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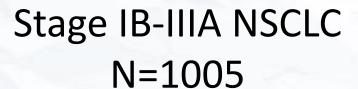
藥物諮詢組



"The nationalist and competitive approaches taken by a few high-income countries to get hold of a small supply of vaccines could result in excessive casualties in other parts of the world."

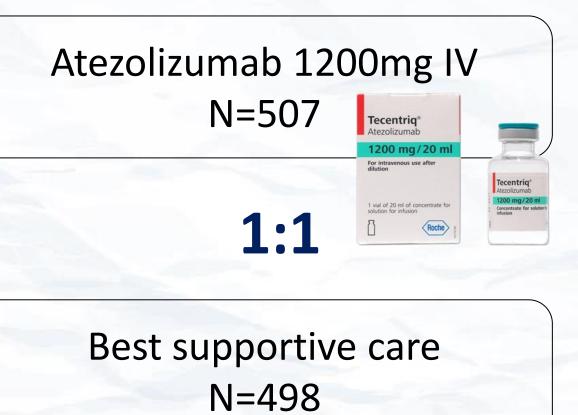
Adjuvant atezolizumab after adjuvant chemotherapy in resected stage IB-IIIA non-small-cell lung cancer (IMpower010): a randomised, multicentre, open-label, phase 3 trial

Lancet 2021; 398: 1344-57



Inclusion Criteria

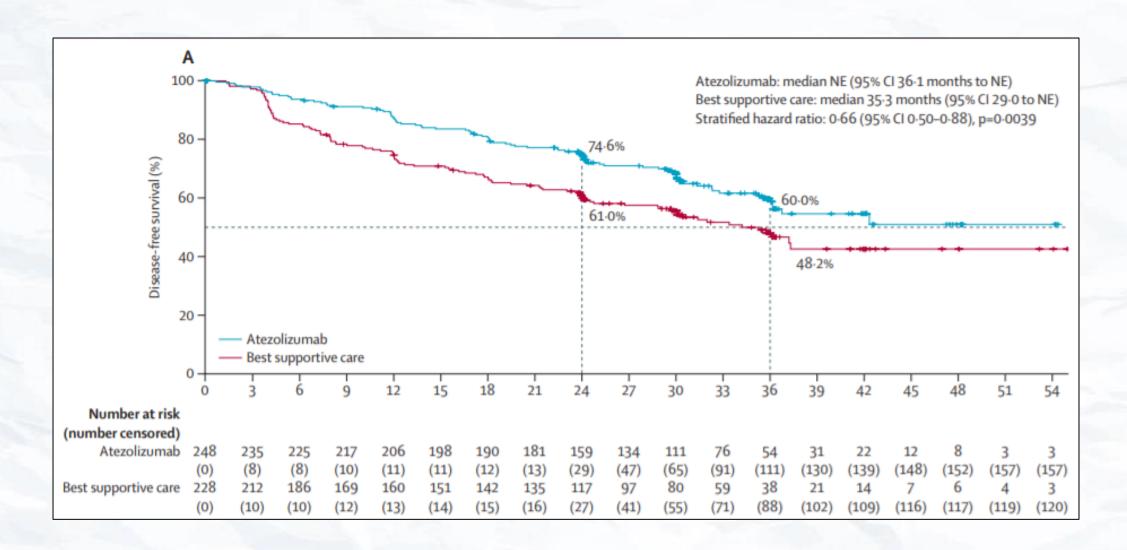
- ≥ 18 y/o
- Eastern Cooperative Oncology Group (ECOG) performance status 0 or 1
- Completely resected stage IB to IIIA NSCLC, and were able to receive cisplatin-based chemotherapy



Baseline characteristics

								PD-L1TC ≥1% s (SP263)	tage II-IIIA group	All stage II-IIIA	group	Intention-to-to (stage IB-IIIA)	reat group
	PD-L1TC ≥1% s (SP263)	stage II-IIIA group	All stage II-IIIA	group	Intention-to-to (stage IB-IIIA)	reat group		Atezolizumab (n=248)	Best supportive care (n=228)	Atezolizumab (n=442)	Best supportive care (n=440)	Atezolizumab (n=507)	Best supportive care (n=498)
	Atezolizumab	Best supportive	Atezolizumab	Best supportive	Atezolizumab	Best supportive	(Continued from previous page)						
	(n=248)	care (n=228)	(n=442)	care (n=440)	(n=507)	care (n=498)	EGFR mutation status†						
Age, years	61 (56-67)	62 (56-68)	62 (56-67)	62 (55-68)	62 (57-67)	62 (56-68)	Yes	23 (9%)	20 (9%)	49 (11%)	60 (14%)	53 (10%)	64 (13%)
Age group							No	123 (50%)	125 (55%)	229 (52%)	234 (53%)	261 (52%)	266 (53%)
<65 years	156 (63%)	131 (57%)	281 (64%)	263 (60%)	323 (64%)	300 (60%)	Unknown	102 (41%)	83 (36%)	164 (37%)	146 (33%)	193 (38%)	168 (34%)
≥65 years	92 (37%)	97 (43%)	161 (36%)	177 (40%)	184 (36%)	198 (40%)	ALK rearrangement status†						
Sex							Yes	12 (5%)	11 (5%)	14 (3%)	17 (4%)	15 (3%)	18 (4%)
Male	171 (69%)	147 (64%)	295 (67%)	294 (67%)	337 (66%)	335 (67%)	No	133 (54%)	121 (53%)	251 (57%)	256 (58%)	280 (55%)	294 (59%)
Female	77 (31%)	81 (36%)	147 (33%)	146 (33%)	170 (34%)	164 (33%)	Unknown	103 (42%)	96 (42%)	177 (40%)	167 (38%)	212 (42%)	186 (37%)
Race							PD-L1 status by SP263‡						
White	162 (65%)	166 (73%)	307 (69%)	324 (74%)	362 (71%)	376 (76%)	<1%	**		181 (41%)	202 (46%)	210 (41%)	234 (47%)
Asian	78 (31%)	56 (25%)	121 (27%)	106 (24%)	130 (26%)	112 (23%)	≥1%	248 (100%)	228 (100%)	248 (56%)	228 (52%)	283 (56%)	252 (51%)
Black or African American	2 (<1%)	0	4 (1%)	1(<1%)	5 (1%)	1(<1%)	PD-L1 status by SP142§						
Native Hawaiian or other Pacific Islander	1 (<1%)	1 (<1%)	1(<1%)	1(<1%)	1 (<1%)	1(<1%)	TCO/1 and ICO/1	77 (31%)	66 (29%)	198 (45%)	198 (45%)	231 (46%)	231 (46%)
Multiple	0	1 (<1%)	0	1(<1%)	0	1(<1%)	TCO/1 and IC2/3	66 (27%)	61 (27%)	127 (29%)	132 (30%)	146 (29%)	145 (29%)
Unknown	5 (2%)	4 (2%)	9 (2%)	7 (2%)	9 (2%)	7 (1%)	TC2/3 and any IC	105 (42%)	101 (44%)	117 (26%)	110 (25%)	130 (26%)	122 (25%)
ECOG performance status*							Stage						
0	140 (56%)	125 (55%)	239 (54%)	252 (57%)	273 (54%)	283 (57%)	IB	440	1000	C. 100	34	65 (13%)	58 (12%)
1	107 (43%)	102 (45%)	201 (45%)	187 (43%)	232 (46%)	214 (43%)	IIA	85 (34%)	76 (33%)	147 (33%)	148 (34%)	147 (29%)	148 (30%)
2	1 (<1%)	1 (<1%)	2 (<1%)	1(<1%)	2 (<1%)	1(<1%)	IIB	46 (19%)	37 (16%)	90 (20%)	84 (19%)	90 (18%)	84 (17%)
Histology							IIIA	117 (47%)	115 (50%)	205 (46%)	208 (47%)	205 (40%)	208 (42%)
Squamous	96 (39%)	85 (37%)	150 (34%)	144 (33%)	179 (35%)	167 (34%)	Type of surgery	P. TO T. A. M. S. CO.			0.7707.770.98. 8.8. 0.076	77.70° N. 3.77.70° C.	TOTAL MATERIAL CONTROL
Non-squamous	152 (61%)	143 (63%)	292 (66%)	296 (67%)	328 (65%)	331 (67%)	Lobectomy	186 (75%)	173 (76%)	335 (76%)	340 (77%)	394 (78%)	391 (79%)
Tobacco use history							Sleeve lobectomy	3 (1%)	3 (1%)	4 (1%)	4 (<1%)	4 (<1%)	4 (<1%)
Never	51 (21%)	41 (18%)	100 (23%)	96 (22%)	114 (23%)	108 (22%)	Bilobectomy	15 (6%)	9 (4%)	30 (7%)	17 (4%)	31 (6%)	19 (4%)
Previous	163 (66%)	146 (64%)	277 (63%)	270 (61%)	317 (63%)	304 (61%)	Pneumonectomy	43 (17%)	42 (18%)	72 (16%)	78 (18%)	77 (15%)	83 (17%)
Current	34 (14%)	41 (18%)	65 (15%)	74 (17%)	76 (15%)	86 (17%)	Other	1 (<1%)	1 (<1%)	1(<1%)	1(<1%)	1(<1%)	1(<1%)
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Outcomes-PD-L1 TC ≥1% stage II-IIIA group



Outcomes

36-month disease-free survival:

Atezolizumab group: 55.7%

Placebo group: 49.4%

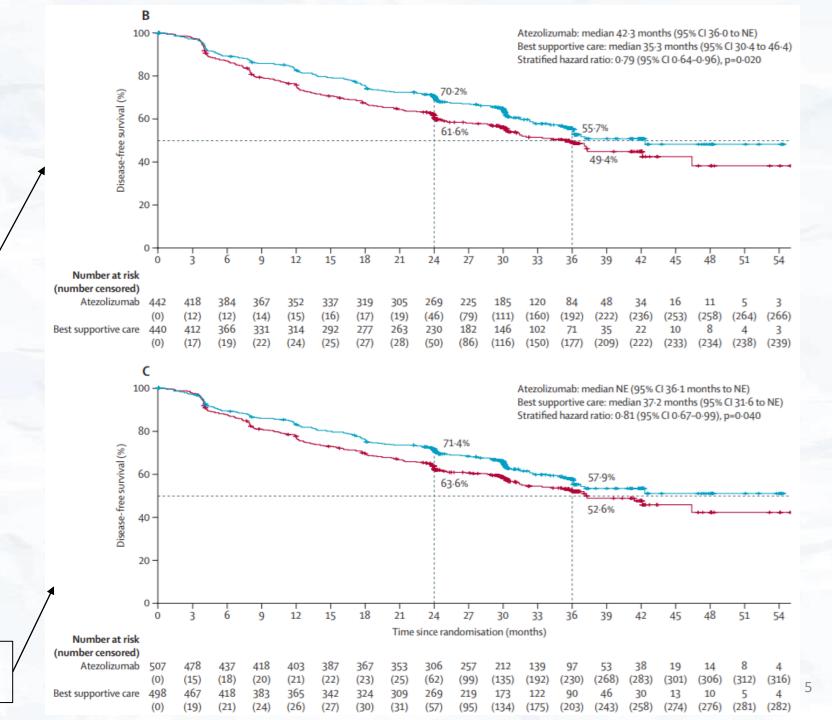
All stage II–IIIA group

36-month disease-free survival:

Atezolizumab group: 57.9%

Placebo group: 52.6%

Intention-to-treat group



Subgroup **Anaiysis**

Stage

IIA.

IIIA.

N0

N1

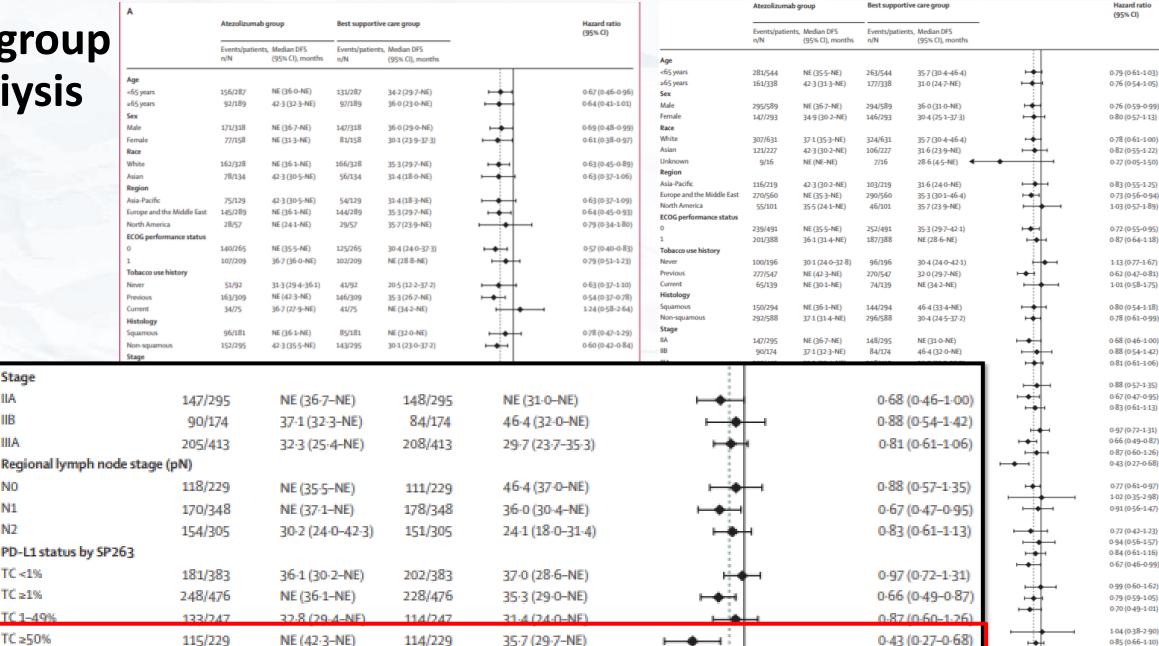
N2

TC <1%

TC ≥1%

TC 1-49%

TC ≥50%



Favours atezolizumab Favours best supportive care

⊢

Favours atezolizumab Favours best supportive care

0.66 (0.46-0.93) 0-79 (0-64-0-96)

