



Corporate Presentation

NOVEMBER 2022

Forward Looking Statements

This presentation (together with any other statements or information that we may make in connection herewith) contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995 with respect to Kiniksa Pharmaceuticals, Ltd. (and its consolidated subsidiaries, collectively, unless context otherwise requires, “Kiniksa,” “we,” “us” or “our”). In some cases, you can identify forward looking statements by terms such as “may,” “will,” “should,” “expect,” “plan,” “anticipate,” “could,” “intend,” “goal,” “design,” “target,” “project,” “contemplate,” “believe,” “estimate,” “predict,” “potential,” “strategy,” or “continue” or the negative of these terms or other similar expressions, although not all forward-looking statements contain these identifying words. All statements contained in this presentation that do not relate to matters of historical fact should be considered forward-looking statements, including without limitation, statements regarding our strategy; potential value drivers; potential indications; potential market opportunities and competitive position; ongoing, planned and potential clinical trials and other studies; timing and potential impact of clinical data; regulatory and other submissions, applications and approvals; commercial strategy and commercial activities; expected run rate for our cash, cash equivalents and short-term investments; expected funding of our operating plan; financial guidance; third-party collaborations and licensing; and capital allocation.

These statements involve known and unknown risks, uncertainties, and other important factors that may cause our actual results, performance or achievements to be materially different from those expressed or implied by the forward-looking statements, including, without limitation, potential delays or difficulties with our clinical trials; potential inability to demonstrate safety or efficacy or otherwise producing negative, inconclusive or uncompetitive results; potential for changes in final data from preliminary or interim data; potential inability to replicate in later clinical trials positive results from earlier trials and studies; our reliance on third parties for manufacturing and conducting clinical trials, research and other studies; our ability to realize value from our licensing and collaboration arrangements; our ability to source sufficient drug product, as needed, to meet our clinical and commercial requirements; our inability to demonstrate safety and efficacy to the satisfaction of applicable regulatory authorities; potential for applicable regulatory authorities to not accept our filings or to delay or deny approval of, or emergency use authorization for, any of our product candidates or to require additional data or trials to support any such approval or authorization; delays, difficulty or inability to successfully execute on our commercial strategy for ARCALYST; potential changes in our strategy, clinical trial priority, operating plan and funding requirements; raw materials, important ancillary product and drug substance and/or drug product shortages; substantial new or existing competition; potential impact of the COVID-19 pandemic or any subsequent pandemic, and measures taken in response to such pandemics, on our business and operations as well as the business and operations of our manufacturers, CROs upon whom we rely to conduct our clinical trials, and other third parties with whom we conduct business or otherwise engage, including the FDA and other regulatory authorities; risks related to the ongoing war in Ukraine; risks arising from political and economic instability; and our ability to attract and retain qualified personnel.

These and the important factors discussed in our filings with the U.S. Securities and Exchange Commission, including under the caption “Risk Factors” contained therein could cause actual results to differ materially from those indicated by the forward-looking statements made in this presentation. These forward-looking statements reflect various assumptions of Kiniksa’s management that may or may not prove to be correct. No forward-looking statement is a guarantee of future results, performance, or achievements, and one should avoid placing undue reliance on such statements. Except as otherwise indicated, this presentation speaks as of the date of this presentation. We undertake no obligation to update any forward-looking statements, whether as a result of new information, future events or otherwise, except as required by law.

This presentation also contains estimates, projections, and/or other information regarding our industry, our business and the markets for certain of our product candidates, including data regarding the estimated size of those markets, and the incidence and prevalence of certain medical conditions. Unless otherwise expressly stated, we obtained this industry, business, market and other data from reports, research surveys, clinical trials, studies and similar data prepared by market research firms and other third parties, from industry, medical and general publications, and from government data and similar sources. Information that is based on estimates, forecasts, projections, market research, or similar methodologies is inherently subject to uncertainties and actual events or circumstances may differ materially from events and circumstances reflected in this information.

ARCALYST is a registered trademark of Regeneron Pharmaceuticals, Inc. All other trademarks are the property of their respective owners.



