib (15mg 2/D)	1	Tofacitinib (20mg/D) + MTX 25mg	1	congenital malformation spontaneus abortion		1	0				
									healthy newborn		0	1				
									medical termination		0	0				
									lost to follow-up		0	0				
					Tofacitinib (5mg/D) + MTX 2.5mg	1	NA.		congenital malformation		0					
									spontaneus abortion healthy newborn		0					
									medical termination		0					
									lost to follow-up		0					
					Tofacitinib (5mg 2/D) + MTX 10mg	1	Tofacitinib (5mg 2/D) + MTX 17.5mg	1	congenital malformation		0	0				
tam Skorpen,	SLR (69	NR	NR	Maternal exposure, lactation	All cs/b/tsDMARDs + prednisone	NR	NA	NA	spontaneus abortion Safe to continue - Maternal exposure		0	0			Points to consider for use of antirheumatic drugs in pregnancy*Grade	Moderate
am skorpen,		50 (patients	NK	Maternal exposure, lactation	All CS/D/ISDIVIARDS + prednisone	INK.	NA.	NA	Sare to continue - Maternal exposure						of recommendation†: 1 csDMARDs‡ proven compatible with	woderate
	case	with RMD	ts)												pregnancy are hydroxychloroquine, chloroquine, sulfasalazine,	
	series/reg														azathioprine, ciclosporin, tacrolimus and colchicine. They should be	
	ts) - EULA														continued in pregnancy for maintenance of remission or treatment of	
	points to														a disease flare. (B); 2 csDMARDs‡ methotrexate, mycophenolate	
	consider														mofetil and cyclophosphamide are teratogenic and should be withdrawn before pregnancy. (B); 3 Non-selective COX inhibitors and	
															prednisone should be considered for use in pregnancy if needed to	
															control active disease symptoms. NSAIDs should be restricted to the	
															first and second trimesters. (B); 4 In severe, refractory maternal	
															disease during pregnancy methylprednisolone pulses, intravenous	
															immunoglobulin or even second or third trimester use of cyclophosphamide should be considered. (D); 5 csDMARDs‡,	
															tsDMARDs§ and anti-inflammatory drugs with insufficient	
															documentation concerning use in pregnancy should be avoided until	
															further evidence is available. This applies to leflunomide, mepacrine,	
															tofacitinib and selective COX II inhibitors. (B-D); 6 Among	
															bDMARDs¶ continuation of TNF inhibitors during the first part of	
															pregnancy should be considered. Etanercept and certolizumab may be considered for use throughout pregnancy due to low rate of	
															transplacental passage. (B): 7 bDMARDs¶ rituximab, anakinra.	
															tocilizumab, abatacept, belimumab and ustekinumab have limited	
															documentation on safe use in pregnancy and should be replaced	
															before conception by other medication. They should be used during	
															pregnancy only when no other pregnancy-compatible drug can	
															effectively control maternal disease. (D)	
															Points to consider for use of antirheumatic drugs during	
															lactation*Grade of recommendation*: 1csDMARDs* and anti- inflammatory drugs compatible with breast feeding should be	
															considered for continuation during lactation provided the child does	
															not have conditions that contraindicate it. This applies to	
															hydoxychloroquine, chloroquine, sulfasalazine, azathioprine,	
															ciclosporin, tacrolimus, colchicine, prednisone, immunoglobulin, non-	
															selective COX inhibitors and celecoxib. (D) 2csDMARDs‡, tsDMARDs\$ and anti-inflammatory drugs with no or limited data on breast feeding	
															should be avoided in lactating women. This applies to methotrexate,	5
															mycophenolate mofetil, cyclophosphamide, leflunomide, tofacitinib	
															and cyclooxygenase II inhibitors other than celecoxib. (D); 3Low	
															transfer to breast milk has been shown for infliximab, adalimumab,	
															etanercept and certolizumab. Continuation of TNF inhibitors should b	
															considered compatible with breast feeding. (D); 4bDMARDs¶ with no data on breast feeding such as rituximab, anakinra, belimumab.	
															ustekinumab, tocilizumab and abatacept should be avoided during	
															lactation if other therapy is available to control the disease. Based on	
															pharmacological properties of bDMARDs¶, lactation should not be	
															discouraged when using these agents, if no other options are	
															available.	
enbein, 2016	Non-RCT		NR	Pregnancy 100%	Tocilizumab	288	NA	NA	Live births	164						High
		235; JIA							Spontaneous abortions	70						
		20; Other							Elective terminations of pregancy Stillbirth	53 1						
		7; Unknown							Stillbirth Malformations	1 11						
		26)							Rate of preterm birth	31.2%						
		-,							Adverse pregnancy outcomes	0						
is, 2019	SLR (84		s NR	Men trying to conceive	Cyclophosphamide, TNF i, abatacept, rituximab,	NR									Condusion: Aside from the known adverse impact of	Moderate
	nRCTs)	with			azathioprine, cyclosporine A,										cyclophosphamide and sulfasalazine on spermatogenesis, overall	
		preconce	pti		hydroxychloroquine, leflunomide, methotrexate										there was no firm evidence of harm to fertility or pregnancy	
		onal exposure			or mycophenolate mofetil										outcomes with paternal exposure to anti-TNF therapies, abatacept, rituximab, azathioprine, cyclosporine A, hydroxychloroquine,	
		exposure and													rituximab, azathioprine, cyclosporine A, hydroxychloroquine, leflunomide, methotrexate or mycophenolate mofetil. There was no	
		outcomes													evidence found pertaining to the effects of male exposure to IVIG,	
		on fertility	r;												tacrolimus, golimumab, anakinra or belimumabon fertility or	
		5986 with													pregnancy outcomes.	

