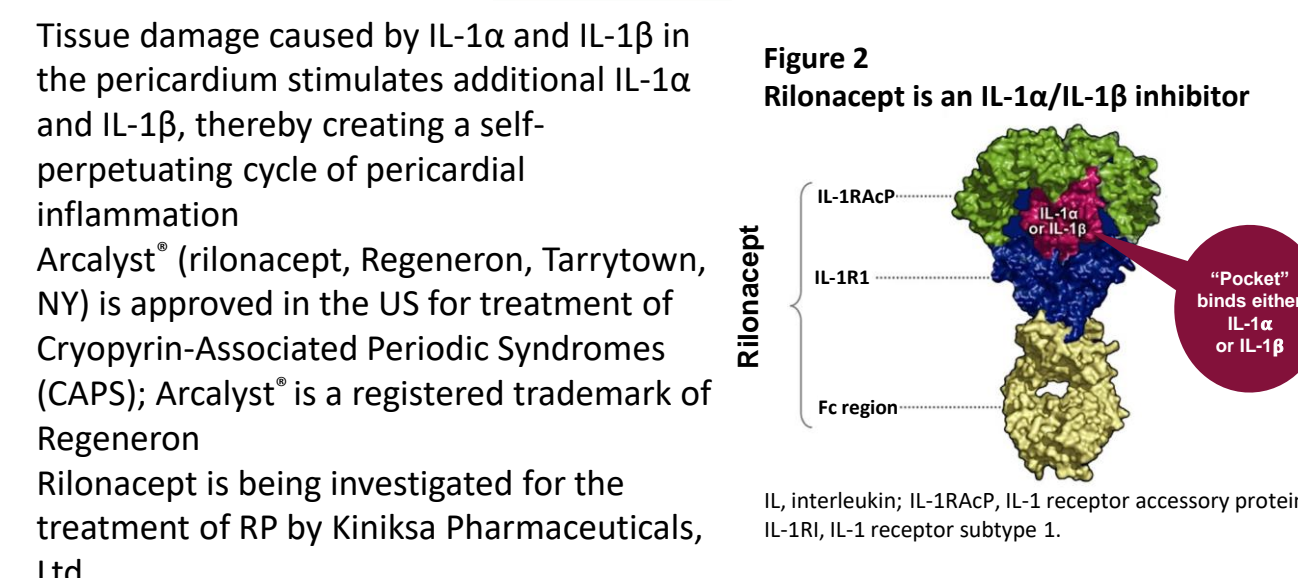
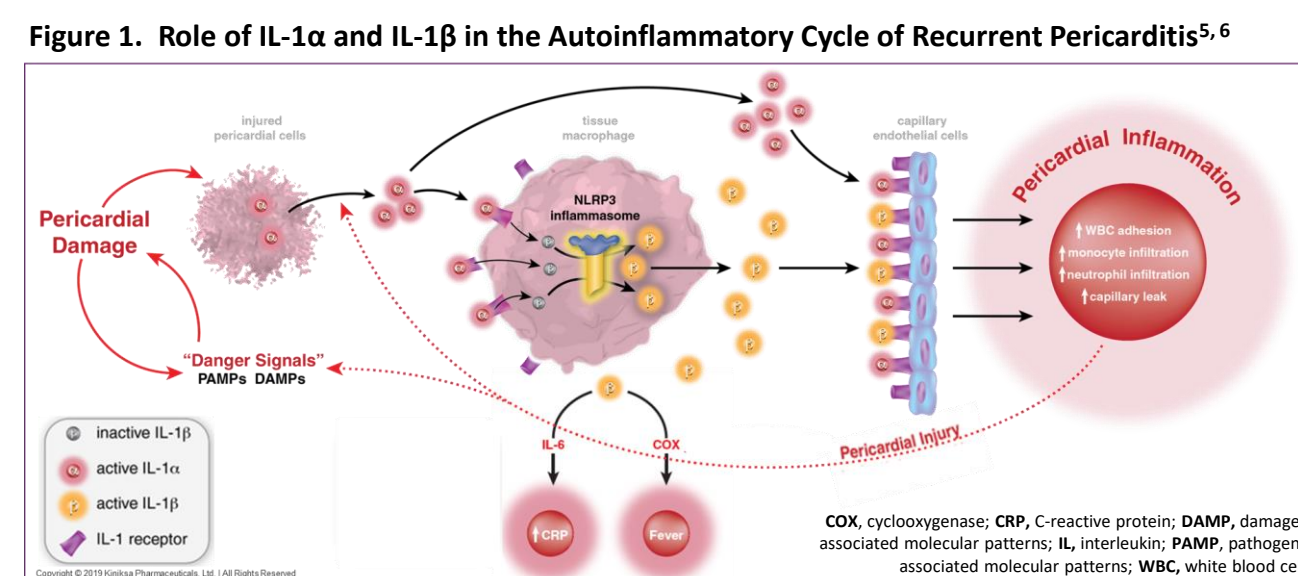


Efficacy and Safety of Rilonacept in Recurrent Pericarditis: A Multicenter Phase 2 Clinical Trial

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BACKGROUND

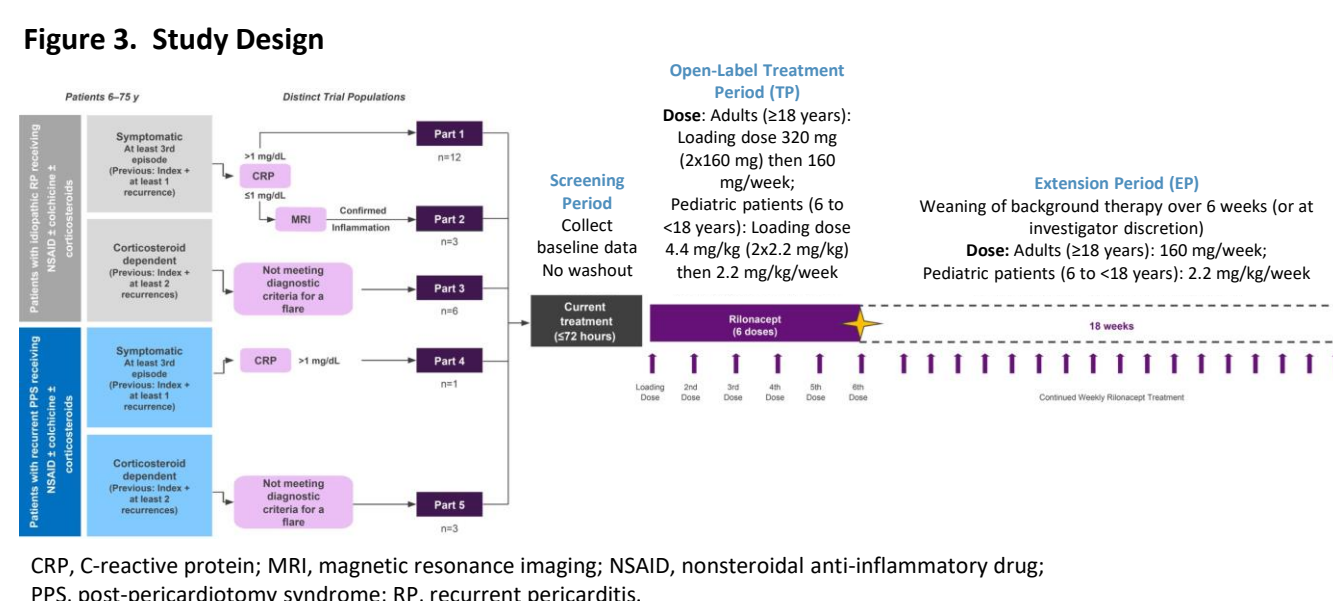
- Recurrent pericarditis (RP) is characterized by the recurrence of pericarditis signs and symptoms after a symptom-free period of ≥4 to 6 weeks¹
- RP affects 15% to 30% of patients with acute pericarditis²
- Conventional treatment options include nonsteroidal anti-inflammatory drugs (NSAIDs), colchicine, and corticosteroids (CS)³
- Recurrent pericarditis is associated with a high burden of disease
 - Debilitating chest-pain that limits physical activity and activities of daily living, leads to emergency visits and overall reduces quality of life (QOL)⁴
 - Potentially life-threatening complications including tamponade and constrictive pericarditis
 - Limited efficacy data and side effects of conventional therapeutic options, especially corticosteroids
 - Need for invasive surgery, i.e., pericardiectomy, for patients refractory to conventional treatments