Adverse event

	Atezolizumab	group (n=495)	Best supportive care group (n=495)			
	All grades	Grade 3-4	Grade 5	All grades	Grade 3-4	Grade 5
Any cause	459 (93%)	108 (22%)	8 (2%)†	350 (71%)	57 (12%)	3 (1%)‡
Cough	66 (13%)	0	0	46 (9%)	0	0
Pyrexia	65 (13%)	4 (1%)	0	11 (2%)	1 (<1%)	0
Hypothyroidism	55 (11%)	0	0	3 (1%)	0	0
Alanine aminotransferase increased	53 (11%)	8 (2%)	0	16 (3%)	1 (<1%)	0
Aspartate aminotransferase increased	53 (11%)	7 (1%)	0	16 (3%)	0	0
Arthralgia	52 (11%)	2 (<1%)	0	26 (5%)	0	0
Pruritus	51 (10%)	0	0	3 (1%)	0	0
Nasopharyngitis	33 (7%)	0	0	50 (10%)	0	0

Data are n (%). *Includes all-grade adverse events occurring in 10% or more of patients in either group, along with corresponding frequencies for grade 3-4 and grade 5 events. †Interstitial lung disease, multiple organ dysfunction syndrome, myocarditis, and acute myeloid leukaemia (all four events related to atezolizumab), and pneumothorax, cerebrovascular accident, arrhythmia, and acute cardiac failure. ‡Pneumonia; pulmonary embolism; and cardiac tamponade and septic shock in the same patient.

Table 3: Most commonly reported adverse events in the atezolizumab or best supportive care groups*

Conclusion

 Adjuvant atezolizumab shows a disease-free survival benefit in the stage II–IIIA population with PD-L1 TC ≥1% and in all patients in the stage II–IIIA population.

limitation

Open-label design



Tofacitinib in juvenile idiopathic arthritis: a double-blind, placebocontrolled, withdrawal phase 3 randomised trial

Lancet 2021; 398: 1984-96



Inclusion Criteria

- aged 2-18 years
- Polyarticular course JIA

Exclusion Criteria

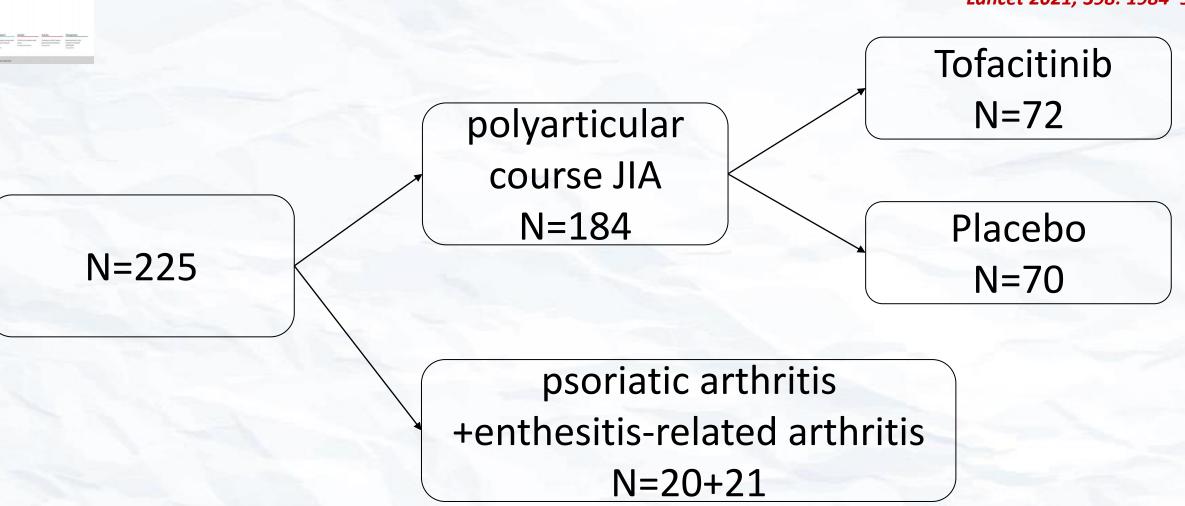
- systemic JIA with active systemic features other than active joints
- elevated acute-phase reactants within 6 months of enrolment
- persistent oligoarthritic
- undifferentiated JIA
- active uveitis within 3 months of enrolment





Tofacitinib in juvenile idiopathic arthritis: a double-blind, placebocontrolled, withdrawal phase 3 randomised trial

Lancet 2021; 398: 1984-96



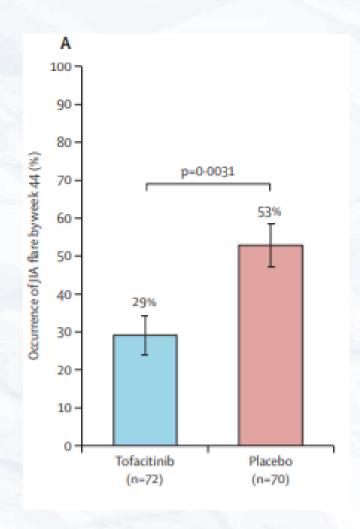
Baseline characteristics

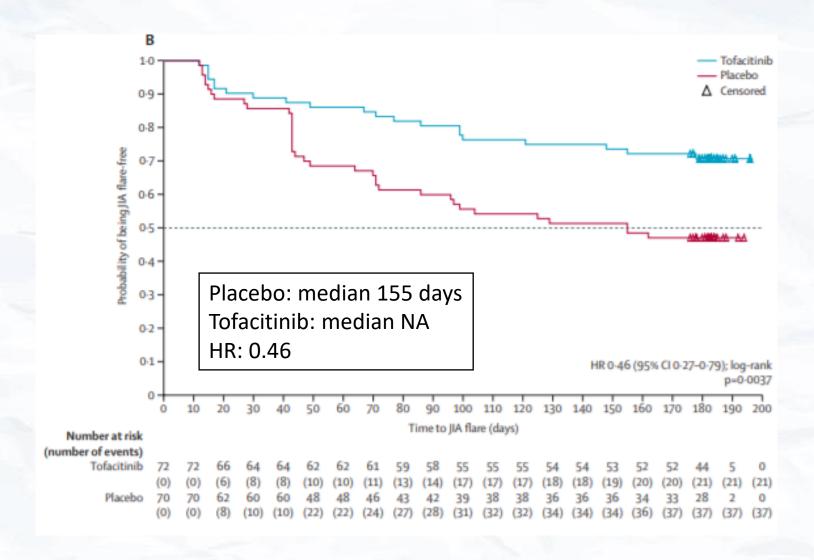
	All patients (n=225)	Patients with polyart	icular course JIA enroll	ed for primary outcom	e (n=184)	Patients with pso enthesitis-related for exploratory of	arthritis enrolled
		Extended oligoarthritis (n=28)	RF-positive polyarthritis (n=39)	RF-negative polyarthritis (n=104)	Systemic JIA* (n=13)	Psoriatic arthritis (n=20)	Enthesitis-related arthritis (n=21)
Patient characteristics							
Sex							
Female	169 (75%)	19 (68%)	35 (90%)	83 (80%)	5 (38%)	15 (75%)	12 (57%)
Male	56 (25%)	9 (32%)	4 (10%)	21 (20%)	8 (62%)	5 (25%)	9 (43%)
Age, years	13-0 (9-0-15-0)	11-5 (6-5-15-0)	15-0 (12-0-16-0)	12-0 (8-0-15-0)	10-0 (8-0-14-0)	14-5 (12-0-16-0)	13-0 (11-0-16-0)
2 to <6	22 (10%)	6 (21%)	0	14 (13%)	2 (15%)	0	0
6 to <12	64 (28%)	8 (29%)	5 (13%)	34 (33%)	6 (46%)	4 (20%)	7 (33%)
12 to <18	139 (62%)	14 (50%)	34 (87%)	56 (54%)	5 (38%)	16 (80%)	14 (67%)
Age at diagnosis years	8.0 (4.0-12.3)	3.9 (1.9-11-1)	12-8 (9-5-14-3)	6.1 (3.6-9.9)	2.5 (2.8.5.9)	12.0 (9.2-14.0)	10.1 (7.9-13.0)
Disease duration, years	2.5 (1.0-5.6)	4.0 (1-6-7-7)	1-8 (1-0-3-6)	3.5 (1.0-6.7)	5-4 (2-1-8-2)	1-5 (1-0-2-8)	1-9 (0-8-4-0)
Bodynnight, log	0.40000	No. Const.		Code and and a	a ef aux		(France)
<40	84 (37%)	12 (43%)	9 (23%)	46 (44%)	9 (69%)	2 (10%)	6 (29%)
≥40	141 (63%)	16 (57%)	30 (77%)	58 (56%)	4 (31%)	18 (90%)	15 (71%)
Race	SECOND SECOND	2020000000			- Name of the second	70072-000	104104-14105
White	196 (87%)	26 (93%)	29 (74%)	95 (91%)	11 (85%)	17 (85%)	18 (86%)
Black or African American	5 (2%)	0	3 (8%)	1 (1%)	0	0	1 (5%)
Other	24 (11%)	2 (7%)	7 (18%)	8 (8%)	2 (15%)	3 (15%)	2 (10%)
Disease activity measures							
Physician's global evaluation of overall disease activity†	6-0 (4-5-7-5)	6-8 (4-8-7-5)	6-5 (5-5-7-5)	6-5 (4-8-7-8)	7-5 (5-5-8-0)	5-0 (4-0-7-0)	6-0 (4-5-7-0)
Number of joints with active arthritis‡	10-0 (6-0-15-0)	7-0 (5-0-11-0)	11-0 (8-0-19-0)	10-0 (7-0-18-0)	9-0 (7-0-15-0)	11-0 (4-5-15-5)	7-0 (5-0-11-0)
Number of joints with limitation of motion§	6-0 (3-0-10-0)	5-0 (2-5-7-5)	4-0 (2-0-9-0)	6-0 (4-0-11-0)	9-0 (7-0-15-0)	5-0 (3-0-8-0)	5-0 (3-0-7-0)
CHAQ-DI score¶	0.9 (0.3-1.5)	1-0 (0-3-1-6)	1-3 (0-4-1-9)	0.8 (0.3-1-4)	1-6 (1-3-2-0)	0-5 (0-3-0-8)	0-6 (0-4-1-3)
Patient or parent assessment of	5-0 (3-0-7-0)	5-8 (4-0-7-0)	5-0 (2-5-6-0)	5-0 (3-0-7-0)	5.5 (3.5-8-0)	4-0 (3-0-6-5)	5-0 (2-5-6-5)
JADAS**	20-1 (16-2-26-6)	20-6 (16-6-24-6)	22-2 (18-8-26-9)	20-7 (16-6-28-8)	23-7 (17-2-27-2)	15-5 (13-6-19-6)	16-6 (13-2-18-7)
Duration of morning stiffness, min	30-0 (15-0-60-0)	30-0 (7-5-75-0)	30-0 (20-0-60-0)	30-0 (15-5-60-0)	45-0 (30-0-60-0)	30-0 (10-0-60-0)	30-0 (15-0-60-0
Laboratory parameters							
CRP††, mg/dL	0.3 (0.1-1.0)	0-2 (0-1-0-9)	0-6 (0-1-1-6)	0-2 (0-0-9)	0.6 (0.2-2.6)	0-2 (0-1-0-5)	0-1 (0-0-9)
ESR‡‡, mm/h	17-0 (10-0-32-0)	18-5 (10-0-32-5)	26-0 (10-0-40-0)	16-0 (10-0-26-5)	25-0 (8-0-45-0)	14-0 (10-0-28-5)	12-0 (7-0-29-0)

activity." ‡71 joints were assessed." \$67 joints were assessed." \$567 joints were assessed." \$10,000 with higher scores indicating more disability." worse wellbeing." **Scores could range from 0 to 57, with higher scores indicating more disease activity." †TNormal reference range was 0-0-287 mg/dL. ±1Normal reference range was 0-0-287 mg/dL.