Sammaritano, 2020 SLR (53 NR NR Paternal and maternal exposure, lactation All cs/b/tsDMARDs + prednisone NR Safe to continue - Paternal exposure Strongly recommend continuing: Azathioprine/ 6-mercaptopurine, Colchicine, Hydroxychloroquine, Tumor necrosis factor inhibitors (all) nRCTs) - (patients ACR Conditionally recommend continuing: Anakinra, Cyclooxygenase 2 with RMDs) inhibitors, Cyclosporine, Leflunomide, Methotrexate, Mycophenolate mofetil, Mycophenolic acid, Nonsteroidal antiinflammatory drugs, Rituximab, Sulfasalazine (semen analysis if delayed conception), Tacrolimus Strongly recommend discontinuing: Cyclophosphamide (discontinue 12 weeks prior to attempted conception) Conditionally recommend discontinuing: Thalidomide (discontinue 4 weeks prior to attempted conception) Unable to make a recommendation due to limited data: Abatacept, Apremilast, Baricitinib, Belimumab, Secukinumab, Tocilizumab, Strongly recommend continuing: Hydroxychloroquine, Sulfasalazine, Colchicine, Azathioprine/6-mercaptopurine, Certolizumab Conditionally recommend continuing: Prednisone (taper to <20mg/day by adding pregnancy-compatible immunosuppressants), Cyclosporine (monitor blood pressure) Tacrolimus (monitor blood pressure), Nonsteroidal antiinflammatory drugs (cyclooxygenase 2 inhibitors not preferred, discontinue if the woman is having difficulty conceiving), Infliximab (continue through conception), Etanercept (continue through conception), Adalimumab (continue through conception), Golimumab (continue through conception), Rituximab (discontinue at conception), Anakinra (discontinue at conception), Belimumab (discontinue at conception). Abatacept (discontinue at conception), Tocilizumab (discontinue at conception), Secukinumab (discontinue at conception). Ustekinumab (discontinue at conception detectable levels). Mycophenolate mofetil and mycophenolic acid (stop >6 weeks prior to conception to assess disease stability), Cyclophosphamide (stop 3 months prior to conception). Thalidomide (stop 1-3 months prior to conception)

Conditionally recommend discontinuing: Unable to make a recommendation due to limited data: Tofacitinib. Apremilast, Baricitinib (unable to determine due to lack of data; small molecular size suggests transfer across the placenta and into breast Safe to continue - Maternal exposure - during Strongly recommend continuing: Hydroxychloroquine, Sulfasalazine Colchicine, Azathioprine/6-mercaptopurine, Certolizumab pregnancy Conditionally recommend continuing: Prednisone Cyclosnorine Tacrolimus, Nonsteroidal antiinflammatory drugs (cyclooxygenase 2 inhibitors not preferred), Infliximab, Etanercept, Adalimumab, Golimumab, Rituximab, Cyclophosphamide (Life-/organ-threatening disease in second and third trimesters) Strongly recommend discontinuing: Methotrexate (stop and give folic acid 5mg/day), Leflunomide (stop and give cholestyramine washout), Mycophenolate mofetil and mycophenolic acid. Thalidomide Conditionally recommend discontinuing: Anakinra (discontinue during pregnancy), Belimumab (discontinue during pregnancy), Abatacept (discontinue during pregnancy), Tocilizumab (discontinue during pregnancy), Secukinumab (discontinue during pregnancy), Ustekinumab (discontinue during pregnancy) Unable to make a recommendation due to limited data: Tofacitinib,

Apremilast, Baricitinib (unable to determine due to lack of data; small molecular size suggests transfer across the placenta and into breast Strongly recommend continuing: Hydroxychloroquine, Sulfasalazine breastfeading Colchicine, Certolizumab, Infliximab, Etanercept, Adalimumab. Conditionally recommend continuing: Azathioprine/6-mercaptopurine (low transfer), Prednisone (after a dose of >20mg, delay breastfeeding for 4 hours), Cyclosporine (low transfer), Tacrolimus (low transfer). Nonsteroidal antiinflammatory drugs (cyclooxygenase 2 inhibitors not preferred, iibuprofen preferred), Anakinra (expect minimal transfer due to large molecular size, but no available data), Belimumab (expect minimal transfer due to large molecular size, but no available data), Abatacept (expect minimal transfer due to large molecular size, but no available data), Tocilizumab (expect minimal transfer due to large molecular size, but no available data), Secukinumab (expect minimal transfer due to large molecular size, but no available data), Ustekinumab (expect minimal transfer due to large molecular size, but no available data) Strongly recommend discontinuing: Leflunomide, Mycophenolate mofetil and mycophenolic acid, Cyclophosphamide, Thalidomide Conditionally recommend discontinuing: Methotrexate (limited data Unable to make a recommendation due to limited data: Tofacitinib, Apremilast, Baricitinib (unable to determine due to lack of data; small molecular size suggests transfer across the placenta and into breast PSYCHOLOGICAL DISEASE Studies comparing patients with vs without comor bidity on treatment effect Studies regarding efficacy Combe, 2019^ Non-RCT 1684 NR Baricitinib: High Baricitinib: depression (n=64), osteoporosis (n=113), Baricitinib (4mg)