- Interleukin-1 (IL-1) is a family of cytokines which mediates the pathophysiology of recurrent pericarditis (Figure 1)
- Rilonacept inhibits IL-1 signaling by acting as a soluble decoy receptor that binds IL-1α and IL-1β, thereby preventing interaction with the IL-1 cell surface receptors
- Rilonacept is a dimeric fusion protein consisting of ligand-binding domains of the extracellular portions of the human IL-1 receptor component (IL-1RI) and IL-1 receptor accessory protein (IL-1RAcP) linked in-line to the Fc portion of human IgG1 (Figure 2)

METHODS

- ### Study Objectives
- Evaluate the efficacy and safety of rilonacept in patients with RP, assessing:
 - Improvement of pericarditis symptomatology with rilonacept administration
 - Feasibility of weaning from corticosteroids while receiving rilonacept in patients with corticosteroid-dependent RP of idiopathic or post-pericardiectomy syndrome (PPS) etiology
 - Safety of rilonacept
- ### Study Design
- Open-label, single-active-arm, 5-part pilot study explored clinical and biochemical endpoints of pericarditis and collected inter- and intra-patient variability data for baseline and on-treatment parameters (Figure 3)
 - Eligible patients were adults (18 to 75 y) or children (<6 to <18 y) with RP due to idiopathic or PPS etiology, presenting with at least a third pericarditis episode or with at least 3 prior episodes if not in an active episode but CS-dependent at the time of enrollment
 - All patients at study entry were allowed concomitant NSAIDs and/or colchicine and/or CS (in any combination) as long as the dosages were stable for ≥7 days; CS-dependent patients must have been on CS at enrollment
 - Serial MRIs were performed on a subset of patients at enrollment and Final Visit



RESULTS

Table 1. Baseline Demographics

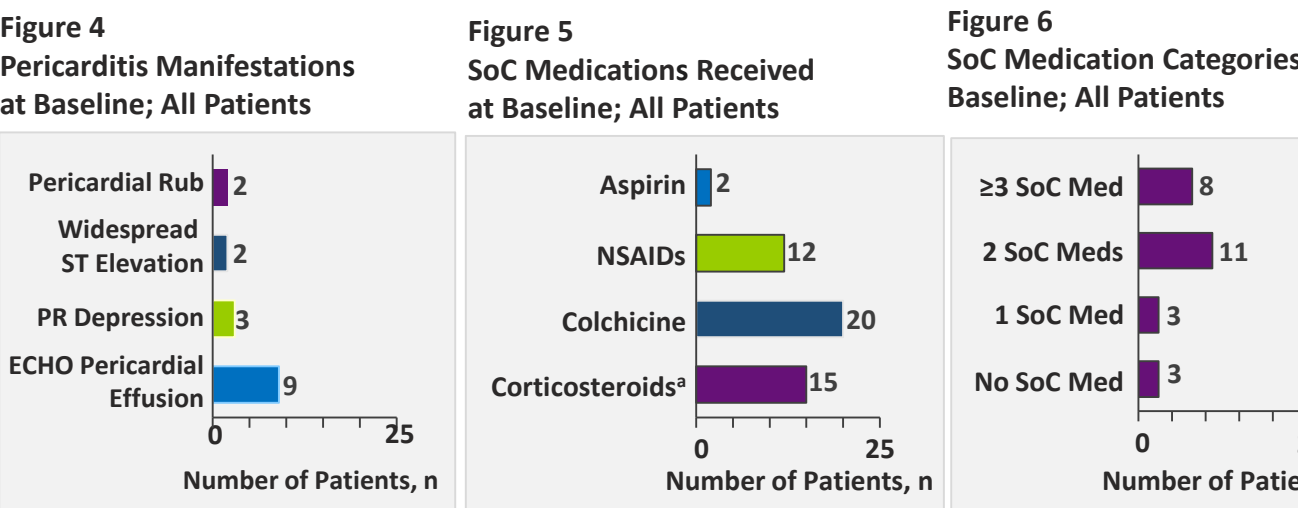
General Characteristics	All Patients (n=25)
Unique patients, n	25
Mean age (range), yrs	42.8 (26-62)
Sex (male/female)	10/15
Race (white/African American)	22/3
Mean pericarditis episodes at enrollment ^a (range)	4.3 (3-10)
Mean disease duration (range), yrs	2.2 (0.2-7.9)