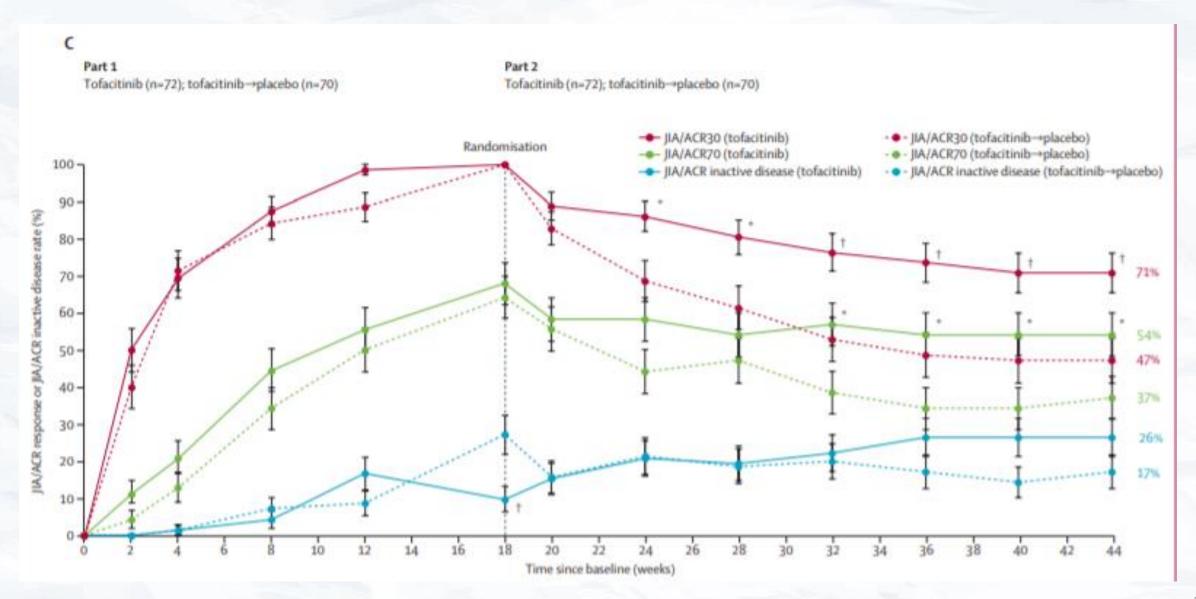
Table 1: Demographic and baseline disease characteristics of patients receiving to facitinib in part 1, overall, and stratified by JIA category

Primary Outcomes

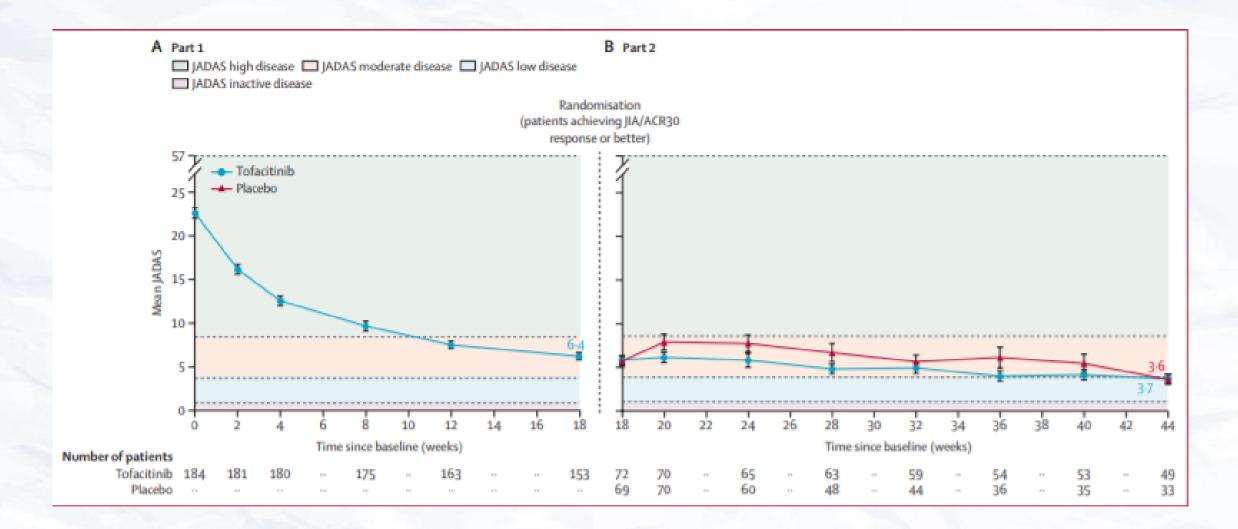




Primary Outcomes



Outcomes



Adverse event

	Part 1	Part 2		Entire tofacitinib exposure period*	
	Tofacitinib (n=225)	Tofacitinib (n=88)	Placebo (n=85)	Tofacitinib (n=225)	
Adverse events	153 (68%)	68 (77%)	63 (74%)	189 (84%)	
incidence rate per 100 patient-years (95% CI)	-	3/1-/ (200-0-4/1-2)	41/-0 (321-0-534-5)	394-0 (339-9-454-4)	
Serious adverse events	7 (3%)	1(1%)	2 (2%)	9 (4%)	
Incidence rate per 100 patient-years (95% CI)	-	2-4 (0-1-13-4)	6-0 (0-7-21-8)	7-3 (3-4-13-9)	
Severe adverse events	5 (2%)	0	3 (4%)	5 (2%)	
Permanent discontinuation from study due to adverse events	26 (12%)	16 (18%)	29 (34%)	49 (22%)	
Incidence rate per 100 patient-years (95% CI)		39-6 (22-6-64-3)	94-2 (63-1-135-3)	40-9 (30-3-54-1)	
Temporary dose reduction or temporary hold due to adverse events	20 (9%)	9 (10%)	8 (9%)	25 (11%)	
Most common adverse events by preferred term	n (≥10% in any treatment	group)			П
Upper respiratory tract infection	24 (11%)	13 (15%)	9 (11%)	34 (15%)	
Disease progression	5 (2%)	8 (9%)	13 (15%)	13 (6%)	
JIA exacerbation	6 (3%)	3 (3%)	12 (14%)	9 (4%)	
Adverse events of special interest†					
Deaths	0	0	0	0	
Hepatic events‡	3 (1%)	0	0	3 (1%)	
Herpes zoster (non-serious and serious)‡§	2 (1%)	0	0	2 (1%)	
Incidence rate per 100 patient-years	-		-	1-6 (0-2-5-9)	
Serious infection	3 (1%)	1 (1%)¶	1 (1%)	4 (2%)¶	
(95% CI)			3-0 (0-1-16-8)	2-4 (0-5-7-1)	
Creatine kinase >2·0 × ULN	12/224 (5%)	2 (2%)	2 (2%)	13/224 (6%)	
Haemoglobin <0-8 × LLN	1/224 (<0.5%)	1/87 (1%)	3 (4%)	2/224 (1%)	
Lymphocytes >1·2 × ULN	2/224 (1%)	1/87 (1%)	0	3/224 (1%)	
Neutrophils >1·2 × ULN	18/224 (8%)	7/87 (8%)	5 (6%)	19/224 (8%)	
AST ≥1-0 ×ULN	25 (11%)	12 (14%)	9 (11%)	35 (16%)	
ALT ≥1-0 ×ULN	33 (15%)	14 (16%)	11 (13%)	37 (16%)	
HDL cholesterol <0.8 × LLN	2/223 (1%)	oll	2/61 (3%)	2/223 (1%)	
LDL cholesterol >1·2 ×ULN	4/87 (5%)	0**	0††	4/87 (5%)	
Cholesterol >1·3×ULN	2/223 (1%)	0‡‡	oss	2/223 (1%)	

Adverse event

	Part 1		Part 2		
	Tofacitinib (n=225)		Tofacitinib (n=88)	Placebo (n=85) Week 44	
	Baseline	Week 18	Week 44		
Creatine kinase, U/L	72-0 (45-0-96-0)	97-0 (72-0-130-0)*	104-0 (83-0-159-0)†	80-0 (56-0-109-0)‡	
Haemoglobin, g/dL	12-4 (11-7-13-3)	12-8 (12-0-13-4)5	12-6 (12-2-13-2)¶	12-6 (12-3-13-5)‡	
Lymphocytes, 10 ³ cells per mm ³	2-1 (1-7-2-6)	2-0 (1-6-2-6)5	1-9 (1-6-2-4)¶	1.8 (1.7-2.4)‡	
Neutrophils, 103 cells per mm3	4-4 (3-1-5-6)	3-8 (2-9-5-1)5	3-6 (2-9-4-4)¶	3-6 (2-8-4-5)‡	
AST, U/L	20-0 (17-0-24-0)	22-0 (18-0-26-0)	23-0 (19-0-28-0)†	19-5 (17-0-26-0)‡	
ALT, U/L	13-0 (10-0-17-0)	13-0 (11-0-19-0)*	15-0 (12-0-20-0)†	13-0 (11-0-18-0)‡	
HDL cholesterol, mg/dL	50-1 (42-9-57-9)**	55-6 (47-5-64-1)††	54-8 (47-5-64-1)†	48-5 (44-8-52-0)‡	
Indirect LDL cholesterol, mg/dL	81-0 (64-0-94-0)**	81-9 (67-2-100-0)*	84-7 (68-0-106-9)†	79-0 (57-9-101-0)‡	
Cholesterol, mg/dL	151-0 (131-0-169-5)##	158-0 (139-8-179-0)††	157-9 (143-0-185-3)55	150-0 (130-9-177-0)‡	

Data are median (IQR). ALT-alanine aminotransferase. AST-aspartate aminotransferase. JIA-juvenile idiopathic arthritis. "Assessed in 186 patients. †Assessed in 187 patients. \$4 patients. \$4 patients. \$4 patients. \$4 patients. \$4 patients. \$4 patients. \$5 patients. \$5 patients. \$6 patients.

Table 3: Summary of laboratory values in patients with polyarticular course JIA, psoriatic arthritis, or enthesitis-related arthritis

Conclusion

 Tofacitinib is an effective treatment in patients with polyarticular course JIA

limitation

- Population was relatively small and predominantly White
- The follow-up length of this trial in patients with JIA was too short to assess long-term safety



Safety and immunogenicity of concomitant administration of COVID-19 vaccines (ChAdOx1 or BNT162b2) with seasonal influenza vaccines in adults in the UK (ComFluCOV): a multicentre, randomised, controlled, phase 4 trial

Inclusion Criteria

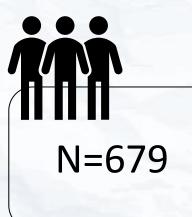
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- 接種注意事項
 - 1. 發燒或正患有急性中重度疾病者,宜待病情穩定後再接種。
 - 2. 本疫苗不得與其他廠牌交替使用。若不慎使用了兩劑不同COVID-19疫苗產品時,不建議再接種任何一種產品。 S
 - 3. 目前尚無資料顯示與其他疫苗同時接種對免疫原性與安全性的影響。COVID-19 疫苗與其他疫苗的接種間隔, 建議間隔至少7天。如小於上述間隔,則各該疫苗亦無需再補種。
 - 4. 免疫功能低下者,包括接受免疫抑制劑治療的人,對疫苗的免疫反應可能減弱。(向無免疫低下者或正在接受免疫抑制治療者的數據)
 - 5.目前沒有足夠數據建議孕婦可常規接種COVID-19疫苗,惟若為高感染風險可能因罹患COVID-19導致嚴重併發症的情形,可經醫師評估是否接種疫苗。
 - 6. 若哺乳中的婦女為建議接種之風險對象(如醫事人員),應完成接種。目前對哺乳中的婦女接種COVID-19疫苗的安全性、疫苗對母乳或受哺嬰兒之影響尚未完全得到評估,但一般認為並不會造成相關風險。接種COVID-19疫苗後,仍可持續哺乳。
- Drug or alcohol dependence, or a progressive neurological disorder

Randomised



BNT162b2 + inactivated quadrivalent N=139

ChAdOx1 + inactivated trivalent N=146

BNT162b2 + inactivated trivalent N=79

ChAdOx1 + recombinant quadrivalent N=128

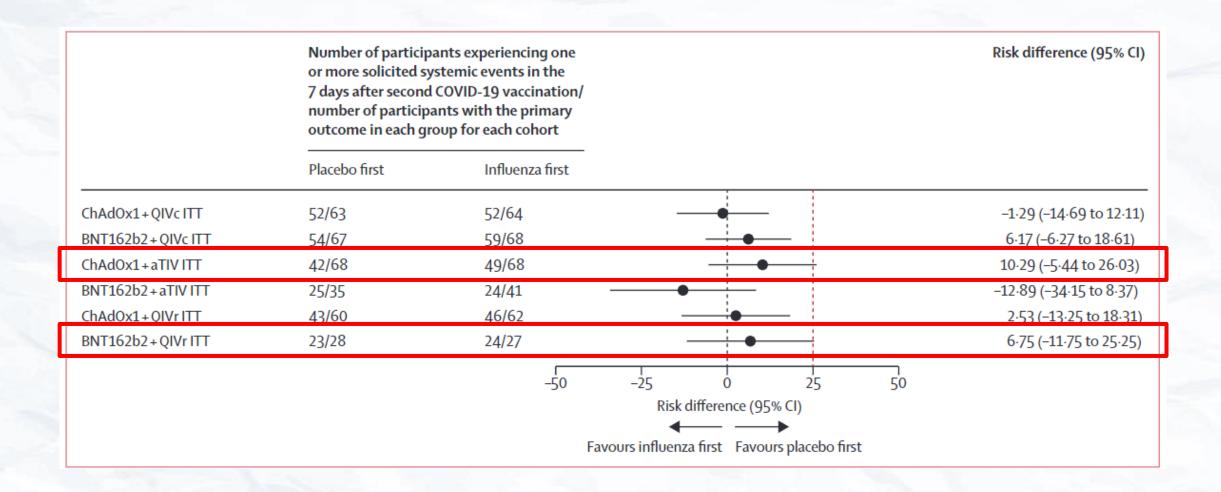
BNT162b2 + recombinant quadrivalent N=58