				hepatic disorder (n=222), CV disorder (n=350),		739		812	ACR20 response: without depression		68.2%	39.8%					
				pulmonary disorder (n=77), not further explained;		64		69	ACR50 response: with depression		34.4%	8.7%					
				Placebo: depression (n=69), osteoporosis (n=134), hepatic disorder (n=202), CV disorder (n=381),		739 64		812 69	ACR50 response: without depression DAS28-hsCRPs3.2: with depression		41.7% 31.3%	14.9% 13.0%					
				pulmonary disorder (n=89), not further explained		739		812	DAS28-hsCRPs3.2: with depression DAS28-hsCRPs3.2: without depression		44.9%	16.9%					
dies comparing differ		ntions in pat	ents with cor														
idies regarding effica	y Non-RCT			Baricitinib: depression (n=64), osteoporosis (n=113),		803		881	ACR20 response: Overall	12W	542 (67.5%)	345 (39.2%)					
mbe, 2019^	Non-RCI	1684	NR	Barictinib: depression (n=b4), osteoporosis (n=113), hepatic disorder (n=222), CV disorder (n=350),	Banctinib (4mg)	803	Placebo	881	ACR20 response: Overall ACR20 response: Depression	12W	38 (59.4%)	345 (39.2%) 22 (31.9%)					High
				pulmonary disorder (n=77), not further explained;					ACR50 response: Overall		330 (41.4%)	127 (14.4%)					
				Placebo: depression (n=69), osteoporosis (n=134),					ACR50 response: Depression		22 (34.4%)	9 (13.0%)					
				hepatic disorder (n=202), CV disorder (n=381),					DAS28-hsCRPs3.2: Overall		352 (43.8%)	146 (18.2%)					
idies regarding safety				pulmonary disorder (n=89), not further explained					DAS28-hsCRPs3.2: Depression		20 (31.3%)	9 (13.0%)					
	Non-RCT	128	NR	Mental disorder (100%)	csDMARDs	32	NA	NA	Frequency of major depressive disorder	Change from BL	+18.2%				0.09	Compared to baseline	High
					csDMARDs + andidepressants (sertraline or	37				until 5Y	-47.4%				< 0.001		-
					mianserine)												
					csDMARDs + bDMARDs csDMARDs + bDMARDs + andidepressants	27 9					+2.1%				ns 0.03		
					(sertraline or mianserine)	9					-00.776				0.03		
					csDMARDs	32			Frequency of minor depressive disorder	Change from BL	+2.2%				ns		
					csDMARDs + andidepressants (sertraline or	37				until 5Y	-26.3%				<0.001		
					mianserine)	27											
					csDMARDs + bDMARDs csDMARDs + bDMARDs + andidepressants	9					+11.7%				ns ns		
					(sertraline or mianserine)	9					-10.7%				115		
					csDMARDs	32			Frequency of anxiety disorder	Change from BL	-23.7%				0.021		
					csDMARDs + andidepressants (sertraline or	37				until 5Y	-26.3%				<0.001		
					mianserine) csDMARDs + bDMARDs	27					-18.5%				0.047		
					csDMARDs + bDMARDs csDMARDs + bDMARDs + andidepressants	9					-18.5% -16.7%				0.047 ns		
					(sertraline or mianserine)	-											
					csDMARDs	32			Frequency of cognitive disorder	Change from BL	+14.0%				0.16		
					csDMARDs + andidepressants (sertraline or	37				until 5Y	-18.9%				0.25		
					mianserine) csDMARDs + bDMARDs	27					+7.2%				ns		
					csDMARDs + bDMARDs + andidepressants	9					-14.3%				ns		
					(sertraline or mianserine)												
and, 2018^		546	NR		Sarilumab (200mg q2w)	NR	Placebo	NR	Domains on SF-36 mental health: Probable	24W					p<0.05	Intervention higher on all domains except for role-emotional	High
	(TARGET)			Probable Probable depressed mood and anhedonia 50.4%					major depressive disorder Domains on SF-36 mental health: Probable						p<0.05	Intervention higher on all domains	
				30.4%					depressed mood and anhedonia						p<0.03	mervemen ngrier on all domains	
		1197	NR	Probable major depressive disorder 60.2%;					Domains on SF-36 mental health: Probable						p<0.05	Intervention higher on all domains except for role-emotional and	
	(MOBILITY))		Probable Probable depressed mood and anhedonia					major depressive disorder							physical functioning	
	(IVIOBILITY)																
LMONARY DISEASE idies comparing patie	nts with vs w								Domains on SF-36 mental health: Probable depressed mood and anhedonia						p<0.05	Intervention higher on all domains except for role-emotional and physical functioning	
LMONARY DISEASE idies comparing patie	nts with vs w	without come	orbidity on tr	Baricitinib: depression (n=64), osteoporosis (n=113), hepatic disorder (n=220). O'disorder (n=300) pulmonary disorder (n=77), not further explained;	Barickinib (4mg)	77 726	Placebo	89 792	Domains on SF-36 mental health: Probable depressed mood and anhedonia ACR20 response: with pulmonary disorder ACR20 response: without pulmonary disorder	12W	66.2% 67.6%	32.6% 39.9%			p<0.05		High