^aIncludes index, recurrent, and qualifying (if applicable) episodes

Table 2. Clinical Characteristics

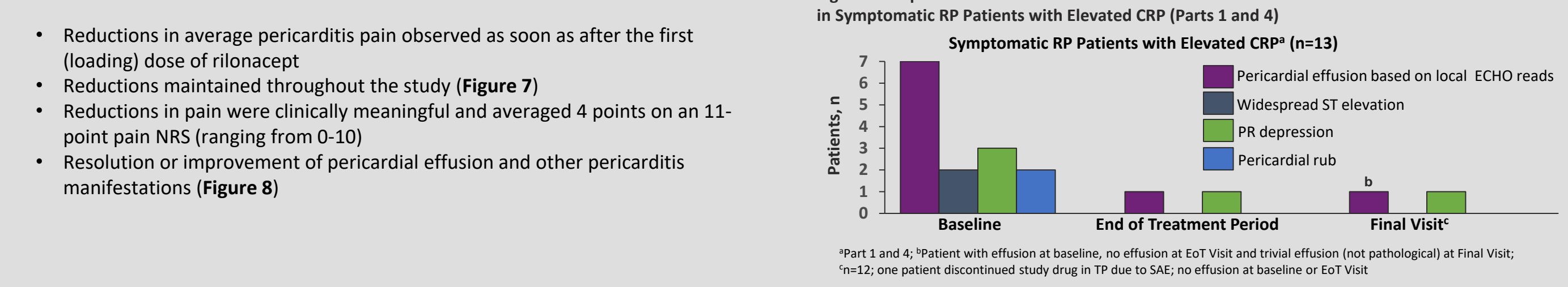
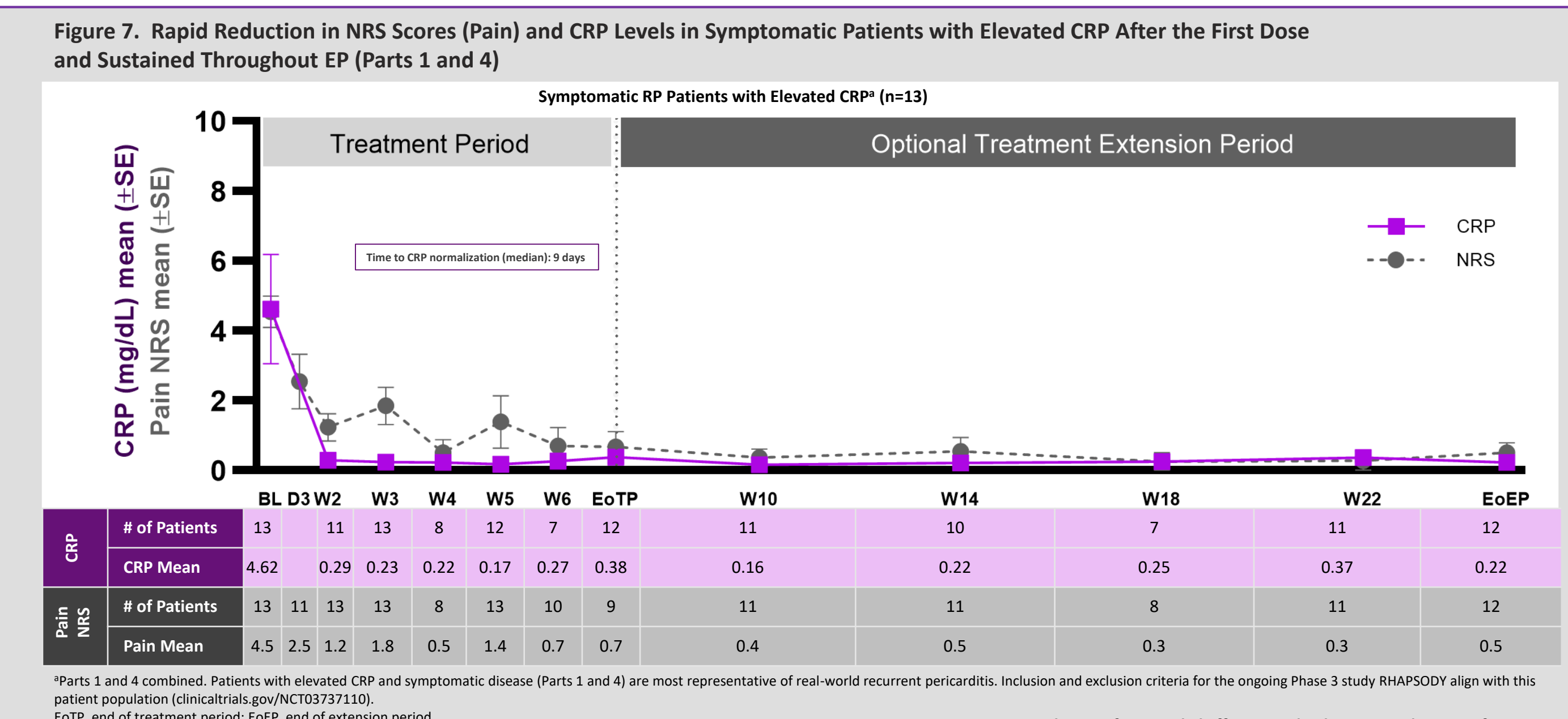
Disease Status: CRP requirement (mg/dL):	Idiopathic RP			PPS	
	Active ^a >1	Active ^b ≤1	CS-dep ^c N/A	Active ^d >1	CS-dep ^e N/A
N:	12	3	6	1	3
Mean NRS ^f (SD)	4.6 (1.7)	4.7 (3.1)	1.2 (0.8)	4.0 (N/A)	2.0 (2.7)
Mean CRP (SD), mg/dL	4.9 (5.8)	0.5 (0.4)	0.2 (0.1)	1.1 (N/A)	0.1 (0.1)

^aPart 1; ^bPart 2; ^cPart 3; ^dPart 4; ^ePart 5; ^f11-point numeric scale, ranging from zero (0, no pain) to ten (10, pain as bad as possible); CRP, C-reactive protein; CS-dep, corticosteroid-dependent; NRS, numeric rating scale; CS-dep, corticosteroid-dependent; PPS, post-pericardiectomy syndrome



RESULTS, continued

Rapid, sustained, and clinically meaningful reductions in patients' pericarditis pain and CRP in symptomatic RP with elevated CRP >1 mg/dL (Parts 1 and 4)



Corticosteroid-dependent patients who entered the study without an active pericarditis episode maintained low average pain and CRP levels without disease recurrence despite tapering off the corticosteroids while rilonacept treatment continued (Parts 3 and 5)