Baseline characteristics

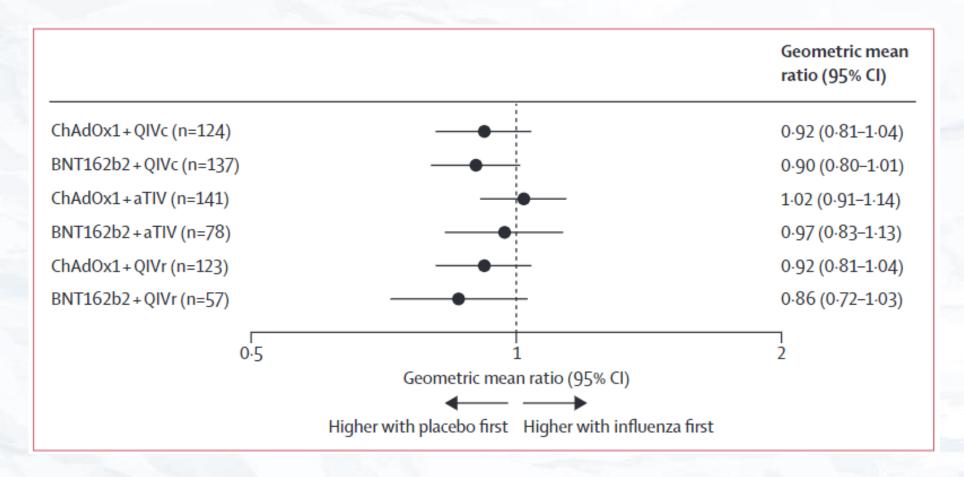
	quadrivaler	lus cellular nt vaccine	guadrivaler	plus cellular nt vaccine	ChAdOx1 p adjuvanted vaccine		BNT162b2 adjuvanted vaccine		ChAdOx1 pl recombinar quadrivaler	nt	BNT162b2 recombinar quadrivaler	nt
	Placebo first (n=64)	Flu first (n=65)	Placebo first (n=71)	Flu first (n=68)	Placebo first (n=73)	Flu first (n=73)	Placebo first (n=38)	Flu first (n=41)	Placebo first (n=64)	Flu first (n=64)	Placebo first (n=29)	Flu first (n=29)
Age at screening, years	54 (43-61)	52 (40-57)	47 (34–58)	48 (35-60)	71 (69–72)	69 (67–72)	68 (67–70)	68 (67–70)	52 (44-60)	56 (51–60)	39 (33-47)	42 (31–5
iex												
Female	38 (59%)	43 (66%)	48 (68%)	51 (75%)	31 (42%)	44 (60%)	14 (37%)	24 (59%)	37 (58%)	34 (53%)	15 (52%)	18 (62%
Male	26 (41%)	22 (34%)	23 (32%)	17 (25%)	42 (58%)	29 (40%)	24 (63%)	17 (41%)	27 (42%)	30 (47%)	14 (48%)	11 (38%
Body-mass index, kg/m²	27 (24-29)	28 (25-35)	27 (23-34)	27 (24-31)	27 (24-30)	28 (26-32)	28 (25-31)	28 (26-31)	29 (24-33)	31 (26-37)	26 (23-29)	27 (25–2
thnicity												
English, Welsh, Scottish, Northern Irish, or British	57 (89%)	54 (83%)	65 (92%)	60 (88%)	70 (96%)	71 (97%)	38 (100%)	39 (95%)	59 (92%)	64 (100%)	25 (86%)	25 (86%
White Irish	2 (3%)	2 (3%)	2 (3%)	0	1 (1%)	0	0	0	0	0	0	0
Any other White background	3 (5%)	2 (3%)	2 (3%)	3 (4%)	1 (1%)	1 (1%)	0	2 (5%)	1 (2%)	0	2 (7%)	3 (10%
White and Asian	0	1 (2%)	0	0	0	0	0	0	1 (2%)	0	0	0
Any other mixed or multiple ethnic background	0	3 (5%)	1 (1%)	2 (3%)	1 (1%)	1 (1%)	0	0	0	0	0	0
Indian	1 (2%)	3 (5%)	0	2 (3%)	0	0	0	0	0	0	1 (3%)	1 (3%)
Pakistani	1 (2%)	0	0	0	0	0	0	0	1 (2%)	0	0	0
Chinese	0	0	0	0	0	0	0	0	1 (2%)	0	0	0
Any other ethnic group	0	0	0	1 (1%)	0	0	0	0	1 (2%)	0	1 (3%)	0
Prefer not to give	0	0	1 (1%)	0	0	0	0	0	0	0	0	0
Occupation												
Employed—health- care worker	15 (23%)	18 (28%)	19 (27%)	21 (31%)	0	0	1 (3%)	0	3 (5%)	3 (5%)	5 (17%)	1(3%)
Employed—other	30 (47%)	34 (52%)	35 (49%)	33 (49%)	4 (5%)	6 (8%)	7 (18%)	4 (10%)	39 (61%)	43 (67%)	18 (62%)	22 (76%
Unemployed	4 (6%)	3 (5%)	3 (4%)	2 (3%)	0	0	1 (3%)	0	3 (5%)	3 (5%)	3 (10%)	2 (7%)
Student	2 (3%)	0	4 (6%)	3 (4%)	0	0	0	0	5 (8%)	0	2 (7%)	2 (7%)
Retired	13 (20%)	10 (15%)	10 (14%)	9 (13%)	69 (95%)	67 (92%)	29 (76%)	37 (90%)	14 (22%)	15 (23%)	1 (3%)	2 (7%)
Participant received influenza vaccination in winter 2020–21 programme	48 (75%)	48 (74%)	52 (73%)	55 (81%)	72 (99%)	70 (96%)	35 (92%)	40 (98%)	41 (64%)	52 (81%)	22 (76%)	13 (45%

Table: Participant demographics

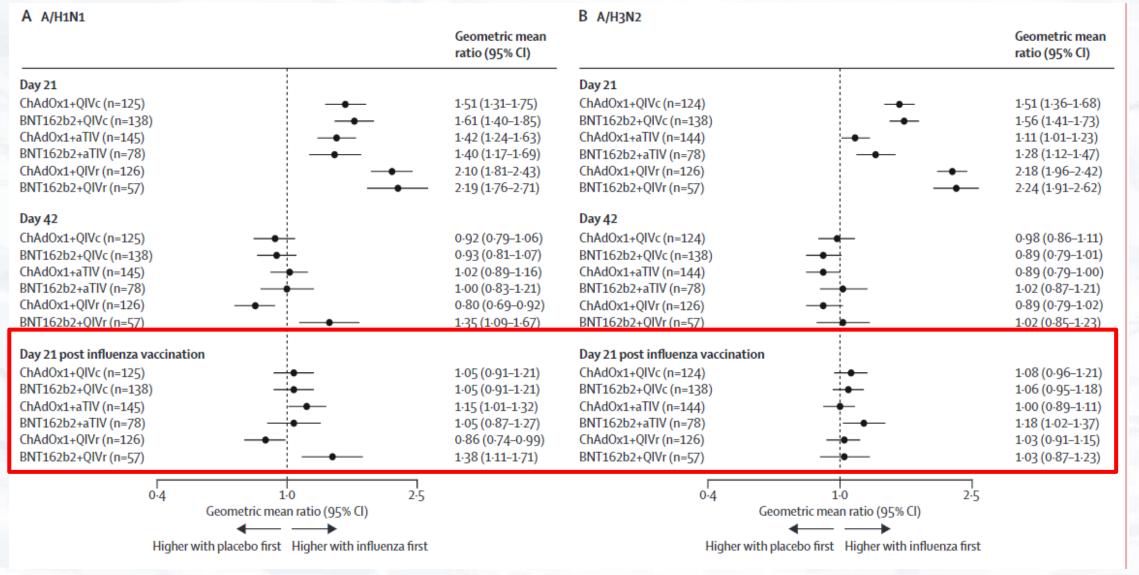
Primary Outcome-Systemic adverse reactions



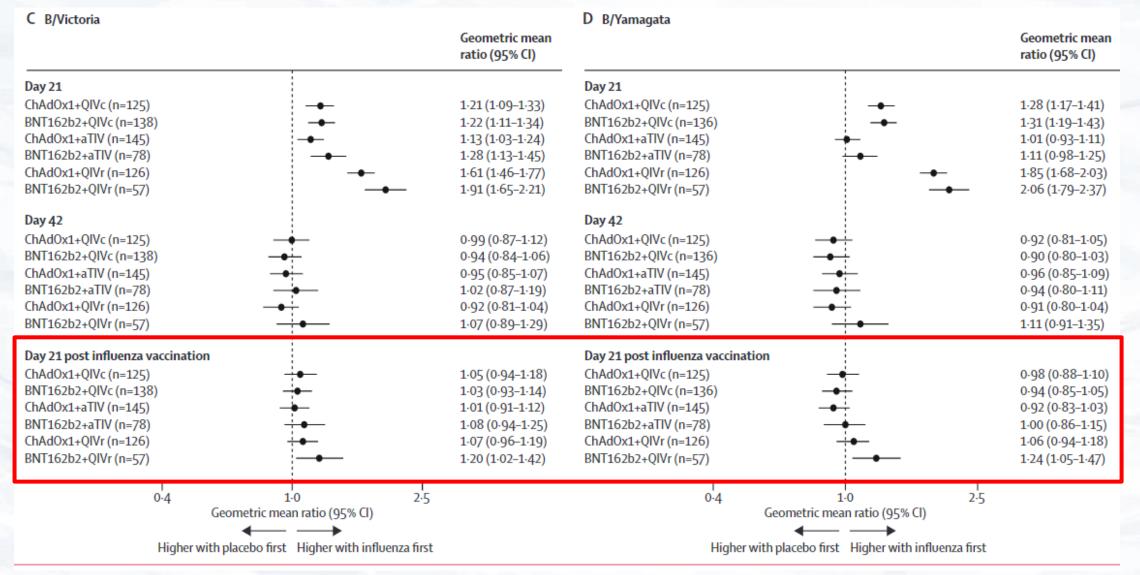
Secondary Outcome-Anti-spike immunoglobulin (Covid-19)



Secondary Outcomehaemagglutinin antibody inhibition (Influenza)



Secondary Outcomehaemagglutinin antibody inhibition (Influenza)



Conclusion

 Concomitant vaccination with ChAdOx1 or BNT162b2 plus an age-appropriate influenza vaccine raises no safety concerns and preserves antibody responses to both vaccines

limitation

- Not known whether these findings would apply to other vaccines or not
- Influenza vaccine cause more local reactions than placebo
- Two of the cohorts had lower recruitment than planned
- T-cell responses were not evaluated



Factor VIII Inhibitor Bypassing Activity (FEIBA) Reversal for Apixaban and Rivaroxaban in Patients With Acute Intracranial and Nonintracranial Hemorrhage

Annals of Pharmacotherapy 2021, Vol. 55(12) 1455–1466

Inclusion Criteria

- patients 18 to 89 years old
- ≥1 FEIBA doses in the hospital ED or inpatient setting
- Apixaban or rivaroxaban presumably within 48 hours of FEIBA

Exclusion Criteria

- had a thrombosis history
- prisoners, pregnant, outside the age range
- received FEIBA for non-FXa inhibitor reversal (hemophilia)
- had documented anticoagulant agent beyond 48 hours of presentation
- had FEIBA use preoperatively for emergent procedures not specifically indicated for active bleeding reversal

	Full Cohort (N = 104)	Apixaban (n = 62)	Rivaroxaban (n = 42)	P value	
Age, years (mean ± SD)	74.1 ± 9.9	74.9 ± 9.2	73.0 ± 10.9	0.3313	
Male	59 (56.7)	37 (59.7)	22 (52.4)	0.4612	Int
Weight, kg (mean ± 3D)	72.1 = 20.3	73.3 _ 27.3	70.1 = 23.2	0.3171	
Caucasian (non-Hispanic)	96 (92.3)	57 (91.9)	39 (92.9)	1.00005	
Past medical history	25 (22.7)	22 (27.1)	12 (22 ()		N
Heart failure	35 (33.7)	23 (37.1)	12 (28.6)	0.3666	
Hypertension	86 (82.7)	51 (82.3)	35 (83.3)	0.8869	
CAD	44 (42.3)	26 (41.9)	18 (42.9)	0.9256	
MI	14 (13.5)	9 (14.5)	5 (11.9)	0.7018	
COPD	25 (24.0)	15 (24.2)	10 (23.8)	0.9641	
Hyperlipidemia	72 (69.2)	42 (67.7)	30 (71.4)	0.6894	
Diabetes mellitus Ischemic stroke	44 (42.3)	26 (41.9)	18 (42.9)	0.9256	
	24 (23.1)	16 (25.8)	8 (19.0)	0.4221	
Hemorrhagic stroke CKD	11 (10.6)	9 (14.5)	2 (4.8)	0.1925	
Cirrhosis	31 (29.8)	22 (35.5)	9 (21.4)		
Peripheral arterial disease	1 (1.0) 11 (10.6)	1 (1.6)	0 (0.0)	1.0000 ^b 0.3447 ^b	Re
Apixaban	11 (10.6)	5 (8.1)	6 (14.3)	0.344/°	an
2.5 mg bid		7 (11.3)		INA	
5 mg bid		The state of the s			
Rivaroxaban		55 (88.7)		NA	
15 mg daily			6 (14.3)	INA	
20 mg daily			36 (85.7)		
Antiplatelet agents	34 (32.7)	23 (37.1)	11 (26.2)	0.2447	
Aspirin	22 (64.7)	15 (65.2)	7 (63.6)	0.2117	FE
Clopidogrel	2 (5.9)	1 (4.3)	1 (9.1)		F
Aspirin and clopidogrel	3 (8.8)	3 (13.0)	0 (0.0)		FE
Nonselective NSAID	5 (14.7)	3 (13.0)	2 (18.2)		
Celecoxib	2 (5.9)	1 (4.3)	1 (9.1)		Ble
Taracongarante marcación	()	()	. (/		F
Atrial fibrillation	94 (90.4)	59 (95.2)	35 (83.3)	0.0855 ^b	
VIE treatment	9 (8.7)	2 (3.2)	/ (16./)	0.0288	
VTE prophylaxis	5 (4.8)	3 (4.8)	2 (4.8)	1.00006	
Other indication ^c	2 (1.9)	1 (1.6)	1 (2.4)	1.0000b	
Admitting service				0.4627 ⁶	
Trauma	32 (30.8)	22 (35.5)	10 (23.8)		
Neurosurgery/Neurocritical care	35 (33.7)	18 (29.0)	17 (40.5)		
General surgery	4 (3.9)	3 (4.8)	1 (2.4)		
Medical intensive care	8 (7.7)	6 (9.7)	2 (4.8)		A
Internal medicine	21 (20.2)	10 (16.1)	11 (26.2)		
Other admitting service (cardiac surgery, vascular surgery, cardiology, or urology)	4 (3.9)	3 (4.8)	1 (2.4)		
Baseline serum creatinine, mg/dL (mean \pm SD)	1.2 ± 0.5	1.3 ± 0.5	1.0 ± 0.4	0.0133	
Baseline hemoglobin, g/dL (mean ± SD)	11.9 ± 2.8	12.0 ± 2.6	11.7 ± 3.0	0.5889	
Baseline Glasgow Coma Scale score				0.7042 ^b	
13-15	84 (80.8)	50 (80.6)	34 (81.0)		D
9-12	10 (9.6)	5 (8.1)	5 (11.9)		
≤8	10 (9.6)	7 (11.3)	3 (7.1)		_
Hemorrhage type				0.2643	
Intracranial hemorrhage	55 (52.9)	30 (48.4)	25 (59.5)		
Nonintracranial hemorrhage	49 (47.1)	32 (51.6)	17 (40.5)		