LMONARY DISEASE idies comparing patie	nts with vs w			eatment effect Baricitinib: depression (n=64), osteoporosis (n=113), hepatic disorder (n=222), CV disorder (n=350),	Barictinb (4mg)		Placebo		Domains on SF-36 mental health: Probable depressed mood and anhedonia ACR20 response: with pulmonary disorder	12W					p<0.05		High
LMONARY DISEASE idies comparing patie	nts with vs w			Baricitinib: depression (n=64), osteoporosis (n=113), hepatic disorder (n=22), CV disorder (n=350), pulmonary disorder (n=77), nor further explained; Placebo: depression (n=69), osteoporosis (n=134).	Barickinb (4mg)	726 77 726	Placebo	792 89 792	Domains on SF-36 mental health: Probable depressed mood and arhedonia ACR20 response: with pulmonary disorder ACR20 response: without pulmonary disorder ACR50 response: without pulmonary disorder ACR50 response: without pulmonary disorder	12W	67.6% 40.3% 41.2%	39.9% 12.4% 14.6%			p<0.05		High
LMONARY DISEASE idies comparing patie	nts with vs w			Baricibib: depression (n=64), osteoporosis (n=113), hepaisc disorder (n=22); CV disorder (n=350), pulmorang disorder (n=7), not further explained; Pistecho: depression (n=69), osteoporosis (n=134), hepaisc disorder (n=23); CV disorder (n=381),	Barickinib (4mg)	726 77 726 77	Placebo	792 89 792	Domains on SF-36 mental health: Probable depressed mood and anhedonia ACR20 response: with pulmonary disorder ACR20 response: with pulmonary disorder ACR30 response: with pulmonary disorder ACR30 response: with pulmonary disorder ACR30 response: with pulmonary disorder DAS28-bCR98-3.2: with pulmonary disorder	12W	67.6% 40.3% 41.2% 37.7%	39.9% 12.4% 14.6% 16.9%			p<0.05		High
LMONARY DISEASE idies comparing patie	nts with vs w			Baricibib: depression (n=64), osteoporosis (n=113), hepaisc disorder (n=22); CV disorder (n=350), pulmorang disorder (n=7), not further explained; Pistecho: depression (n=69), osteoporosis (n=134), hepaisc disorder (n=23); CV disorder (n=381),	Barictinb (4mg)	726 77 726	Placebo	792 89 792	Domains on SF-36 mental health: Probable depressed mood and arhedonia ACR20 response: with pulmonary disorder ACR20 response: without pulmonary disorder ACR50 response: without pulmonary disorder DAS28-MCRPS-3.2: with pulmonary disorder	12W	67.6% 40.3% 41.2%	39.9% 12.4% 14.6%			p<0.05		High
LMONARY DISEASE diles comparing patie diles regarding effica mbe, 2019 ^A	nts with vs w Y Non-RCT	1684	NR	Baricinib: depression (n=64), osteoporosis (n=113), hepatis (daorder (n=22)), O'disorder (n=350), pulmonary disorder (n=7), not further explained; Piscebo: depression (n=69), osteoporosis (n=134), pulmonary disorder (n=810), O'disorder (n=811), pulmonary disorder (n=89), not further explained	Barictinb (4mg)	726 77 726 77	Placebo	792 89 792	Domains on SF-36 mental health: Probable depressed mood and anhedonia ACR20 response: with pulmonary disorder ACR20 response: with pulmonary disorder ACR20 response: with pulmonary disorder ACR30 response: with pulmonary disorder ACR30 response: with pulmonary disorder DAS28-bCR98-3.2: with pulmonary disorder	12W	67.6% 40.3% 41.2% 37.7%	39.9% 12.4% 14.6% 16.9%			p<0.05		High
LMONARY DISEASE didies comparing patie didies regarding effica mbe, 2019 ^a didies comparing differe didies comparing differe didies regarding effica	ent interven	1684	NR	Baricinib: depression (n=64), osteoporosis (n=113), hepsix (disorder [n=22]), V disorder (n=550), pulmonary disorder [n=7), not further explained; Placebo depression (n=69), osteoporosis (n=134), pulmonary disorder (n=701), of Vidrorder (n=811), pulmonary disorder (n=89), not further explained		726 77 726 77 726		792 89 792 89 792	Domains on SF-36 mental health: Probable depressed mood and arhedonia ACR20 response: with pulmonary disorder ACR20 response: with pulmonary disorder ACR20 response: without pulmonary disorder ACR30 response: without pulmonary disorder DAS28-MCR9-3.2: without pulmonary disorder disorder.		67.6% 40.3% 41.2% 37.7% 44.5%	39.9% 12.4% 14.6% 16.9% 16.5%			p<0.05		High
LMONARY DISEASE diles comparing patie diles regarding effica mbe, 2019 ^A	nts with vs w Y Non-RCT	1684	NR	Baricinib: depression (n=64), osteoporosis (n=113), hepatis (daorder (n=22)), O'disorder (n=350), pulmonary disorder (n=7), not further explained; Piscebo: depression (n=69), osteoporosis (n=134), pulmonary disorder (n=810), O'disorder (n=811), pulmonary disorder (n=89), not further explained		726 77 726 77	Placebo	792 89 792	Domains on SF-36 mental health: Probable depressed mood and arhedonia ACR20 response: with pulmonary disorder ACR20 response: without pulmonary disorder ACR50 response: without pulmonary disorder DAS28-MCRPS-3.2: with pulmonary disorder		67.6% 40.3% 41.2% 37.7%	39.9% 12.4% 14.6% 16.9%			p<0.05		High