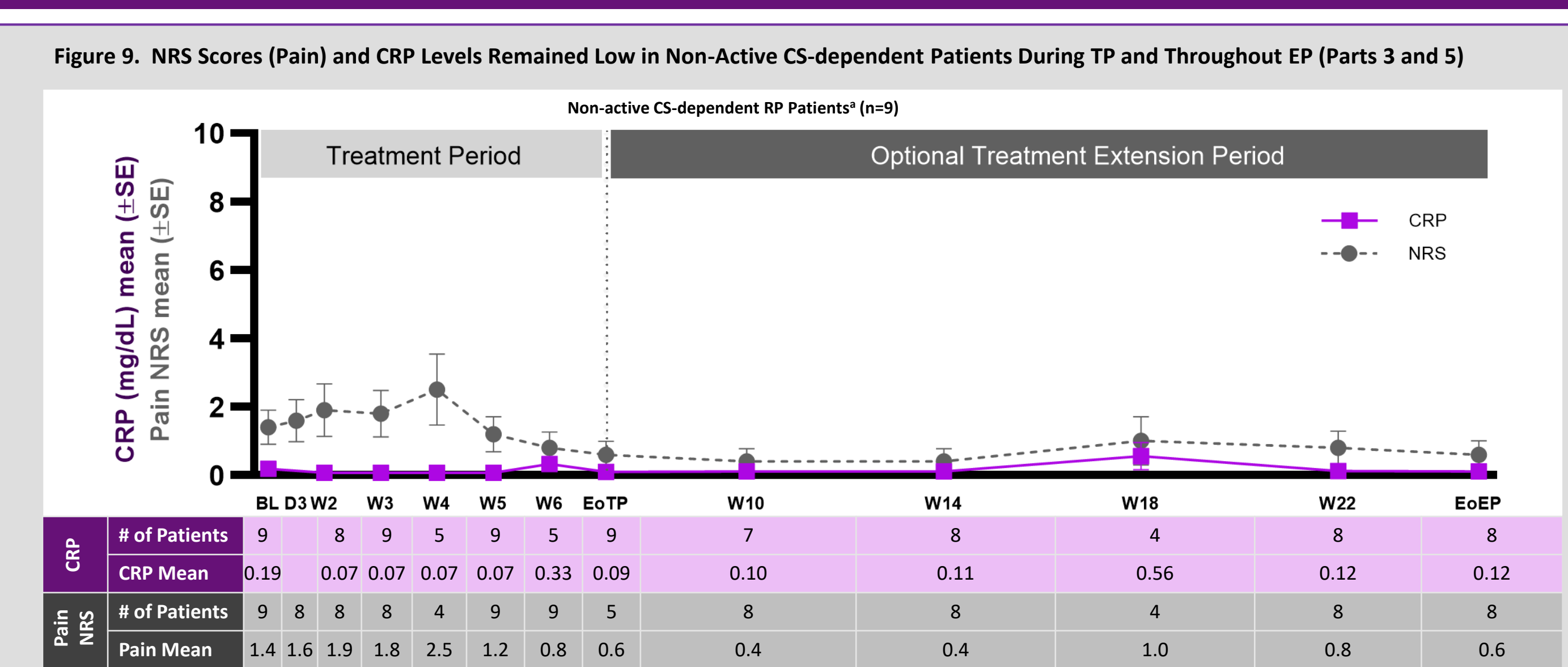
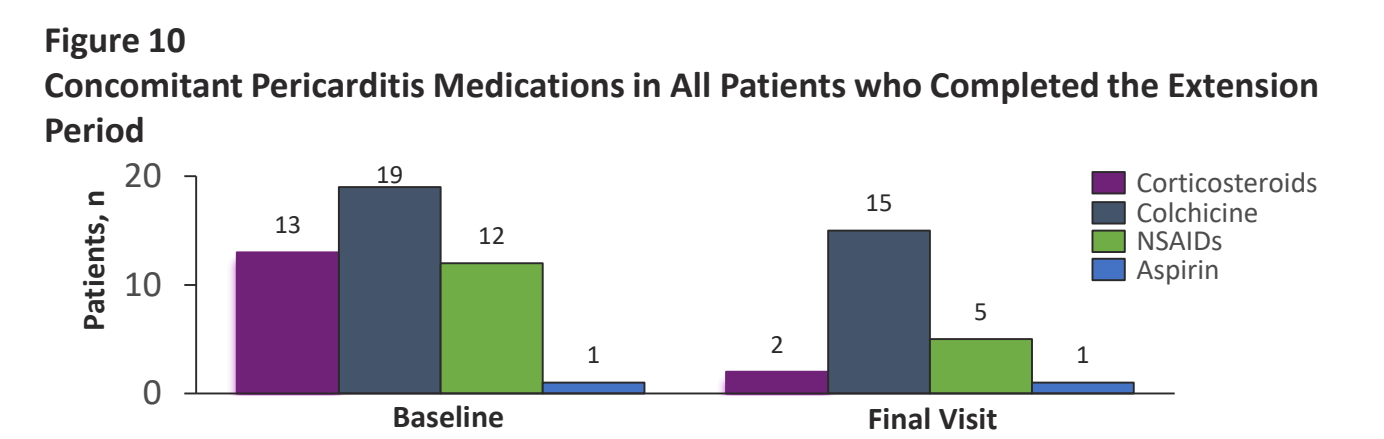


Table 3. Corticosteroid-Dependent Patients (Parts 3 and 5): Pericarditis Medication During TP and EP Combined

Medication	At least 1					
	Analgesics	Aspirin	NSAIDs	Colchicine	CS	
Dose stopped	7/8 (87.5)	0/0	0/1	2/5 (40.0)	1/7 (14.3)	7/8 (87.5)
Dose decreased	4/8 (50)	0/0	1/1 (100)	2/5 (40)	1/7 (14.3)	1/8 (12.5)
Dose increased	0/8	0/0	0/1	0/5	0/7	0/8
Starting new	0/8	0/8	0/8	0/8	0/8	0/8

All patients on CS at baseline who completed the Extension Period reduced or stopped CS during treatment with rilonacept, and none of these patients experienced a pericarditis recurrence while on rilonacept treatment



Of 13 patients on CS at baseline who completed EP, 11 discontinued CS, and the remaining two successfully reduced the dose (Table 4)

- None of the patients in EP required initiation of prednisone for pericarditis
- There were no pericarditis recurrences based on Investigator's judgement after prednisone taper or discontinuation in EP

Table 4. Corticosteroid Use in All Patients

Disease Status: CRP requirement (mg/dL):	Idiopathic			PPS		Idiopathic or PPS
	Active ^a >1	Active ^b ≤1	CS-dep ^c N/A	Active ^d >1	CS-dep ^e N/A	All ^{f,g} N/A
N:	12	3	6	1	3	25
Baseline	4	2	6	0	3	15
Mean dose (mg/day)	8.4	40.0	8.9	0	7.7	12.7
Min	1.0	30.0	2.5	0	3.0	1.0
Max	12.5	50.0	30	0	15.0	50.0
Corticosteroid Changed During TP and EP Combined	0/3	1/2 (50.0)	1/5 (20.0)	0/0	0/3	2/13 (15.4)
Prednisone dose decreased ^h	3/3 (100)	1/2 (50.0)	4/5 (80.0)	0/0	3/3 (100)	11/13 (84.6)
Prednisone stopped ^h	0/3	0/2	0/5	0/0	0/3	0/13
Prednisone dose increased ^h	0/11	0/3	0/5	0/1	0/3	0/23

Rilonacept improved quality of life as assessed by PROMIS[®] questionnaire

- Increased PROMIS[®]v.1.2 Global Health scores reflect improvement in quality of life with rilonacept treatment (Table 5)
- At baseline, mean scores across all patients were below 50, which is the mean score for the general US population⁷
- In symptomatic patients with active RP of idiopathic or PPS etiology (Parts 1, 2, and 4), the mean Physical and Mental Global Health baseline scores were 39.9 and 44.5, respectively, and improved to 51.3 and 50.5, respectively, at the Final Visit
- In CS-dependent patients with RP of idiopathic or PPS etiology without an active pericarditis episode (Parts 3 and 5), the mean Physical and Mental Global Health baseline scores were 43.3 and 46.5, respectively, and improved to 46.8 and 50.7, respectively, at the Final Visit

Table 5. PROMIS[®] Scale (v1.2): Global Health by Symptomatic Patients (Parts 1, 2, 4) and CS-Dependent (Parts 3, 5)

Global Health, mean (SD)	Idiopathic or PPS	
	Active ^a (n=16)	CS-dependent ^c (n=9)
Baseline	39.94 (8.941)	43.3 (5.311)
End of TP	51.35 (7.962)	45.09 (4.057)
Final Visit	51.32 (6.564)	46.81 (9.266)
Baseline	44.5 (10.484)	46.49 (7.767)
End of TP	50.13 (11.325)	47.91 (5.509)
Final Visit	50.54 (10.995)	50.66 (6.299)