	Full Cohort ($N = 104$)	Apixaban (n = 62)	Rivaroxaban ($n = 42$)	P value
Intracranial hemorrhage types	n = 55	n = 30	n = 25	0.4906
Spontaneous	28 (50.9)	14 (46.7)	14 (56.0)	
Traumatic	27 (49.1)	16 (53.3)	11 (44.0)	
Non-intracranial hemorrhage types	n = 49	n = 32	n = 17	0.2643
Spontaneous bleeding event	28 (57.1)	17 (53.1)	11 (64.7)	
Gastrointestinal	20 (71.4)	11 (64.7)	9 (81.8)	
Genitourinary	I (3.6)	I (5.9)	0 (0.0)	
Retroperitoneal	3 (10.7)	2 (11.8)	I (9.1)	
Other	4 (14.3)	3 (17.7)	I (9.1)	
Traumatic bleeding event	21 (42.9)	15 (46.9)	6 (35.3)	
Fall	11 (52.4)	9 (60.0)	2 (33.3)	
Motor vehicle accident	9 (42.9)	5 (33.3)	4 (66.7)	
Traumatic foley catheter removal	I (4.8)	I (6.7)	0 (0.0)	
Relative time between FXa inhibitor dose and FEIBA, to extent charted	(10)	(-1.7)	(117)	0.4721
<12 Hours	18 (17.3)	9 (14.5)	9 (21.4)	
12-24 Hours	12 (11.5)	8 (12.9)	4 (9.5)	
≤24 Hours	2 (1.9)	1 (1.6)	1 (2.4)	
25-48 Hours	4 (3.9)	1 (1.6)	3 (7.1)	
Active use but time not stated	68 (65.4)	43 (69.4)	25 (59.5)	
EIBA dose, units (median [25th, 75th percentile])	4381 [3470, 4891]	4407 [3535, 4868]	4329 [3440, 4990]	0.7961
EIBA weight-based dose, U/kg (median [25th, 75th percentile])	49.3 [46.5, 51.2]	48.7 [45.5, 51.2]	50.0 [47.9, 51.4]	0.2241
Blood product recipients within 24 hours pre-FEIBA/post-FEIBA				
PRBC before	24 (23.1)	14 (22.6)	10 (23.8)	0.8840
PRBC after	25 (24.0)	13 (21.0)	12 (28.6)	0.3733
FFP after	5 (2.2)	2 (0.0)	1 (2.1)	0.1551
	5 (4.8)	1 (1.6)	4 (9.5)	
Cryoprecipitate before	0 (0)	0 (0)	0 (0)	NA
Cryoprecipitate after	2 (1.9)	1 (1.6)	1 (2.4)	1.0000
Platelets before	3 (2.9)	0 (0)	3 (7.1)	0.0630
Platelets after	7 (6.7)	3 (4.8)	4 (9.5)	0.4363
Additional product recipients	2 (1 2)			
Second FEIBA dose	2 (1.9)	1 (1.6)	1 (2.4)	1.0000
Kcentra	5 (4.8)	2 (3.2)	3 (7.1)	0.3911
NOVOSEVEN RT	0 (0)	0 (0)	0 (0)	NA
Profilnine	0 (0)	0 (0)	0 (0)	NA
DDAVP	8 (7.7)	4 (6.4)	4 (9.5)	0.7116
Tranexamic acid	4 (3.9)	3 (4.8)	I (2.4)	0.6459 ^b
Ouration of hospitalization, days (median [25th, 75th percentile])	4.7 [2.7, 8.6]	4.2 [2.8, 8.7]	4.8 [2.1, 8.6]	0.9235

Outcomes

Overall safety results: ICH + Non-ICH Cohorts				
Overall 30-day mortality	13 (12.5)	8 (12.9)	5 (11.9)	0.8799
Overall in-hospital mortality	8 (7.7)	4 (6.4)	4 (9.5)	NA
Overall discharge to 30-day mortality	5 (4.8)	4 (6.4)	1 (2.4)	NA
Overall TEE	8 (7.7)	3 (4.8)	5 (11.9)	0.2637 ^b
Overall in-hospital TEE	3 (2.9)	1 (1.6)	2 (4.8)	NA
Overall discharge to 30-day TEE	5 (4.8)	2 (3.2)	3 (7.1)	NA
ICH Cohort	n = 55	n = 30	n = 25	
Overall 30-day mortality	11 (20.0)	6 (20.0)	5 (20.0)	1.0000b
In-hospital mortality	6 (10.9)	2 (6.7)	4 (16.0)	NA
Time from FEIBA to in-hospital death, days (median	n = 6	n = 2	n = 4	NA
[25th, 75th percentile])	3.3 [1.7, 3.9]	3.4 [3.0, 3.9]	2.7 [1.6, 6.6]	
Discharge to 30-day mortality	5 (9.1)	4 (13.3)	1 (4.0)	NA
Overall 30-day TEE	4 (7.3)	1 (3.3)	3 (12.0)	0.3198 ^b
In-hospital TEE	1 (1.8)	0 (0.0)	1 (4.0)	NA
Ischemic stroke	1 (100.0)	0 (0.0)	1 (100.0)	
Discharge to 30-day TEE	3 (5.4)	1 (3.3)	2 (8.0)	NA
Ischemic stroke	1 (33.3)	1 (100.0)	0 (0.0)	
Cardiac thrombus	1 (33.3)	0 (0.0)	1 (50.0)	
Pulmonary embolism	1 (33.3)	0 (0.0)	1 (50.0)	
Hemostasis	(-1)	(-17)	(5.1.7)	0.8866 ^b
Excellent	49 (89.1)	27 (90.0)	22 (88.0)	
Good	4 (7.5)	2 (6.7)	2 (8.0)	
Poor/None	1 (1.8)	0 (0)	1 (4.0)	
Unknown	1 (1.8)	1 (3.3)	0 (0.0)	
Hemostasis: effective (excellent or good)	53 (96.4)	29 (96.7)	24 (96.0)	1.0000b
Hemostasis – Effective			(/	0.5024
Without antiplatelet therapy	35 (66.0)	18 (62.1)	17 (70.8)	A00071.70071.01
With ≥ I antiplatelet agents	18 (34.0)	11 (37.9)	7 (29.2)	
0.000000000000000000000000000000000000	20070 3 .030039 3 .0		0.000	
Non-ICH Conort	n = 49	n = 32	n = 1/	
Overall 30-day mortality	2 (4.1)	2 (6.2)	0 (0.0)	0.5374b
In-hospital mortality	2 (4.1)	2 (6.2)	0 (0.0)	NA
Time from FEIBA to in-hospital	n = 2	n = 2	n = 0	NA
Mortality, days (median [25th, 75th percentile])	3.3 [0.7, 5.8]	3.3 [0.7, 5.8]		
Discharge to 30-day mortality	0 (0.0)	0 (0.0)	0 (0.0)	NA
Overall 30-day TEE	4 (8.2)	2 (6.2)	2 (11.8)	0.6020 ^b
In-hospital TEE	2 (4.1)	1 (3.1)	1 (5.9)	NA
Ischemic stroke	1 (50.0)	1 (100.0)	0 (0.0)	
Systemic embolism	1 (50.0)	0 (0.0)	1 (100.0)	
Discharge to 30-day TEE	2 (4.1)	1 (3.1)	1 (5.9)	NA
Peripheral arterial claudication	1 (50.0)	0 (0.0)	1 (100.0)	
Pulmonary embolism	1 (50.0)	1 (100.0)	0 (0.0)	
Hemostasis		850000000		
Excellent	26 (53.1)	18 (56.3)	8 (47.1)	0.8504b
Good	14 (28.6)	8 (25.0)	6 (35.3)	
Poor/None	9 (18.4)	6 (18.8)	3 (17.6)	
Hemostasis: effective (excellent or good)	40 (81.6)	26 (81.3)	14 (82.4)	1.0000°
Hemostasis – Effective	(55)	(3)	()	0.3920
Without antiplatelet therapy	25 (62.5)	15 (57.7)	10 (71.4)	
With ≥ Lantiplatelet agents	15 (37.5)	11 (42.3)	4 (28.6)	

Conclusion

 The combined ICH and non-ICH overall rates of effective hemostasis, TEE, and mortality were comparable to preexisting studies of FEIBA for factor Xa inhibitor reversal.

limitation

- Retrospective design
- No propensity score matching was performed between apixaban and rivaroxaban users
- No initial National Institutes of Health Stroke Scale (NIHSS)
 score, initial ICH score, or time from acute bleeding event onset



Unguided de-escalation from ticagrelor to clopidogrel in stabilised patients with acute myocardial infarction undergoing percutaneous coronary intervention (TALOS-AMI): an investigator-initiated, open-label, multicentre, non-inferiority, randomised trial

Lancet 2021; 398: 1305-16

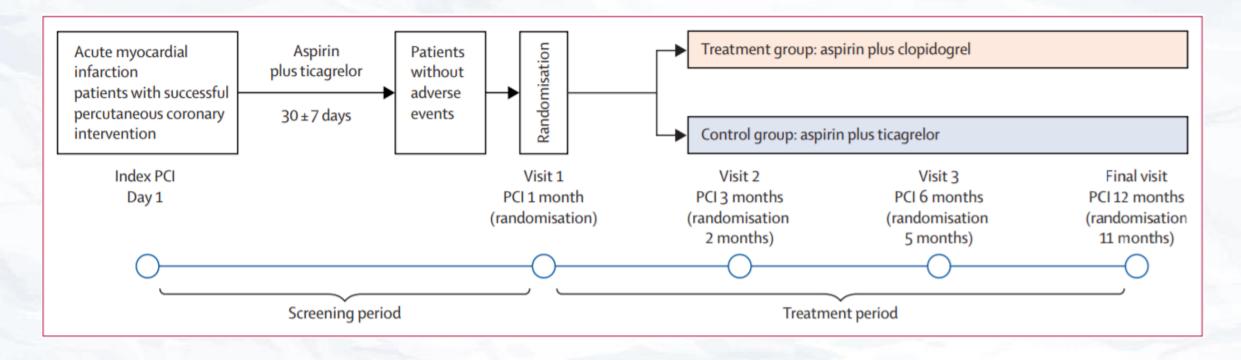
Inclusion Criteria

- Biomarker-positive acute myocardial infarction who underwent successful PCI
- Tolerated aspirin and ticagrelor treatment

Exclusion Criteria

- Cardiogenic shock
- Active bleeding of any major organs, bleeding diathesis or coagulopathy within 2 months
- Intracranial bleeding, intracranial aneurysm, arteriovenous malformation, or neoplasm

Randomised



Treatment group	Control group
Aspirin 100mg QD+	Aspirin 100mg QD+
Clopidogrel 75mg QD	Ticagrelor 90mg BID
(n=1349)	(n=1348)

Baseline characteristics

	De-escalation group (n=1349)	Active control group (n=1348)
Age, years	60-1 (11-3)	59-9 (11-4)
≥75	157 (11-6%)	164 (12-2%)
Female sex	217 (16-1%)	237 (17-6%)
Male sex	1132 (83.9%)	1111 (82-4%)
Body-mass index*, kg/m²	24-6 (3-1)	24.5 (3.1)
Cardiovascular risk factors		
Hypertension	655 (48-6%)	663 (49-2%)
Diabetes	362 (26-8%)	369 (27-4%)
Diabetes treated with insulin	28 (2·1%)	28 (2-1%)
Dyslipidaemia	563 (41-7%)	556 (41-2%)
Current smoker	670 (49-7%)	674 (50-0%)
Impaired renal function†	160 (12-1%)	145 (10-9%)

Past medical history		
Previous percutaneous coronary intervention	61 (4.5%)	60 (4-5%)
Previous coronary artery bypass graft	3 (0-2%)	1 (0-1%)
Previous cerebrovascular accident	53 (3.9%)	50 (3.7%)
Clinical presentation		
STEMI	734 (54-4%)	721 (53.5%)
NSTEMI	615 (45-6%)	627 (46-5%)
Left ventricular ejection fraction <40%	103/1325 (7-8%)	93/1304 (7·1%)