LMONARY DISEASE didies comparing patie didies regarding effica mbe, 2019 ^a didies comparing differe didies comparing differe didies regarding effica	ent interven	1684	NR	Baricitinib: depression (n=64), osteoporosis (n=113), hepsite (doorder (n=22)); CV disorder (n=230), pulmonary disorder (n=77), not turbur explained: Patecho expression (n=69), osteoporosis (n=134), pulmonary disorder (n=82); CV disorder (n=821), pulmonary disorder (n=82), not further explained horbidity Baricitinib: depression (n=64), osteoporosis (n=113),		726 77 726 77 726		792 89 792 89 792	Domains on SF-36 mental health: Probable depressed mood and arhedonia ACR20 response: with pulmonary disorder ACR20 response: without pulmonary disorder ACR50 response: without pulmonary disorder ACR50 response: without pulmonary disorder ACR50 response: without pulmonary disorder DAS28-hcRPs3.2: with pulmonary disorder DAS28-hcRPs3.2: without pulmonary disorder ACR50 response: with pulmonary disorder		67.6% 40.3% 41.2% 37.7% 44.5%	39.9% 12.4% 14.6% 16.9% 16.5%			p<0.05		High
LMONARY DISEASE didies comparing patie didies regarding effica mbe, 2019 ^a didies comparing differe didies comparing differe didies regarding effica	ent interven	1684	NR	Baricinib: depression (n=64), osteoporosis (n=113), hepatic (disorder (n=22)), CV disorder (n=350), pulmonary disorder (n=7), not further explained; Placebo epperssion (n=69), osteoporosis (n=134), pulmonary disorder (n=301), CV disorder (n=381), pulmonary disorder (n=89), not further explained horbidity Baricinib: depression (n=64), osteoporosis (n=113), hepatic disorder (n=22), CV disorder (n=550), pulmonary disorder (n=722), CV disorder (n=550), pulmonary disorder (n=77), not further explained: Placebo: depression (n=69), osteoporosis (n=143), Placebo: depression (n=69), osteoporosis (n=143).		726 77 726 77 726 77 726		792 89 792 89 792 89 792	Domains on SF-36 mental health: Probable depressed mood and arhedonia ACR20 response: with pulmonary disorder ACR20 response: with pulmonary disorder ACR30 response: without pulmonary disorder DAS28+MCR9-3.2 without pulmonary disorder ACR30 response: with pulmonary disorder ACR30 response wi		67.6% 40.3% 41.2% 37.7% 44.5% 66.2% 67.6% 40.3%	39.9% 12.4% 14.6% 16.9% 16.5% 32.6% 39.9% 12.4%			p<0.05		High High
LMONARY DISEASE didies comparing patie didies regarding effica mbe, 2019 ^a didies comparing differe didies comparing differe didies regarding effica	ent interven	1684	NR	Baricishib: depression (n=64), osteoporosis (n=113), hepatic (dsorder (n=22)), CV disorder (n=350), pulmonary (dsorder (n=7)), not further explained: Placebo depression (n=65), osteoporosis (n=134), pulmonary (dsorder (n=23)), CV disorder (n=281), pulmonary disorder (n=69), not further explained sonotelative. Baricitishib: depression (n=64), osteoporosis (n=113), hepatic disorder (n=221), CV disorder (n=350), pulmonary disorder (n=7), not further explained: Placebo depression (n=65), osteoporosis (n=134), hepatic disorder (n=70), Tot further explained: Placebo depression (n=65), osteoporosis (n=134), hepatic disorder (n=201), CV disorder (n=381),		726 77 726 77 726 77 726		792 89 792 89 792 89 792	Domains on SF-36 mental health: Probable depressed mood and anhedonia ACR20 response: with pulmonary disorder ACR20 response: without pulmonary disorder ACR20 response: without pulmonary disorder ACR30 response: with pulmonary disorder DAS28-bsCRPS-3.2: without pulmonary disorder DAS28-bsCRPS-3.2: without pulmonary disorder ACR20 response: with pulmonary disorder ACR20 response: with pulmonary disorder		67.6% 40.3% 41.2% 37.7% 44.5% 66.2% 67.6%	39.9% 12.4% 14.6% 16.9% 16.5% 32.6% 39.9%			p<0.05		High High
LMONARY DISEASE didies comparing patie didies regarding effica mbe, 2019 ^a didies comparing differe didies comparing differe didies regarding effica	ent interven	1684	NR	Baricinib: depression (n=64), osteoporosis (n=113), hepatic (disorder (n=22)), CV disorder (n=350), pulmonary disorder (n=7), not further explained; Placebo epperssion (n=69), osteoporosis (n=134), pulmonary disorder (n=301), CV disorder (n=381), pulmonary disorder (n=89), not further explained horbidity Baricinib: depression (n=64), osteoporosis (n=113), hepatic disorder (n=22), CV disorder (n=550), pulmonary disorder (n=722), CV disorder (n=550), pulmonary disorder (n=77), not further explained: Placebo: depression (n=69), osteoporosis (n=143), Placebo: depression (n=69), osteoporosis (n=143).		726 77 726 77 726 77 726 77 726		792 89 792 89 792 89 792 89 792	Domains on SF-36 mental health: Probable depressed mood and arhedonia ACR20 response: with pulmonary disorder ACR20 response: with pulmonary disorder ACR30 response: without pulmonary disorder DAS28+hCR9-3.2: without pulmonary disorder ACR30 response: with pulmonary disorder ACR30 response: without pul		67.6% 40.3% 41.2% 37.7% 44.5% 66.2% 67.6% 40.3% 41.2%	39.9% 12.4% 14.6% 16.9% 16.5% 32.6% 39.9% 12.4% 14.6%			p<0.05		High