CONCLUSIONS

- Rapid improvements in both patient-reported outcomes (pain, QoL) and other clinical manifestations of pericarditis (CRP levels, pericardial effusions, ECG changes, pericardial rubs, pericardial inflammation by MRI) persisted throughout the 6-month study period⁸
 - In symptomatic RP patients with elevated CRP:
 - Clinically meaningful reductions in pain NRS scores and CRP levels were seen as early as after the first rilonacept administration and maintained throughout the 6 month duration of the study
 - Median time to CRP normalization was 9 days
 - In CS-dependent RP patients:
 - Low NRS and CRP levels maintained throughout the 6-month duration of the study
- Treatment with rilonacept allowed for discontinuation of corticosteroids without pericarditis recurrences, including patients who had been corticosteroid-dependent for disease control, suggesting a potential corticosteroid-sparing effect of rilonacept which could offer a clinically meaningful advantage over existing therapies by allowing for a reduction in corticosteroid dose or even by obviating corticosteroid use altogether, thus eliminating or reducing the risk of significant corticosteroid-associated morbidity
- Reduced annualized incidence of pericarditis episodes from 3.9 episodes/year prior to the study to <0.18 episodes/year during the study while on rilonacept treatment as compared to patients' own natural history in the period prior to study entry; these data thus provide supportive evidence that the reductions in the markers of pericardial inflammation (pain, CRP, clinical manifestations) observed during the trial were in fact due to a treatment effect of rilonacept and not due to spontaneous resolution.
- Safety data from this study are consistent with the known safety profile of rilonacept

Annualized incidence of pericarditis episodes decreased from 3.9 episodes/year prior to the study to <0.18 episodes/year during rilonacept treatment in the study (Table 6)

Table 6. Annualized Incidence of Pericarditis Episodes Prior to and During the Study

Disease Status: CRP requirement (mg/dL):	Idiopathic			PPS	
	Active ^a >1	Active ^b ≤1	CS-dep ^c N/A	Active ^d >1	CS-dep ^e N/A
N:	12	3	6	1	3
Prior to the study ^f					
Pericarditis episodes per year, mean (SD)	4.4 (4.68)	2.0 (1.75)	4.5 (2.58)	1.3 (N/A)	3.7 (3.02)
During the study ^g					
Pericarditis episodes per year, mean (SD)	0.18 (0.62)	0	0	0	0

Rilonacept was generally well-tolerated (Table 7); majority of AEs were mild

Table 7. Adverse Events

Disease Status: CRP requirement (mg/dL):	Idiopathic			PPS		Idiopathic or PPS	
	Active ^a >1	Active ^b ≤1	CS-dep ^c N/A	Active ^d >1	CS-dep ^e N/A	All ^{f,g} N/A	All ^{f,g} N/A
N:	12	3	6	1	3	16	9
≥1 TEAE, n (%)	12 (100)	3 (100)	6 (100)	1 (100)	3 (100)	16 (100)	25 (100)
≥1 treatment-related TEAE, n (%)	9 (75)	2 (66.7)	3 (50)	1 (100)	2 (66.7)	12 (75)	5 (55.6)
≥1 serious TEAE, n (%)	2 (16.7)	0	0	0	0	2 (12.5)	0
≥1 treatment-related serious TEAE, n (%)	1 (8.3)	0	0	0	0	1 (6.3)	0
≥1 TEAE leading to treatment discontinuation, n (%)	1 (8.3)	0	0	0	0	1 (6.3)	0
≥1 TEAE leading to death, n (%)	0	0	0	0	0	0	0
TEAEs by severity, n (%)							
Mild	9 (75)	3 (100)	4 (66.7)	1 (100)	2 (66.7)	13 (81.3)	6 (66.7)
Moderate	2 (16.7)	0	2 (33.3)	0	2 (12.5)	2 (22.2)	4 (16)
Severe	1 (8.3)	0	0	0	1 (33.3)	1 (6.3)	1 (11.1)
Reactions at injection site ^h , n (%)	5 (41.7)	1 (33.3)	3 (50)	1 (100)	2 (66.7)	7 (43.8)	5 (55.6)

- There were 2 serious treatment-emergent AEs reported in Part 1, both of which resolved
 - 1 patient with subcutaneous abscess (possibly related to study drug that resolved with medical management) discontinued rilonacept treatment
 - 1 patient with atypical chest pain (not related to study drug) continued rilonacept treatment
- AEs observed with rilonacept treatment are consistent with the known safety profile of rilonacept
- The most common AEs were observed in the general disorders and administration site conditions (injection site reactions), infections and infestations, and musculoskeletal and connective tissue disorders classes