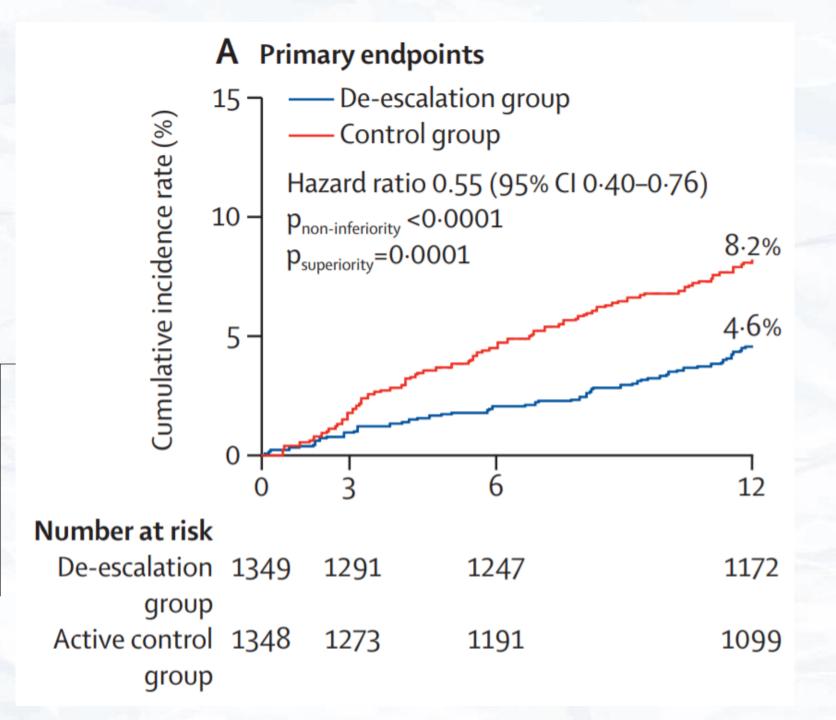
Data are n (%) or mean SD. NSTEMI=non-ST-segment elevation myocardial infarction. STEMI=ST-segment elevation myocardial infarction. *The body-mass index is the weight in kilograms divided by the square of the height in metres. †Impaired renal function was defined as an estimated glomerular filtration rate of less than 60 mL/min per 1.73 m³ of body-surface area at presentation.

Primary Outcomes

De-escalation group: 4.6%

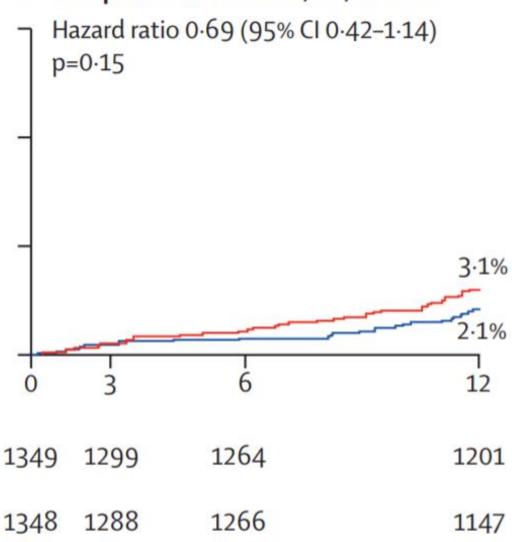
Active control group: 8.2%

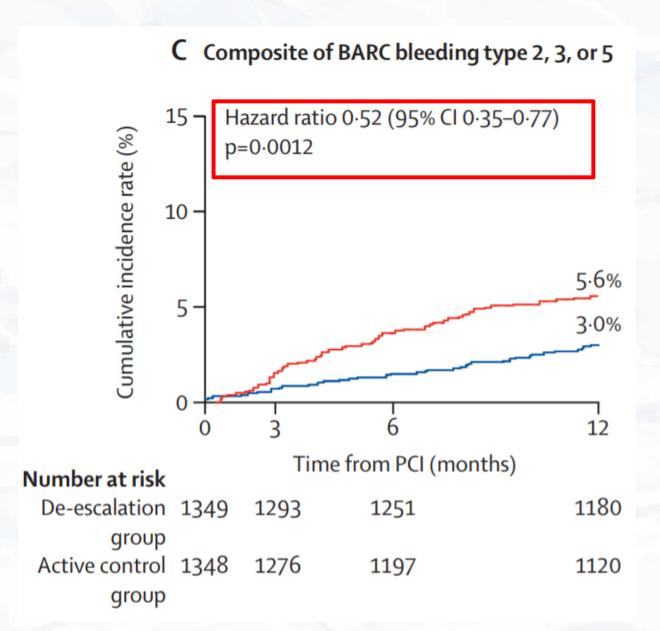
HR 0.55



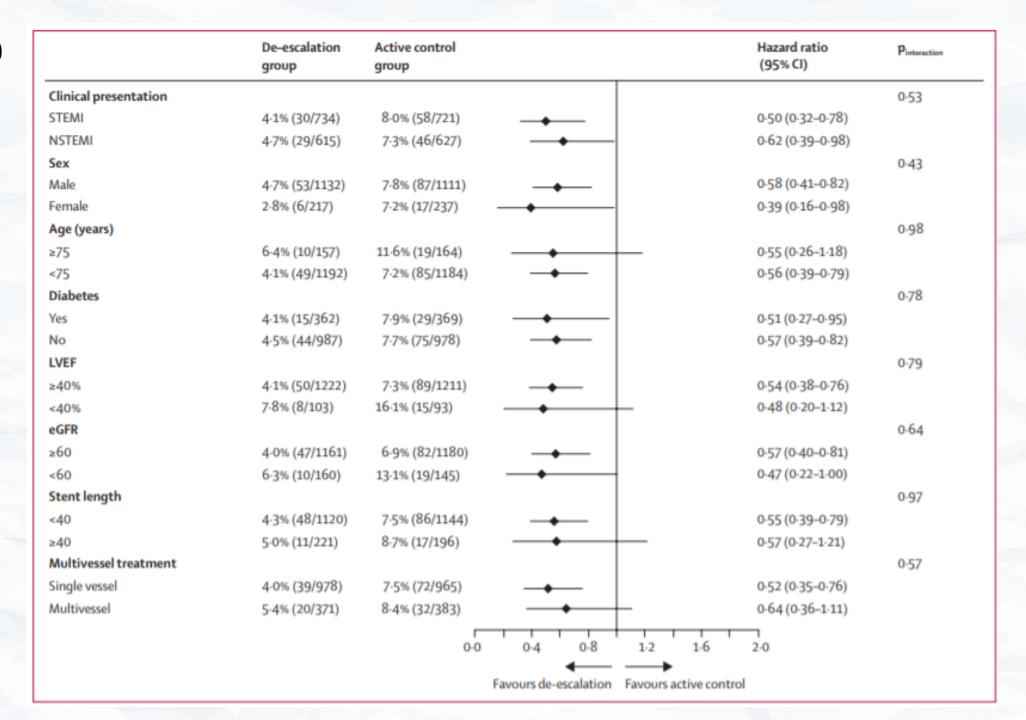
Outcomes

B Composite of CV death, MI, or stroke





Subgroup Anaiysis



Conclusion

 Switching from ticagrelor to clopidogrel reduced the risk of net clinical events up to 12 months, mainly by reducing the bleeding events

limitation

- Open-label
- The non-inferiority margin is wide
- Did not do PFT or genotyping during the study conduct.



Desloratadine Exposure and Incidence of Seizure: A Nordic Postauthorization Safety Study Using a New-User Cohort Study Design, 2001–2015

Drug Safety (2021) 44:1231–1242

Inclusion Criteria

- Denmark, Finland, Norway and Sweden
- All individuals with a first-ever dispensing of desloratadine in the study period (2001–2015)

Exclusion Criteria

- Not reside in Denmark, Finland, Norway, or Sweden at the date of first prescription
- Seizure, epilepsy, malignant brain tumor, or head trauma, or had redeemed a prescription of antiepileptic medicine before study entry

Baseline characteristics

	Total	Denmark	Finland	Norway	Sweden	
	N = 1,807,347	N = 246,003	N = 533,646	N = 250,910	N = 776,788	
Gender						
Male	890,170 (49.3)	111,376 (45.3)	301,355 (56.5)	115,731 (46.1)	361,708 (46.6)	
Female	917,177 (50.7)	134,627 (54.7)	232,291 (43.5)	135,179 (53.9)	415,080 (53.4)	
Age	, , , , , , , , ,	32 1,021 (2 117)		200,275 (0015)	110,000 (0011)	
Mean (SD)	29.5 (22.3)	29.5 (22.4)	28.6 (22.2)	29.6 (20.6)	30.0 (22.8)	7
Age categories (years)						=
0–5 ^a	366,149 (20.3)	49,187 (20.0)	132,258 (24.8)	35,212 (14.0)	149,492 (19.2)	
0-9	119,674 (6.6)	14,369 (5.9)	26,300 (5.0)	20,016 (8.0)	38,389 (7.3)	_
10–14	130,576 (7.2)	18,588 (7.6)	32,611 (6.1)	20,359 (8.1)	59,018 (7.6)	
15–19	133,561 (7.4)	19,077 (7.8)	33,371 (6.3)	21,893 (8.7)	59,220 (7.6)	
20–24	116,093 (6.4)	16,057 (6.5)	31,638 (5.9)	20,991 (8.4)	47,407 (6.1)	
25–29	118,316 (6.5)	16,066 (6.5)	35,855 (6.7)	19,643 (7.8)	46,752 (6.0)	
30–34	118,932 (6.6)	17,289 (7.0)	35,008 (6.6)	18,859 (7.5)	47,776 (6.2)	
35–39	120,319 (6.7)	17,580 (7.1)	34,959 (6.6)	18,381 (7.3)	49,399 (6.4)	
40-44	113,232 (6.3)	15,519 (6.3)	33,480 (6.3)	16,888 (6.7)	47,345 (6.1)	
45-49	100,776 (5.6)	13,148 (5.3)	31,243 (5.9)	14,123 (5.6)	42,262 (5.4)	
50-54	87,922 (4.9)	10,645 (4.3)	28,959 (5.4)	11,349 (4.5)	36,969 (4.8)	
55–59	79,044 (4.4)	9815 (4.0)	26,176 (4.9)	9433 (3.8)	33,620 (4.3)	
60-64	65,619 (3.6)	8450 (3.4)	18,177 (3.4)	7965 (3.2)	31,027 (4.0)	
65-69	50,325 (2.8)	6981 (2.8)	12,106 (2.3)	6473 (2.6)	24,765 (3.2)	
70–74	34,860 (1.9)	4979 (2.0)	8629 (1.6)	3871 (1.5)	17,381 (2.2)	
75–79	24,518 (1.4)	3586 (1.5)	6379 (1.2)	2551 (1.0)	12,002 (1.5)	
≥ 80	27,431 (1.5)	4467 (1.8)	6297 (1.2)	2903 (1.2)	13,764 (1.8)	
Calendar year						
2001-2005	170,593 (9.4)	68,254 (27.7)	102,339 (19.2)	_	_	
2006-2010	682,088 (37.7)	81,091 (33.0)	228,398 (42.8)	19,083 (7.6)	353,516 (45.5)	
2011-2015	954,666 (52.8)	96,658 (39.3)	202,909 (38.0)	231,827 (92.4)	423,272 (54.5)	
Season						
Winter	269,630 (14.9)	35,432 (14,4)	71.391 (13.4)	28,311 (11,3)	113,099 (14,6)	
Spring	739,607 (40.9)	79,288 (32.2)	237,561 (44.5)	101,438 (40.4)	321,320 (41.4)	
Summer	549,877 (30.4)	9,0937 (37.0)	151,408 (28.4)	87,627 (34.9)	219,905 (28.3)	
Autumn	248,233 (13.7)	40,346 (16.4)	73,286 (13.7)	33,534 (13.4)	122,464 (15.8)	
Diagnoses and treatments during a 5-year period prior						
to date of first desloratadine prescription redemption ^b						
Asthma	258,549 (14.3)	35,336 (14.4)	69,274 (13.0)	35,454 (14.1)	118,485 (15.3)	
Severe rhinitis	10,096 (0.6)	4588 (1.9)	243 (0.05)	3138 (1.3)	2127 (0.3)	40
Chronic urticaria	37,999 (2.1)	2774 (1.1)	6093 (1.1)	1707 (0.7)	27,425 (3.5)	

Outcomes

DL exposure	Number (N)	Follow-up time (PY)	Unadjusted	Unadjusted					
			IR per 100,000 PY	IRR	95% CI	IR per 100,000 PY	IRR	95% CI	
Yes	745	1,166,122	63.9	1.61	(1.49–1.75)	31.6	1.46	(1.34–1.59)	
No	2,627	6,634,828	39.6	1	Ref.	21.7	1	Ref.	
Stratified by country									
Denmark									
Yes	129	133,806	96.4	2.38	(1.96-2.89)	42.3	1.75	(1.44-2.14)	
No	503	1,242,345	40.5	1	Ref.	24.2	1	Ref.	
Finland									
Yes	151	325,951	46.3	1.67	(1.40-1.98)	34.8	1.44	(1.20-1.73)	
No	711	2,555,545	27.8	1	Ref.	24.1	1	Ref.	
Norway									
Yes	57	173,685	32.8	1.85	(1.29-2.65)	13.0	1.98	(1.36-2.89)	
No	61	343,630	17.8	1	Ref.	6.5	1	Ref.	
Sweden									
Yes	408	532,679	76.6	1.41	(1.26-1.58)	47.6	1.34	(1.19-1.50)	
No	1,352	2,493,308	54.2	1	Ref.	35.7	1	Ref.	
Stratified by age									
0–5 years									
Yes	436	122,811	355.0	1.89	(1.69-2.11)	270.8	1.85	(1.65-2.08)	
No	1,012	538,445	187.9	1	Ref.	146.5	1	Ref.	
6–19 years									
Yes	143	270,274	52.9	1.36	(1.14-1.63)	36.3	1.42	(1.17-1.71)	
No	655	1,685,810	38.9	1	Ref.	25.6	1	Ref.	
≥ 20 years									
Yes	166	773,038	21.5	0.99	(0.84-1.16)	11.9	1.01	(0.85-1.19)	
No	960	4,410,573	21.8	1	Ref.	11.8	1	Ref.	