LMONARY DISEASE didies comparing patie didies regarding effica mbe, 2019 ^a didies comparing differe didies comparing differe didies regarding effica	ent interven	1684	NR	Baricishib: depression (n=64), osteoporosis (n=113), hepatic (dsorder (n=22)), CV disorder (n=350), pulmonary (dsorder (n=7)), not further explained: Placebo depression (n=65), osteoporosis (n=134), pulmonary (dsorder (n=23)), CV disorder (n=281), pulmonary disorder (n=69), not further explained sonotelative. Baricitishib: depression (n=64), osteoporosis (n=113), hepatic disorder (n=221), CV disorder (n=350), pulmonary disorder (n=7), not further explained: Placebo depression (n=65), osteoporosis (n=134), hepatic disorder (n=70), Tot further explained: Placebo depression (n=65), osteoporosis (n=134), hepatic disorder (n=201), CV disorder (n=381),		726 77 726 77 726 77 726		792 89 792 89 792 89 792	Domains on SF-36 mental health: Probable depressed mood and arhedonia ACR20 response: with pulmonary disorder ACR20 response: with pulmonary disorder ACR30 response: without pulmonary disorder DAS28+MCR9-3.2 without pulmonary disorder ACR30 response: with pulmonary disorder ACR30 response wi		67.6% 40.3% 41.2% 37.7% 44.5% 66.2% 67.6% 40.3%	39.9% 12.4% 14.6% 16.9% 16.5% 32.6% 39.9% 12.4%			p<0.05		High
LMONARY DISEASE diels comparing astielders regarding effica mbe, 2019 ^a dies regarding effica mbe, 2019 ^a dies comparing diffestiels regarding effica mbe, 2019 ^a dies regarding effica mbe, 2019 ^a	y Y Non-RCT ent interven Y Non-RCT	1684	NR	Baricishib: depression (n=64), osteoporosis (n=113), hepatic (dsorder (n=22)), CV disorder (n=350), pulmonary (dsorder (n=7)), not further explained: Placebo depression (n=65), osteoporosis (n=134), pulmonary (dsorder (n=23)), CV disorder (n=281), pulmonary disorder (n=69), not further explained sonotelative. Baricitishib: depression (n=64), osteoporosis (n=113), hepatic disorder (n=221), CV disorder (n=350), pulmonary disorder (n=7), not further explained: Placebo depression (n=65), osteoporosis (n=134), hepatic disorder (n=70), Tot further explained: Placebo depression (n=65), osteoporosis (n=134), hepatic disorder (n=201), CV disorder (n=381),		726 77 726 77 726 77 726 77 726		792 89 792 89 792 89 792 89 792	Domains on SF-36 mental health: Probable depressed mood and anhedonia ACR20 response: with pulmonary disorder ACR20 response: with pulmonary disorder ACR20 response: with pulmonary disorder ACR30 response: with pulmonary disorder ACR30 response: with pulmonary disorder DAS28-fbcCR95-3.2: with pulmonary disorder ACR20 response: with pulmonary disorder ACR20 response: with pulmonary disorder ACR20 response: with pulmonary disorder ACR30 response with pulmonary disorder ACR30 response with pulmonary disorder ACR30 response		67.6% 40.3% 41.2% 37.7% 44.5% 66.2% 67.6% 40.3% 41.2%	39.9% 12.4% 14.6% 16.9% 16.5% 32.6% 39.9% 12.4% 14.6%			p<0.05		High High
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EMONARY DISEASE dies comparing patie dies comparing patie dies regarding effica nhe, 2019* dies comparing difficanhe, 2019* dies comparing difficanhe, 2019* dies regarding efficanhe, 2019*	y Non-RCT ent interven y Non-RCT	1684 nations in pati 1684	NR ients with cor NR NR	Barichite: depression (n=64), asteoporols (n=113), begate diserte (n=212). Of disorder (n=359), begate diserte (n=272). Of disorder (n=359), begate diserte (n=77,000 of n=64), asteoporols (n=144), betacher depression (n=64), osteoporols (n=144), betacher depression (n=69,000 osteoporols (n=144), pulmonary disorder (n=202), Of disorder (n=381), pulmonary disorder (n=202), Of disorder (n=381), asteoporols (n=143), pulmonary disorder (n=202), Of disorder (n=359), passionary disorder (n=202), Of disorder (n=381), pulmonary disorder (n=202), Of disorder (n=381), pulmonary disorder (n=89), not further explained. COPO 100%	BarictinB (4mg) Abatacept	726 77 726 77 726 77 726 77 726 77 726 77 726 77 726 77 726	Placebo Another bDMA8D (matched cohort)	792 89 792 89 792 89 792 89 792 89 792	Domains on SF-36 mental health: Probable depressed mood and arhedonia ACR20 response: with pulmonary disorder ACR20 response: without pulmonary disorder ACR20 response: without