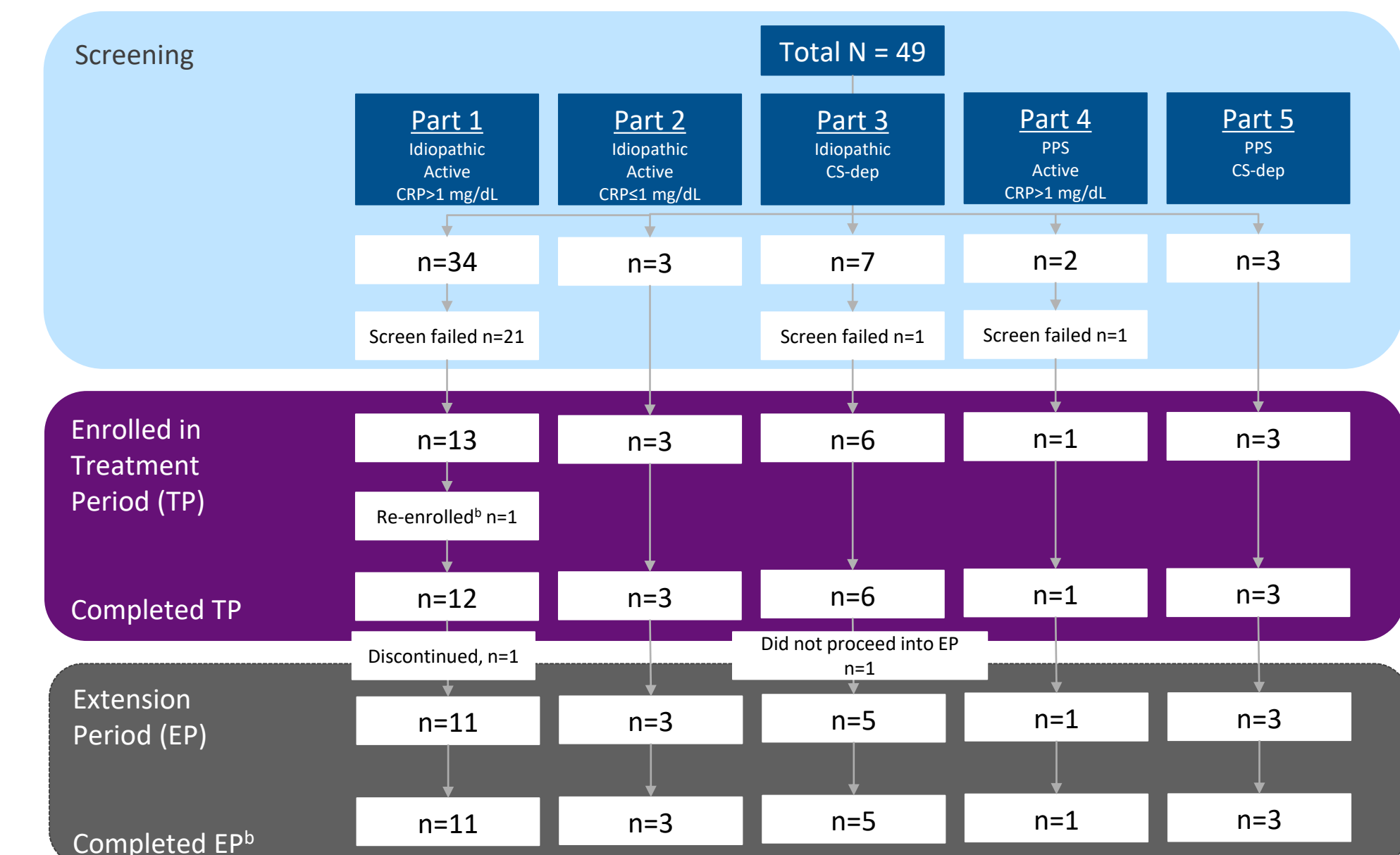
DISCLOSURES AND ACKNOWLEDGEMENTS

This study was sponsored by Kiniksa Pharmaceuticals, Ltd. AK – research grant and advisory board for Kiniksa, advisory board for Sobi and Pfizer, and royalties from Kluwer Lippincott and Elsevier; PC – advisory board for Kiniksa and Sobi; SAJ – advisory board for Sobi; AA – research grant and advisory board for Kiniksa; MML – advisory board and consultant for Kiniksa; SC and AB – consultant for Kiniksa; FF, RP, KW, and JFP – employees of Kiniksa Corp.; DL and AE – no disclosures; The authors would like to acknowledge the contributions of Larisa Collins and Sharon Crugnale to this study.

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Supplementary Figure 1. Patient Disposition*



*As of final data cut. *One patient participated in the study twice (N=26); however, data are reported for 25 unique patients.

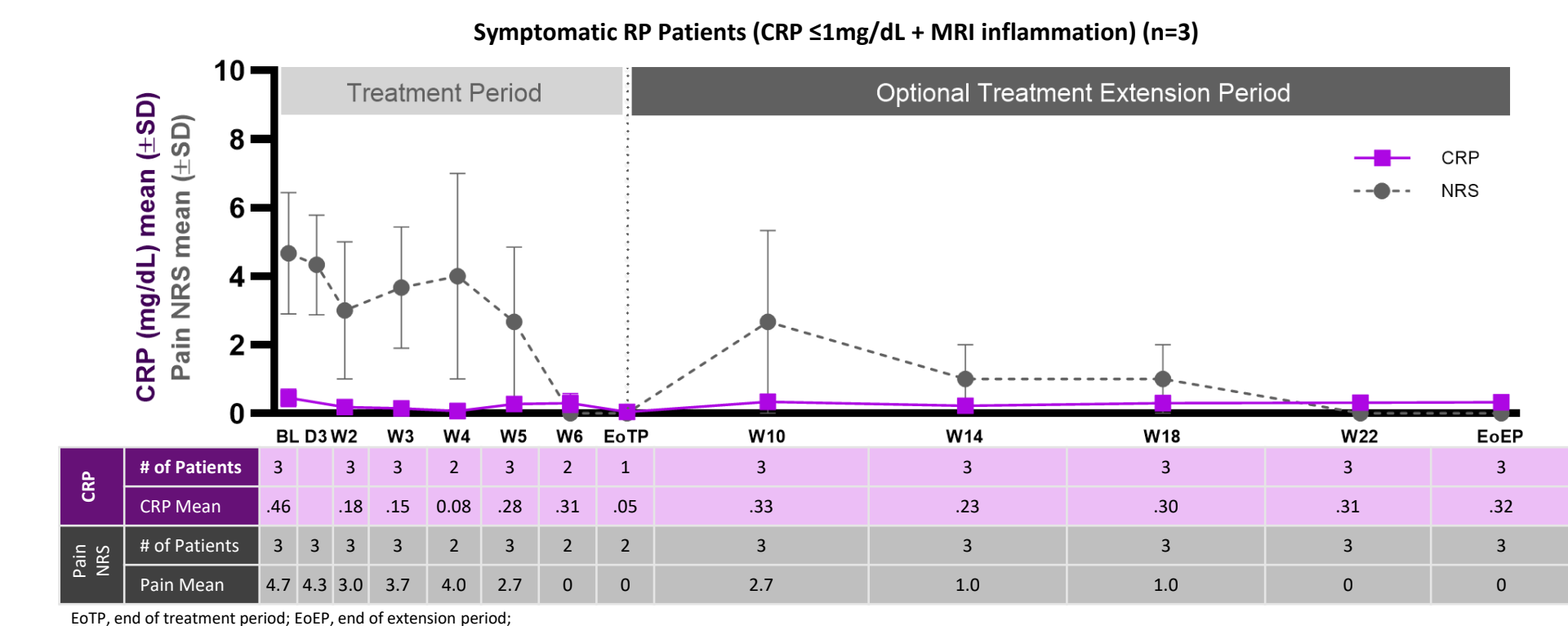
Supplementary Table 1. Baseline Demographic and Clinical Characteristics

Disease Status: CRP requirement (mg/dL):	Idiopathic			PPS		Idiopathic or PPS
	Active ^a >1	Active ^b ≤1	CS-dep ^c N/A	Active ^d >1	CS-dep ^e N/A	All ^{b,f} N/A
N:	12	3	6	1	3	25
Mean (SD) age, y	39.6 (10.2)	42.7 (15.0)	51.3 (7.8)	34.0	42.0 (7.2)	42.8 (10.5)
Female sex, n (%)	9 (75.0)	3 (100.0)	2 (33.3)	0	1 (33.3)	15 (60.0)
Race, n (%)						
White	10 (83.3)	2 (66.7)	6 (100.0)	1 (100.0)	3 (100.0)	22 (88.0)
Black/African American	2 (16.7)	1 (33.3)	0	0	0	3 (12.0)
Mean (SD) BMI, kg/m ²	30.2 (5.4)	40.0 (12.1)	31.1 (4.1)	29.3	24.7 (2.1)	30.9 (6.7)
Mean (SD) pain rating, NRS ^g	4.6 (1.7)	4.7 (3.1)	1.2 (0.8)	4.0	2.0 (2.7)	3.4 (2.3)
Mean (SD) baseline CRP, mg/dL	4.9 (5.8)	0.5 (0.4)	0.2 (0.1)	1.1	0.1 (0.05)	2.5 (4.6)
Pericarditis medications, n (%)						
Aspirin	0	0	2 (33.3)	0	0	2 (8.0)
NSAIDs	6 (50.0)	1 (33.3)	4 (66.7)	0	1 (33.3)	12 (48.0)
Colchicine	8 (66.7)	3 (100.0)	6 (100.0)	1 (100.0)	2 (66.7)	20 (80.0)
Corticosteroids	4 (33.3)	2 (66.7)	6 (100.0)	0	3 (100.0)	15 (60.0)
Pericarditis medication categories, n (%)						
0	3 (25.0)	0	0	0	0	3 (12.0)
1	2 (16.7)	0	0	1 (100.0)	0	3 (12.0)
2	5 (41.7)	3 (100.0)	0	0	3 (100.0)	11 (44.0)
≥3	2 (16.7)	0	6 (100.0)	0	0	8 (32.0)
Number of previous pericarditis recurrences						
Mean	1.8	2.0	3.3	8.0	3.3	2.6