Outcomes

DL exposure	Number (N)	Follow-up time (PY)	Unadjusted			Adjusted		
			IR per 100,000 PY	IRR	95% CI	IR per 100,000 PY	IRR	95% CI
Non-febrile seiz	ures in children ag	ged 0–5 years ^a				1/		
Yes	110	110,315	99.7	1.59	(1.28-1.97)	117.8	1.46	(1.17 - 1.83)
No	315	501,771	62.8	1	Ref.	80.7	1	Ref.
Febrile seizures	in children aged (0–5 years ^a						
Yes	307	109,820	279.5	1.99	(1.74-2.28)	319.9	2.19	(1.90-2.51)
No	700	499,182	140.2	1	Ref.	145.5	1	Ref.
Restricting stud	y period to years b	pefore OTCb						
Yes	503	732,684	68.7	1.73	(1.57-1.92)	42.0	1.47	(1.32-1.63)
No	1539	3,886,038	39.6	1	Ref.	28.6	1	Ref.
Restricting to in	dividuals without	other antihistamine prescri	iption redemption	ns before	inclusion			
Yes	595	654,147	91.0	1.84	(1.68-2.01)	42.8	1.51	(1.37-1.65)
No	2180	4,404,922	49.5	1	Ref.	28.4	1	Ref.
Alternative defi	nition of DL expos	ure						
Following pre	scription redempti	on number ^b						
1	411	366,722	112.1	2.83	(2.55-3.14)	39.6	1.79	(1.60-1.99)
2	99	180,073	55.0	1.39	(1.14-1.70)	27.9	1.26	(1.03-1.54)
≥ 3	235	619,327	37.9	0.96	(0.84-1.10)	26.2	1.18	(1.03-1.35)
No	2627	6,634,828	39.6	1	Ref.	22.2	1	Ref.
Weeks after pr	rescription redemp	otion ^b						
0-4	298	399,940	74.5	1.88	(1.67-2.12)	31.2	1.57	(1.39-1.77)
5-8	224	353,666	63.3	1.60	(1.40-1.83)	26.9	1.35	(1.17-1.55)
9-16	448	595,249	75.3	1.90	(1.72-2.10)	31.2	1.57	(1.41-1.74)
17-26	402	597,738	67.3	1.70	(1.53-1.89)	25.6	1.28	(1.15-1.43
≥ 27	2627	6,634,828	39.6	1	Ref	19.9	1	Ref

Conclusion

- The association between desloratadine exposure and incident seizure was seen in all countries, most pronounced in children aged 0–5 years.
- No difference in incidence rate of seizure was observed in adults between desloratadine exposed and unexposed.

limitation

- Lack of information on actual use of the redeemed desloratadine
- Not all drugs that could increase the risk of seizure were taken into account
- Risk of misclassification of the comorbidities included as potential confounders



ADSTRACT

THE LANCET Tirzepatide versus insulin glargine in type 2 diabetes and increased cardiovascular risk (SURPASS-4): a randomised, open-label, parallel-group,

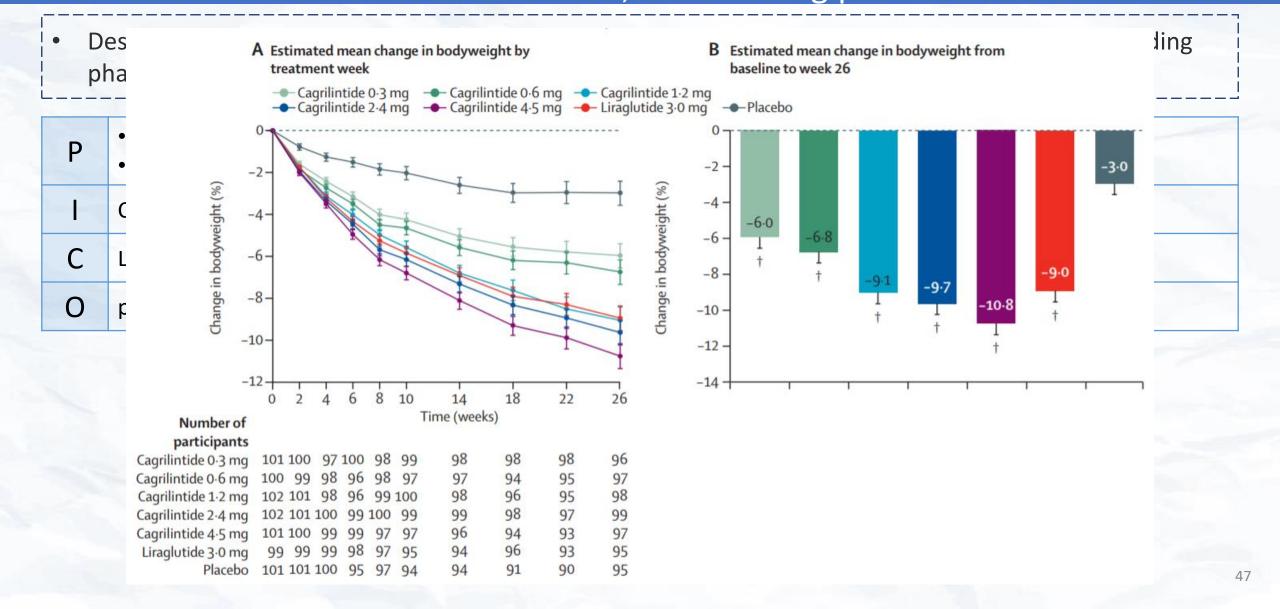
	Tirzepatide 5 mg (n=326)	Tirzepatide 10 mg (n=321)	Tirzepatide 15 mg (n=334)	Insulin glargine (n=978)
HbA _{se} %				
Baseline	8-52 (0-049)	8-60 (0-049)	8-52 (0-048)	8-51 (0-028)
At week 52	6-29 (0-054)	6-09 (0-054)	5.95 (0.054)	7-09 (0-031)
Change from baseline at week 52*†	-2-24 (0-053)	-2-43 (0-053)	-2.58 (0-053)	-1-44 (0-030)
ETD vs insulin glargine	-0.80 (-0.92 to -0.68), p<0.0001‡	-0.99 (-1.11 to -0.87), p<0.0001‡	-1-14 (-1-26 to -1-02), p<0-0001‡	(2)
HbA _{1,r} mmol/mol				
Baseline	69-6 (0-54)	70-5 (0-54)	69-6 (0-53)	69-5 (0-31)
At week 52	45-3 (0-59)	43-1 (0-59)	41-5 (0-59)	54-0 (0-34)
Change from baseline at week 52*†	-24-5 (0-59)	-26-6 (0-59)	-28-2 (0-59)	-15-7 (0-34)
ETD vs insulin glargine	-8-8 (-10-1 to -7-4), p<0-0001‡	-10-9 (-12-3 to -9-6), p<0-0001‡	-12·5 (-13·8 to -11·2), p<0·0001‡	
Bodyweight, kg				
Baseline	90-3 (1-03)	90-7 (1-04)	90-0 (1-02)	90-3 (0-60)
At week 52	83-4 (0-29)	81-1 (0-29)	78-9 (0-29)	92-4 (0-17)
Change from baseline at week 52†	-7-1 (0-34)	-9-5 (0-34)	-11-7 (0-33)	1-9 (0-19)
ETD vs insulin glargine	-9-0 (-9-8 to -8-3), p<0-0001	-11-4 (-12-1 to -10-6), p<0-0001	-13·5 (-14·3 to -12·8), p<0·0001	25
Participants achieving HbA, targets at w	eek 52			
<7-0% (<53 mmol/mol)†	264 (81%)	283 (88%)	303 (91%)	496 (51%)
OR vs insulin glargine	4·78 (3·47 to 6·58), p<0-0001	9-23 (6-31 to 13-49), p<0-0001	11-87 (7-88 to 17-89), p<0-0001	*
s6-5% (s48 mmol/mol)	215 (66%)	244 (76%)	271 (81%)	310 (32%)
OR vs insulin glargine	4-86 (3-66 to 6-45), p<0-0001	8-93 (6-53 to 12-21), p<0-0001	11-84 (8-52 to 16-45), p<0-0001	
<5.7% (<39 mmol/mol)	75 (23%)	105 (33%)	144 (43%)	33 (3%)
OR vs insulin glargine	9-57 (6-16 to 14-86), p<0-0001	17:11 (11:12 to 26:35), p<0:0001	26-53 (17-35 to 40-56), p<0-0001	.96

THE LANCET TITZEPATION VETSUS INSULIN glargine in type 2 diabetes and increased cardiovascular risk (SURPASS-4): a randomised, open-label, parallel-group, multicentre, phase 3 trial Lancet 2021; 398: 1811-24

	Tirzepatide 5 mg (n=329)	Tirzepatide 10 mg (n=328)	Tirzepatide 15 mg (n=338)	All tirzepatide (n=995)	Insulin glargine (n=1000)	Hazard ratio (95% CI)
MACE-4	19 (6%)	17 (5%)	11 (3%)	47 (5%), 2·97	62 (6%), 3.99	0.74 (0.51–1.08)*
Cardiovascular death	10 (3%)	1 (<1%)	5 (2%)	16 (2%), 1.01	21 (2%), 1·35	
Myocardial infarction	7 (2%)	9 (3%)	3 (<1%)	19 (2%), 1.20	26 (3%), 1.67	
Hospitalisation for unstable angina	0	2 (<1%)	2 (<1%)	4 (<1%), 0.25	8 (<1%), 0.51	
Stroke	5 (2%)	5 (2%)	1 (<1%)	11 (1%), 0.70	13 (1%), 0.84	
ther MACE						
Coronary interventions†	10 (3%)	11 (3%)	8 (2%)	29 (3%), 1.83	37 (4%), 2.38	
Transient ischaemic attack	0	2 (<1%)	1 (<1%)	3 (<1%), 0.19	0	
Hospitalisation for heart failure	1 (<1%)	1 (<1%)	2 (<1%)	4 (<1%), 0.25	6 (<1%), 0.39	
)eath	15 (5%)	2 (<1%)	8 (2%)	25 (3%), 1.58	35 (4%), 2.25	0.70 (0.42-1.17)
Cardiovascular	4 (1%)	0	2 (<1%)	6 (<1%), 0.38	9 (<1%), 0.58	
Undetermined	6 (2%)	1 (<1%)	3 (<1%)	10 (1%), 0.63	12 (1%), 0.77	
Non-cardiovascular	5 (2%)	1(<1%)	3 (<1%)	9 (<1%), 0.57	14 (1%), 0.90	

THE LANCET

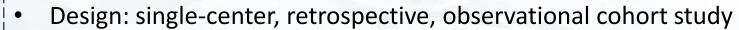
Once-weekly cagrilintide for weight management in people with overweight and obesity: a multicentre, randomised, double-blind, placebocontrolled and active-controlled, dose-finding phase 2 trial Lancet 2021; 398: 2160-72



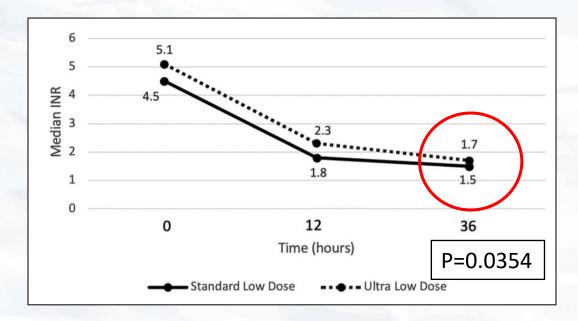


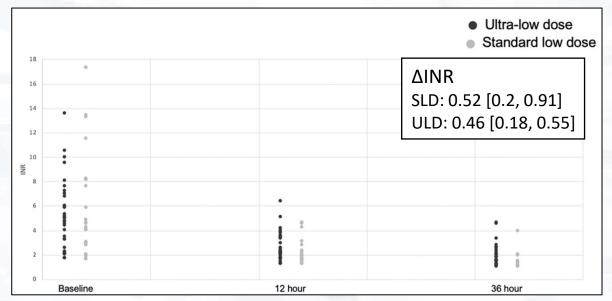
INR Response to Low-Dose Vitamin K in Warfarin Patients

Annals of Pharmacotherapy 2021, Vol. 55(12) 1455–1466



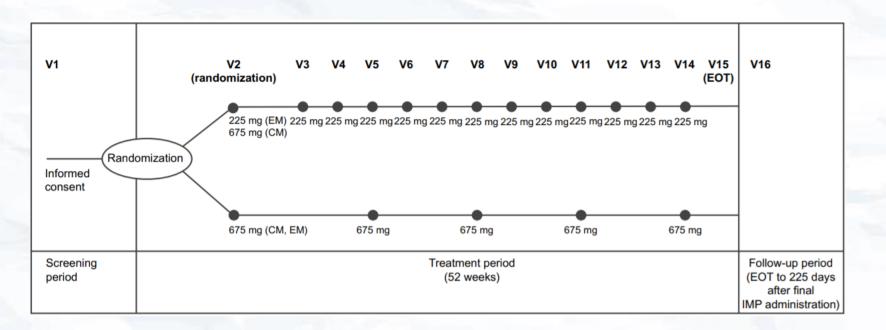
Р	P • ≥ 18 y/o, on warfarin therapy, and received IV vitamin K					
1	Vitamin K IV 0.25-0.5 mg (ultra low-dose [ULD])					
С	Vitamin K IV 1-2 mg (standard low dose [SLD])					
0	ΔINR at 36 hours					