pulmonary disorder ACR30 response: without pulmonary disorder ACR30 response: without pulmonary disorder ACR30 response: with pulmonary disorder ACR30 response: with pulmonary disorder ACR30 response: with pulmonary disorder ACR30 response: without pulmonary disorder LACR30 response: without		67.6% 40.3% 41.2% 37.7% 44.5% 66.2% 67.6% 40.3% 41.2% 37.7% 44.5%	39.9% 12.4% 14.6% 16.9% 16.5% 32.6% 39.9% 12.4% 14.6% 16.5%			p+0.05	HR: 0.87 (0.68-112); OR 31 favours abstracept HR: 0.60 (0.32-111); OR 31 favours abstracept HR: 0.60 (0.32-111); OR 31 favours abstracept HR: 0.80 (0.55-1.41); OR 31 favours abstracept HR: 1.30 (0.51-1.41); OR 31 favours abstracept HR: 1.30 (0.51-1.51); OR 31 favours abstracept HR: 1.30 (0.51-1.51); OR 31 favours abstracept	High High
EMONARY DISEASE dies comparing patie dies comparing patie dies regarding effica nobe, 2019* dies comparing difficante, 2019* dies comparing difficante, 2019* dies regarding efficante, 2019* dies regarding efficante, 2019*	y Non-RCT ent interven y Non-RCT	1684 ntions in pati	NR ients with cor NR	Baricishi: depression (n=64), osteoporosis (n=113), hepsite Gaorder (n=22); (V disorder (n=250), pulmonary disorder (n=7), not further explained; Placebo depression (n=64), osteoporosis (n=134), pulmonary disorder (n=201); (V disorder (n=201)); pulmonary disorder (n=89), not further explained horbidity Baricithib: depression (n=64), osteoporosis (n=113), hepsite Gaorder (n=221); (V disorder (n=250), pulmonary disorder (n=7), not further explained; Placebo depression (n=69), osteoporosis (n=114), hepsite Gaorder (n=201); (V disorder (n=818), pulmonary disorder (n=701), not further explained; Placebo depression (n=69), not further explained. COPD 100%	Barictinb (4mg) Abstacept Abatacept (-60 kg: 500mg: 60-100kg: 750 mg.	726 77 726 77 726 77 726 77 726 77 726 77 726 77 726 77 726	Placebo	792 89 792 89 792 89 792 89 792 89 792	Domains on SF-36 mental health: richable depressed mood and anhedonia ACR20 response: with pulmonary disorder ACR30 response: with pulmonary disorder DAS28-bcCR9s-3.2: with pulmonary disorder DAS28-bcCR9s-3.2: without pulmonary disorder ACR20 response: with pulmonary disorder ACR20 response: with pulmonary disorder ACR20 response: with pulmonary disorder ACR30-bcCR9s-3.2: without pulmonary disorder ACR30-bcCR9s-3.2: without pulmonary disorder DAS28-bcCR9s-3.2: without pulmonary di		67.6% 40.3% 41.2% 37.7% 44.5% 66.2% 66.2% 67.6% 40.3% 41.2% 37.7% 44.5%	39.9% 12.4% 14.6% 16.5% 32.6% 39.9% 12.4% 14.6% 16.5%			p+0.05	HR: 0.87 (0.68-1.12); OR > 1 favours abstacept HR: 0.60 (0.32-1.11); OR > 1 favours abstacept HR: 0.60 (0.32-1.11); OR > 1 favours abstacept HR: 0.80 (0.55-1.14); OR > 1 favours abstacept HR: 0.80 (0.56-1.14); OR > 1 favours abstacept HR: 130 (0.91-2.10); OR > 1 favours abstacept	High High High
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EMONARY DISEASE dies comparing patie dies comparing patie dies regarding effica nobe, 2019* dies comparing difficante, 2019* dies comparing difficante, 2019* dies regarding efficante, 2019* dies regarding efficante, 2019*	y Non-RCT ent interven y Non-RCT	1684 nations in pati 1684	NR ients with cor NR NR	Barichinè. depression (n=64), osteoporosis (n=13), hepsilic disorder (n=22), CV disorder (n=350), asseption (n=64), osteoporosis (n=14), hepsilic disorder (n=36), osteoporosis (n=14), hepsilic disorder (n=30), CV disorder (n=38), pulmonary disorder (n=89), not further explained norder (n=89), not further explained (n=64), osteoporosis (n=14), hepsilic disorder (n=66), osteoporosis (n=14), hepsilic disorder (n=721), CV disorder (n=30), hepsilic disorder (n=721), CV disorder (n=88), hepsilic disorder (n=80), not further explained (n=69), not	Barictinb (4mg) Abstacept Abatacept (-60 kg: 500mg: 60-100kg: 750 mg.	726 77 726 77 726 77 726 77 726 77 726 77 726 77 726 77 726	Placebo Another bDMA8D (matched cohort)	792 89 792 89 792 89 792 89 792 89 792	Domains on SF-36 mental health: richable depressed mood and anhedonia ACR20 response: with pulmonary disorder ACR30 response: with pulmonary disorder DAS28-bcCR9s-3.2: with pulmonary disorder DAS28-bcCR9s-3.2: without pulmonary disorder ACR20 response: with pulmonary disorder ACR20 response: with pulmonary disorder ACR20 response: with pulmonary disorder ACR30-bcCR9s-3.2: without pulmonary disorder ACR30-bcCR9s-3.2: without pulmonary disorder DAS28-bcCR9s-3.2: without pulmonary di		67.6% 40.3% 41.2% 37.7% 44.5% 66.2% 66.2% 67.6% 40.3% 41.2% 37.7% 44.5%	39.9% 12.4% 14.6% 16.5% 32.6% 39.9% 12.4% 14.6% 16.5%			p+0.05	HR: 0.87 (0.68-112); OR 31 favours abstracept HR: 0.60 (0.32-111); OR 31 favours abstracept HR: 0.60 (0.32-111); OR 31 favours abstracept HR: 0.80 (0.55-1.41); OR 31 favours abstracept HR: 1.30 (0.51-1.41); OR 31 favours abstracept HR: 1.30 (0.51-1.51); OR 31 favours abstracept HR: 1.30 (0.51-1.51); OR 31 favours abstracept	High High