*Part 1; *Part 2; *Part 3; *Part 4; *Part 5; *11-point numeric scale, ranging from zero (0, no pain) to ten (10, pain as bad as possible). BMI, body mass index; CRP, C-reactive protein; CS, corticosteroid; CS-dep, corticosteroid-dependent; NRS, numeric rating scale; NSAID, nonsteroidal anti-inflammatory drug; PPS, post-pericardiotomy syndrome

Pain reductions and maintenance of low CRP levels were observed in symptomatic patients without elevated CRP and with MRI inflammation

Supplementary Figure 2. Reduction in NRS Scores (Pain) and Maintenance of CRP Levels in Symptomatic RP Patients (CRP ≤1mg/dL + MRI inflammation) After the First Dose and Throughout EP (Part 2)



Supplementary Table 2. Treatment with Rilonecept Resulted in Resolution of Pericardial Rub, ECG Changes, and Pericardial Effusion on Echocardiography

Disease Status: CRP requirement (mg/dL):	Idiopathic			PPS	
	Active ^a >1	Active ^b ≤1	CS-dep ^c N/A	Active ^d >1	CS-dep ^e N/A
N:	12	3	6	1	3
Baseline					
Widespread ST elevation	2/12 (16.7)	0/3	0/6	0/1	0/3
PR depression	3/12 (25.0)	0/3	0/6	0/1	0/3
Pericardial rub	2/12 (16.7)	0/3	0/6	0/1	0/3
Fever	0/12	0/3	0/6	0/1	0/3
Pericardial effusion on ECHO	7/12 (58.3)	0/3	2/6 (33.3)	0/1	0/3
End of TP (visit 7)					
Widespread ST elevation	0/12	0/2	0/6	0/1	0/3
PR depression	1/12 (8.3)	0/2	0/6	0/1	0/3
Pericardial rub	0/11	0/3	0/6	0/1	0/3
Fever	0/12	0/3	0/6	0/1	0/3
Pericardial effusion on ECHO	1/12 (8.3)	0/2	1/6 (16.7)	0/1	0/3
Final Visit					
Widespread ST elevation	0/11	0/3	0/5	0/1	0/3
PR depression	1/11 (9.1)	0/3	0/5	0/1	0/3
Pericardial rub	0/11	0/3	0/5	0/1	0/3
Fever	0/11	0/3	0/5	0/1	0/3
Pericardial effusion on ECHO	1/11 (9.1)	0/3	1/5 (20.0)	0/1	0/3

*Part 1; *Part 2; *Part 3; *Part 4; *Part 5 CS-dep, corticosteroid-dependent; ECHO, echocardiography; PPS, post-pericardiotomy syndrome; TP, treatment period.

Supplementary Table 3. Changes in pain NRS and inflammation (CRP)

Disease Status: CRP requirement (mg/dL):	Idiopathic			PPS						
	Active ^a >1	Active ^b ≤1	CS-dep ^c N/A	Active ^d >1	CS-dep ^e N/A					
N	Mean (SD)	N	Mean (SD)	N	Mean (SD)	N	Mean (SD)	N	Mean (SD)	
CRP level										
Baseline	12	4.91 (5.77)	3	0.46 (0.44)	6	0.23 (0.10)	1	1.14 (N/A)	3	0.10 (0.005)
Week 2	10	0.31 (0.21)	3	0.18 (0.19)	6	0.08 (0.04)	1	0.10 (N/A)	2	0.05 (0.00)
Week 3	12	0.25 (0.21)	3	0.15 (0.11)	6	0.08 (0.05)	1	0.03 (N/A)	3	0.04 (0.02)
Week 4	7	0.25 (0.12)	2	0.08 (0.06)	3	0.09 (0.02)	1	0.03 (N/A)	2	0.04 (0.03)
Week 5	11	0.18 (0.16)	3	0.28 (0.20)	6	0.09 (0.04)	1	0.05 (N/A)	3	0.04 (0.02)
Week 6	6	0.30 (0.29)	2	0.31 (0.39)	3	0.14 (0.12)	1	0.08 (N/A)	2	0.61 (0.69)
End of TP (visit 7)	11	0.36 (0.45)	1	0.05 (N/A)	6	0.09 (0.04)	1	0.53 (N/A)	3	0.10 (0.08)
Week 10	10	0.17 (0.17)	3	0.33 (0.29)	5	0.13 (0.11)	1	0.03 (N/A)	2	0.05 (0.04)
Week 14	9	0.23 (0.20)	3	0.23 (0.24)	5	0.12 (0.10)	1	0.06 (N/A)	3	0.09 (0.10)
Week 18	6	0.28 (0.29)	3	0.30 (0.23)	2	0.20 (0.07)	1	0.06 (N/A)	2	0.92 (1.19)
Week 22	10	0.39 (0.50)	3	0.31 (0.25)	5	0.11 (0.05)	1	0.07 (N/A)	3	0.13 (0.12)
Final Visit	11	0.24 (0.40)	3	0.32 (0.25)	5	0.15 (0.04)	1	0.05 (N/A)	3	0.06 (0.03)
Pain NRS										
Baseline	12	4.6 (1.68)	3	4.7 (3.06)	6	1.2 (0.75)	1	4.0 (N/A)	3	2.0 (2.65)
Day 3	10	2.7 (2.67)	3	4.3 (2.52)	6	1.2 (1.33)	1	1.0 (N/A)	2	3.0 (2.83)
Week 2	12	1.3 (1.44)	3	3.0 (3.46)	6	1.7 (1.97)	1	0.0 (N/A)	2	2.5 (3.54)
Week 3	12	2.0 (1.91)	3	3.7 (3.06)	6	1.5 (1.52)	1	0.0 (N/A)	2	2.5 (3.54)
Week 4	7	0.6 (1.13)	2	4.0 (4.24)	3	1.7 (1.53)	1	0.0 (N/A)	1	5.0 (N/A)
Week 5	12	1.5 (2.78)	3	2.7 (3.79)	6	0.8 (0.75)	1	0.0 (N/A)	3	2.0 (2.65)
Week 6	9	0.8 (1.72)	2	0.0 (0.0)	6	0.5 (0.84)	1	0.0 (N/A)	3	1.3 (2.31)
End of TP (visit 7)	8	0.8 (1.39)	2	0.0 (0.0)	3	1.0 (1.00)	1	0.0 (N/A)	2	0.0 (0.0)
Week 10	10	0.4 (0.84)	3	2.7 (4.62)	5	0.0 (0.0)	1	0.0 (N/A)	3	1.0 (1.73)
Week 14	10	0.6 (1.35)	3	1.0 (1.73)	5	0.0 (0.0)	1	0.0 (N/A)	3	1.0 (1.73)
Week 18	7	0.3 (0.76)	3	1.0 (1.73)	2	0.5 (0.71)	1	0.0 (N/A)	2	1.5 (2.12)
Week 22	10	0.3 (0.95)	3	0.0 (0.0)	5	0.6 (1.34)	1	0.0 (N/A)	3	1.0 (1.73)
Final Visit	11	0.5 (1.04)	3	0.0 (0.0)	5	0.4 (0.89)	1	0.0 (N/A)	3	1.0 (1.73)