Long-Term Safety and Tolerability of Fremanezumab for Migraine Preventive Treatment in Japanese Outpatients: A Multicenter, Randomized, Open-Label Study

- Design: 52-week, multicenter, randomized, open-label, parallel-group study
- P History of migraine or clinical judgment suggests a migraine diagnosis for ≥ 12 months
 I Fremanezumab 225mg QM
 C Fremanezumab 675 mg Q3M
 O Adverse events/monthly migraine days and headache days of at least moderate severity



TEAE treatment-emergent adverse event

Long-Term Safety and Tolerability of Fremanezumab for Migraine Preventive Treatment in Japanese Outpatients: A Multicenter, Randomized, Open-Label Study

Characteristics, n (%)	Fremanezumab					
	Monthly $(n = 25)$	Quarterly $(n = 25)$	Total $(n = 50)$			
Patients with at least one TEAE	23 (92.0)	22 (88.0)	45 (90.0)			
Patients with at least one TEAE related to the trial regimen	11 (44 0)	6 (24 0)	17 (34.0)			
Patients with at least one serious TEAE	0	2 (8.0)	2 (4.0)			
Patients with any TEAE leading to discontinuation of the trial	0	2 (8.0)	2 (4.0)			
Death	0	0	0			
Patients with TEAE reported in $\geq 5\%$ of patients in any group						
Injection-site reactions						
Erythema	7 (28.0)	5 (20.0)	12 (24.0)			
Induration	3 (12.0)	2 (8.0)	5 (10.0)			
Pain	1 (4.0)	3 (12.0)	4 (8.0)			
Pruritus	2 (8.0)	1 (4.0)	3 (6.0)			
Infections and infestations						
Gastroenteritis	3 (12.0)	1 (4.0)	4 (8.0)			
Influenza	1 (4.0)	2 (8.0)	3 (6.0)			
Nasopharyngitis	18 (72.0)	14 (56.0)	32 (64.0)			
Oral herpes	1 (4.0)	2 (8.0)	3 (6.0)			
Back pain	1 (4.0)	2 (8.0)	3 (6.0)			
Dysmenorrhea	2 (8.0)	1 (4.0)	3 (6.0)			
Cough	1 (4.0)	2 (8.0)	3 (6.0)			

Risk of Pregnancy Termination and Congenital Anomalies After Domperidone Exposure: A Study in the EFEMERIS Database

Drug Safety (2021) 44:787-796

		Exposed newborns ($N = 12.717$)	Unexposed newborns ($N = 115.060$)	<i>P</i> -value	
•		13,717) n (%)	115,969)		2017
l Ex	Sex, male	N = 13,691	N = 115,802		
C Ui	າເ	6816 (49.8)	59,435 (51.3)	0.001	
J	Prematurity	899 (6.6)	7405 (6.4)	0.44	
) Th	Extreme < 28 WA	26 (2.9)	186 (2.5)		
	Major (28–32 WA)	74 (8.2)	698 (9.4)		
Outcome	Moderate to late (33–37 WA)	799 (88.9)	6521 (88.1)		ie adjusted
	Low birth weight (< 2500 g)	N = 12,732	N = 106,381]
		806 (6.3)	6564 (6.2)	0.48	01
erminati	o Small for gestational age	N = 12,219	N = 102,647		-01
124,161)	(weight < mean – (2*SD) considering gestational age and sex)	144 (1.2)	1403 (1.4)	0.09	

ГНЕ	LANCE			Mirta (n=10	zapine group 02)	Place (n=10	bo group ()2)	Mean difference (95% CI)	Adjusted mean difference (95% CI)*	p value	tia
		(SYI		n	Mean (SD)	n	Mean (SD)	-			blled trial
			12-week primary outcome)21; 398: 1487–97
			Agitation: CMAI	79	61-4 (22-6)	87	60-8 (21-8)	0-59 (-6-22 to 7-40)	-1·74 (-7·17 to 3·69)*; -0·93 (-6·42 to 4·56)†	0-530; 0-739	
	• 0	esign: m	6-week secondary outcomes								
			Agitation: CMAI	84	61-4 (23-5)	88	60-0 (19-9)	1-39 (-5-15 to 7-93)	-0.55 (-6.18 to 5.08)	0.848	
	Р	Alzheim	Cognition: standardised MMSE	33	15.5 (7.1)	31	16-2 (7-2)	-0-68 (-4-25 to 2-89)	-0·14 (-1·17 to 1·45)	0.836	45 or more
			Quality of life: DEMQOL	32	95-1 (10-2)	32	96-8 (8-4)	-1.69 (-6.38 to 3.00)	1-12 (-2-74 to 4-97)	0.570	
		Mirtaza	Quality of life: DEMQOL-proxy	79	96-6 (14-7)	86	94-6 (16-2)	2-03 (-2-74 to 6-79)	0-80 (-3-18 to 4-77)	0-694	
			Quality of life: EQ-5D, proxy report	82	0.48 (0.33)	87	0.56 (0.30)	-0.08 (-0.17 to 0.02)	-0-07 (-0-13 to 0-00)	0.061	
	С	Placebo	by carer								
	C		Neuropsychiatric symptoms: NPI total score	84	27-1 (20-0)	88	24-8 (20-0)	2·29 (-3·73 to 8·31)	2·03 (-2·89 to 6·95)	0.419	
	0	CMAI sc		84	4-0 (3-6)	88	4-2 (3-5)	-0-20 (-1-28 to 0-87)	-0-34 (-1-30 to 0-62)	0.490	
			Neuropsychiatric symptoms: NPI depression, anxiety, and irritability subscore	84	7-9 (7-7)	88	7-2 (8-2)	0.68 (-1.72 to 3.07)	0-70 (-1-24 to 2-63)	0-482	
			12-week secondary outcomes								
			Cognition: standardised MMSE	23	18-0 (6-0)	27	15-6 (7-5)	2-44 (-1-48 to 6-37)	1-45 (-0-20 to 3-10)	0.084	
			Quality of life: DEMQOL	24	94-3 (7-1)	24	97-1 (8-4)	-2.83 (-7.35 to 1.68)	-1·36 (-5·82 to 3·10)	0.549	
			Quality of life: DEMQOL-proxy	71	98-4 (14-5)	82	97-5 (12-4)	0-93 (-3-37 to 5-23)	0·44 (-3·09 to 3·96)	0.809	
			Quality of life: EQ-5D, proxy report by carer	77	0-46 (0-35)	84	0.50 (0.33)	-0-04 (-0-14 to 0-07)	-0-01 (-0-08 to 0-07)	0-822	
			Neuropsychiatric symptoms: NPI total score	75	23.9 (17.8)	84	25.7 (19.6)	-1-80 (-7-69 to 4-09)	-2·02 (-6·67 to 2·62)	0-393	
			Neuropsychiatric symptoms: NPI agitation and aggression subscore	76	4-1 (3-4)	84	4.5 (3.6)	-0-40 (-1-49 to 0-70)	-0-52 (-1-52 to 0-47)	0.305	
			Neuropsychiatric symptoms: NPI depression, anxiety, and irritability subscore	75	6-9 (6-7)	84	7-3 (8-0)	-0·44 (-2·77 to 1·88)	-0·58 (-2·43 to 1·27)	0-541	52

THE LANCET

Antibiotics for lower respiratory tract infection in children presenting in primary care in England (ARTIC PC): a double-blind, randomised, placebo-controlled trial

• D	esign:		Placebo group (n=211)	Antibiotics group (n=221)	Adjusted* treatment estimate (95% CI)
Р	• ac	Duration of moderately bad or worse (score ≥3) symptoms in days	6 (4 to 15)	5 (4 to 11)	Hazard ratio 1.13 (0.90 to 1.42)
	Amo	Symptom severity	2.1 (1.1)	1.8 (1.1)	Difference –0.28 (–0.51 to –0.04)
C	Place	Duration of symptoms until very little problem (score 1) in days	8 (5 to 19)	7 (4 to 17)	Hazard ratio 1.09 (0.86 to 1.38)
0	Durat	Return with new or worsening symptoms	38%	30%	Odds ratio 0.71 (0.46 to 1.09); risk ratio 0.80 (0.58 to 1.05)
		Assessment or admission needed in hospital†	2%	2%	Odds ratio 1·24 (0·32 to 4·78); risk ratio 1·23 (0·32 to 4·44)
		Side-effects	33%	39%	Odds ratio 1·33 (0·81 to 2·17); risk ratio 1·20 (0·87 to 1·55)
		Data are median (IQR), mean (SD), or n (%), comorbidity. †Assessment or admission ne			
		Table 4: Effectiveness of antibiotics on	primary and se	condary outco	mes (imputed)

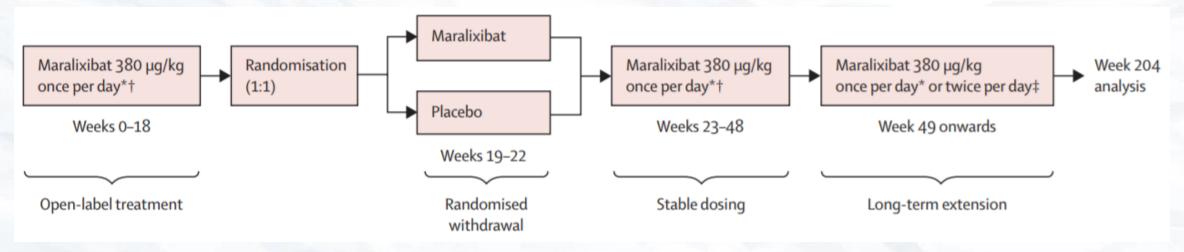
THE LANCET

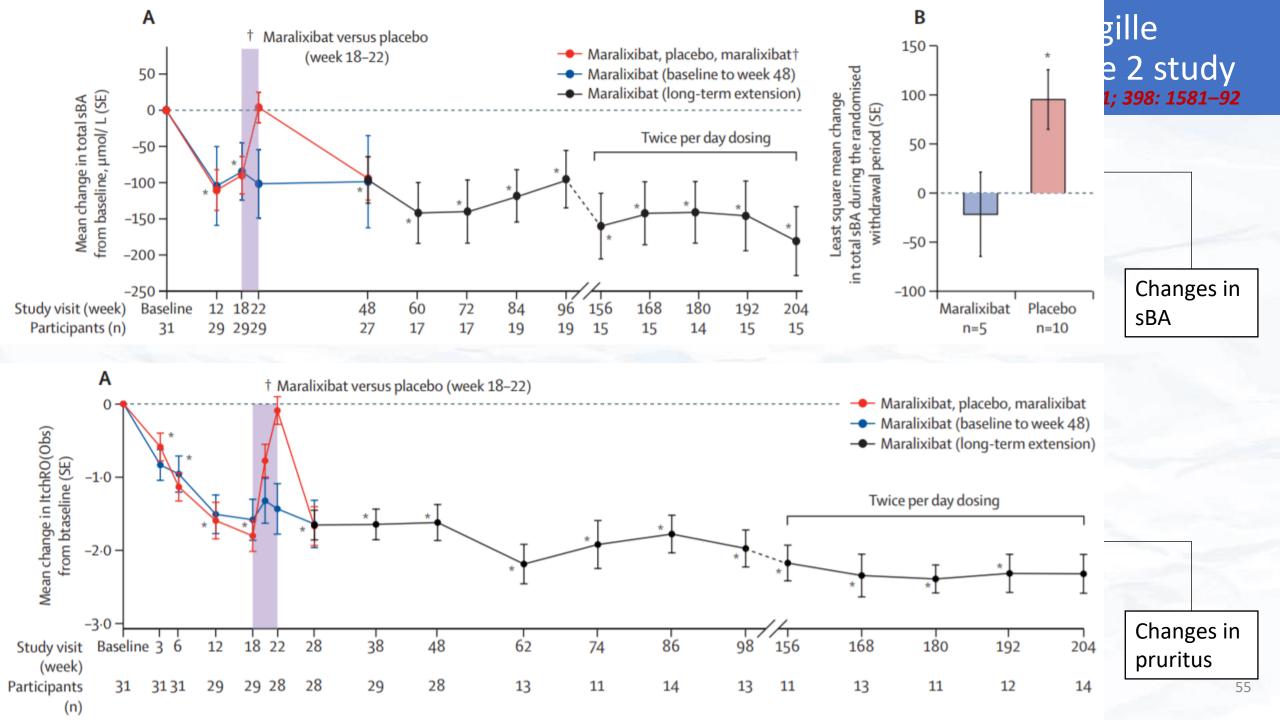
Efficacy and safety of maralixibat treatment in patients with Alagille syndrome and cholestatic pruritus (ICONIC): a randomised phase 2 study

Lancet 2021; 398: 1581-92

• Design: international, multicenter, phase 2b, double-blind, placebo-controlled, drug-withdrawal study with open-label extension

Р	Children aged 12 months to 18 years with a clinical diagnosis of Alagille syndrome
1	maralixibat 380 μg/kg QD
С	Placebo
0	mean sBA change during the RWD in participants with at least 50% sBA reduction by week 18





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