MONARY DISEASE. Best comparing selections required effica- able, 2019** des comparing difference able, 2019* des comparing difference able, 2019* des comparing difference able, 2019* des regarding safeth, 2019 dies regarding safeth, 2019	y Non-RCT ent interven y Non-RCT	1684 nations in pati 1684	NR ients with cor NR NR	Barichinè. depression (n=64), osteoporosis (n=13), hepsilic disorder (n=22), CV disorder (n=350), asseption (n=64), osteoporosis (n=14), hepsilic disorder (n=36), osteoporosis (n=14), hepsilic disorder (n=30), CV disorder (n=38), pulmonary disorder (n=89), not further explained norder (n=89), not further explained (n=64), osteoporosis (n=14), hepsilic disorder (n=66), osteoporosis (n=14), hepsilic disorder (n=721), CV disorder (n=30), hepsilic disorder (n=721), CV disorder (n=88), hepsilic disorder (n=80), not further explained (n=69), not	BarictinB (4mg) Abatacept Abatacept (-60 kg: 500mg; 60-100kg: 750 mg; >1000 mg; at 0.1, 0.15, 0.29 and then	726 77 726 77 726 77 726 77 726 77 726 77 726 77 726 77 726	Placebo Another bDMA8D (matched cohort)	792 89 792 89 792 89 792 89 792 89 792	Domains on SF-36 mental health: richable depressed mood and anhedonia ACR20 response: with pulmonary disorder ACR30 response: with pulmonary disorder DAS28-hcCR9-3.2: with pulmonary disorder DAS28-hcCR9-3.2: without pulmonary disorder ACR20 response: with pulmonary disorder ACR30-response: with pulmonary disorder ACR30-response: with pulmonary disorder ACR30-response: with pulmonary disorder DAS28-hcCR9-3.2: without pulmonary disorder DA		67.6% 40.3% 41.2% 41.2% 44.5% 44.5% 46.2% 66.2% 67.6% 40.3% 41.2% 37.7% 44.5%	39.9% 12.4% 14.6% 16.5% 16.5% 32.6% 33.9% 12.4% 14.6% 16.5%			p+0.05	HR: 0.87 (0.68-112); OR 31 favours abstracept HR: 0.60 (0.32-111); OR 31 favours abstracept HR: 0.60 (0.32-111); OR 31 favours abstracept HR: 0.80 (0.55-1.41); OR 31 favours abstracept HR: 1.30 (0.51-1.41); OR 31 favours abstracept HR: 1.30 (0.51-1.51); OR 31 favours abstracept HR: 1.30 (0.51-1.51); OR 31 favours abstracept	High High
chmonary DISEASE determining national determining n	tis with vs w V Non-RCT ent interven Y V Non-RCT	1684 1684 5324	NR NR NR 9.7Y	Baricishib: depression (n=64), osteoporosis (n=113), hepatic (disorder (n=22)), CV (disorder (n=230), pulmonary disorder (n=77), not further explained; hepatic (disorder (n=78), not further explained; hepatic (disorder (n=30), CV (disorder (n=381), pulmonary disorder (n=89), not further explained northistis. Baricishib: depression (n=64), osteoporosis (n=113), hepatic (disorder (n=22)), CV disorder (n=250), pulmonary disorder (n=77), not further explained; Placebo depression (n=69), osteoporosis (n=114), hepatic disorder (n=720), CV disorder (n=781), pulmonary disorder (n=77), not further explained COPO 100% COPO 100%	BarictinB (4mg) Abatacept Abatacept (-60 kg: 500mg; 60-100kg: 750 mg; >1000 mg; at 0.1, 0.15, 0.29 and then	726 77 726 77 726 77 726 77 726 77 726 77 726 77 726 77 726	Placebo Another bDMA8D (matched cohort)	792 89 792 89 792 89 792 89 792 89 792	Domains on SF-36 mental health: richable depressed mood and anhedonia ACR20 response: with pulmonary disorder ACR30 response: with pulmonary disorder DAS28-hcCR9-3.2: with pulmonary disorder DAS28-hcCR9-3.2: without pulmonary disorder ACR20 response: with pulmonary disorder ACR30-response: with pulmonary disorder ACR30-response: with pulmonary disorder ACR30-response: with pulmonary disorder DAS28-hcCR9-3.2: without pulmonary disorder DA		67.6% 40.3% 41.2% 41.2% 44.5% 44.5% 46.2% 66.2% 67.6% 40.3% 41.2% 37.7% 44.5%	39.9% 12.4% 14.6% 16.5% 16.5% 32.6% 33.9% 12.4% 14.6% 16.5%			p+0.05	HR: 0.87 (0.68-112); OR 31 favours abstracept HR: 0.60 (0.32-111); OR 31 favours abstracept HR: 0.60 (0.32-111); OR 31 favours abstracept HR: 0.80 (0.55-1.41); OR 31 favours abstracept HR: 1.30 (0.51-1.41); OR 31 favours abstracept HR: 1.30 (0.51-1.51); OR 31 favours abstracept HR: 1.30 (0.51-1.51); OR 31 favours abstracept	High High High
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ACR American College of Reumatology, AE: oderse event, AIT: alsonive transaminase; onti-NE: hepatitis Econe antigen; AST: apported transaminase; DMARD bologe disease modifying antithe-umatic drug. BI: boseline; BMI: body mass index CAD: cononey artery disease; CDMARD: connectional synthetis disease modifying antithe-umatic drug. CV(D): cardiovascular disease; D: day, DAS28: disease articley score exists. Significant in the control of the