*Part 1; *Part 2; *Part 3; *Part 4; *Part 5; CS-dep, corticosteroid-dependent; PPS, post-pericardiotomy syndrome

Case Study: Treatment/Retreatment of RP With Rilonecept

- Patient:** 50-year-old female with idiopathic pericarditis and 1 prior recurrence, enrolled in Part 1 during her third episode (pain NRS 6/10; CRP 8.85 mg/dL; pericardial effusion on echocardiography) while receiving colchicine 0.6 mg bid.
- Pain and CRP Reduction During the Study:** Addition of rilonecept to colchicine background rapidly reduced pain (week 2 pain NRS 1/10; week 24 pain NRS 0/10), decreased CRP (week 2 CRP 0.66 mg/dL; week 24 CRP 0.09 mg/dL), and resolved pericardial effusion.
- Safety:** Mild, transient injection site reactions occurred for 21 of 24 rilonecept injections; the patient also had reported mild AEs of heartburn, common cold, worsening of elevated LFTs, elevated cholesterol, elevated HDL, intermittent chest discomfort and elevated CK
- After Completing the EP:** Approximately 8 weeks after rilonecept discontinuation, while continuing on colchicine 0.6 mg bid, the patient presented with pericarditis symptoms requiring addition of celecoxib 200 mg/day. Ten weeks later the patient developed frank pericarditis recurrence (pain NRS 7/10; CRP 23.1 mg/dL) and cardiac tamponade requiring pericardiocentesis. The patient was re-enrolled in the study.
- Pain and CRP Normalized and Pericardial Effusion Resolved with Rilonecept Retreatment:** Rapid improvements in pain and CRP were observed after the first rilonecept administration (week 2 pain NRS 0/10; CRP 0.57 mg/dL). At the week 7 visit, NRS pain was 1/10, CRP was 0.09 mg/dL, and there was no evidence of pericardial effusion on echocardiography. At the last study evaluation available (1 month EP), NRS pain was 0/10 and CRP remained normal (0.08 mg/dL). At the Final Visit NRS pain was 0/10 and CRP remained normal (0.14 mg/dL).
- Safety:** Mild, transient injection site reactions occurred in 17 out of 24 rilonecept administrations; the patient also developed mild AEs of hypokalemia, decreased WBC count, and increased lipids.

Supplementary Table 4. Summary of Treatment-Emergent Adverse Events by System Organ Class and Preferred Term* (Safety Population)

Disease Status: CRP requirement (mg/dL):	Idiopathic			PPS		Idiopathic or PPS
	Active ^b >1	Active ^c ≤1	CS-dep ^d N/A	Active ^e >1	CS-dep ^f N/A	All ^{b,f} N/A
N:	12	3	6	1	3	25
Number of patients with at least 1 TEAE	12 (100.0)	3 (100.0)	6 (100.0)	1 (100.0)	3 (100.0)	25 (100.0)
Cardiac disorders	0	1 (33.3)	1 (16.7)	0	0	2 (8.0)
Angina pectoris	0	1 (33.3)	0	0	0	1 (4.0)
Cardiac discomfort	0	1 (16.7)	0	0	0	1 (4.0)
Pericarditis	0	1 (16.7)	0	0	0	1 (4.0)
Ear and labyrinth disorders	2 (16.7)	0	0	0	0	2 (8.0)
Vertigo	1 (8.3)	0	0	0	0	1 (4.0)
Vertigo positional	1 (8.3)	0	0	0	0	1 (4.0)
Eye disorders	1 (8.3)	0	0	0	0	1 (4.0)
Dry eye	1 (8.3)	0	0	0	0	1 (4.0)
Gastrointestinal disorders	6 (50.0)	0	0	0	0	6 (24.0)
Diarrhea	3 (25.0)	0	0	0	0	3 (12.0)
Dyspepsia	0	0	0	0	0	0
Hemorrhoids	1 (8.3)	0	0	0	0	1 (4.0)
Nausea	1 (8.3)	0	0	0	0	1 (4.0)
Toothache	1 (8.3)	0	0	0	0	1 (4.0)
General disorders and administration site conditions	6 (50.0)	2 (66.7)	4 (66.7)	1 (100.0)	3 (100.0)	16 (64.0)
Application site bruise	1 (8.3)	0	0	0	0	1 (4.0)
Application site erythema	1 (8.3)	0	0	0	0	1 (4.0)
Chest discomfort	1 (8.3)	0	0	0	0	1 (4.0)
Fatigue	0	0	1 (16.7)	0	1 (33.3)	2 (8.0)
Injection site bruising	1 (8.3)	0	0	1 (100.0)	0	2 (8.0)
Injection site erythema	1 (8.3)	1 (33.3)	0	0	0	2 (8.0)
Injection site joint warmth	1 (8.3)	1	0	0	0	2 (8.0)
Injection site pain	1 (8.3)	0	1 (16.7)	0	0	2 (8.0)
Injection site reaction	1 (8.3)	0	2 (33.3)	1 (100.0)	2 (66.7)	6 (24.0)
Non-cardiac chest pain	1 (8.3)	0	1 (16.7)	0	0	2 (8.0)
Periphereal swelling	1 (8.3)	1 (33.3)	0	0	1 (33.3)	2 (8.0)
Pyrexia	1 (8.3)	0	0	0	0	1 (4.0)
Ulcer haemorrhage	0	0	0	1 (100.0)	0	1 (4.0)
Infections and infestations	5 (41.7)	1 (33.3)	1 (16.7)	0	1 (33.3)	8 (32.0)
Cellulitis	2 (16.7)	0	0	0	0	2 (8.0)
Nasopharyngitis	3 (25.0)	0	1 (16.7)	0	0	4 (16.0)
Sinusitis	0	1 (33.3)	0	0	0	1 (4.0)
Subcutaneous abscess	1 (8.3)	0	0	0	0	1 (4.0)
Upper respiratory tract infection	0	0	0	0	1 (33.3)	1 (4.0)
Urinary tract infection	1 (8.3)	0	0	0	0	1 (4.0)
Injury, poisoning, and procedural complications	1 (8.3)	0	0	0	0	1 (4.0)
Post procedural discharge	1 (8.3)	0	0	0	0	1 (4.0)
Investigations	2 (16.7)	0	3 (50.0)	1 (100.0)	0	6 (24.0)
Alanine aminotransferase increased	0	0	1 (16.7)	0	0	1 (4.0)
Aspartate aminotransferase increased	0	0	1 (16.7)	0	0	1 (4.0)
Blood cholesterol increased	1 (8.3)	0	1 (16.7)	0	0	2 (8.0)
Blood creatine phosphokinase increased	1 (8.3)	0	0	1 (100.0)	0	2 (8.0)
C-reactive protein increased	0	0	0	1 (100.0)	0	1 (4.0)
Hepatic enzyme increased	0	0	1 (16.7)	0	0	1 (4.0)
High-density lipoprotein increased	1 (8.3)	0	0	0	0	1 (4.0)
Liver function test increased	2 (16.7)	0	0	0	0	2 (8.0)
Lipids						