Portfolio of Immune-Modulating Assets

PROGRAM & TARGET	PRECLINICAL	PHASE 1	PHASE 2	PHASE 3	COMMERCIAL	KINIKSA RIGHTS
ARCALYST® (rilonacept) ^{1,2} IL-1α & IL-1β	RECURRENT PERICARDITIS					Worldwide⁵ (Excluding MENA)
	CRYOPYRIN-ASSOCIATED PERIODIC SYNDROMES (CAPS)					
	DEFICIENCY OF THE INTERLEUKIN-1 RECEPTOR ANTAGONIST (DIRA)					
KPL-404 CD40	RHEUMATOID ARTHRITIS					Worldwide
Mavrilimumab⁴ GM-CSFRα	EVALUATING DEVELOPMENT IN RARE CARDIOVASCULAR DISEASES					Worldwide⁵

LICENSE AGREEMENT **Vixarelimab** **Roche and Genentech** **OSMRβ** **GLOBAL RIGHTS FOR ALL INDICATIONS³**



1) Approved in the U.S.; 2) The FDA granted Breakthrough Therapy designation to ARCALYST for recurrent pericarditis in 2019; the FDA granted Orphan Drug exclusivity to ARCALYST in March 2021 for the treatment of recurrent pericarditis and reduction in risk of recurrence in adults and pediatric patients 12 years and older. The European Commission granted Orphan Drug designation to ARCALYST for the treatment of idiopathic pericarditis in 2020; 3) In September 2022, Kiniksa granted Genentech and Roche exclusive global rights to develop and commercialize vixarelimab; 4) Phase 2 clinical trials of mavrilimumab in rheumatoid arthritis and giant cell arteritis achieved their primary and secondary endpoints with statistical significance; 5) Kiniksa granted Huadong Medicine exclusive rights in the Asia Pacific Region, excluding Japan; IL-1α = interleukin-1α ; IL-1β = interleukin-1β; GM-CSFRα = granulocyte macrophage colony stimulating factor receptor alpha; OSMRβ = oncostatin M receptor beta; MENA = Middle East and North Africa

Strategic Collaboration with Huadong Medicine for Asia Pacific Region

- Collaboration to develop and commercialize ARCALYST and mavrilimumab in the Asia Pacific Region (excluding Japan).
- Kiniksa received \$22 million upfront and is eligible to receive up to approximately \$640 million in specified development, regulatory and sales-based milestones.
 - The upfront payment included \$12 million for the territory license of ARCALYST and \$10 million for the territory license of mavrilimumab.
- Kiniksa could also receive tiered royalties ranging from the low-teens to the low-twenties on annual net sales.
- Kiniksa retains all existing development and commercialization rights for both assets outside of the Asia Pacific Region.

Accelerating our ability to bring multiple therapeutics to patients suffering from severe autoimmune and inflammatory diseases across the Asia Pacific Region

Collaboration provides non-dilutive capital and additional resources to help accelerate our development and commercialization efforts



License Agreement with Genentech for Global Rights to Develop and Commercialize Vixarelimab

- Kiniksa to receive \$100 million in upfront and near-term payments:
 - \$80 million, which was received within 30 days of the transaction's closing
 - \$20 million, which is to be received within 30 days of Kiniksa's delivery of certain drug supplies to Genentech
- Kiniksa is eligible to receive up to approximately \$600 million in certain clinical, regulatory, and sales-based milestones, before fulfilling upstream financial obligations.
- Kiniksa is also eligible to receive royalties on annual net sales ranging from low-double digits to mid-teens, before fulfilling upstream financial obligations.

\$100 million in non-dilutive proceeds from the transaction to advance synergistic cardiovascular opportunities



ARCALYST®

Arcalyst
(rilonacept) For Injection

IL-1 α AND IL-1 β CYTOKINE TRAP

DISEASE AREA: Recurrent pericarditis¹; painful and debilitating auto-inflammatory cardiovascular disease

COMPETITION²: First and only FDA-approved therapy for recurrent pericarditis

REGULATORY: U.S. Orphan Drug exclusivity for treatment of and reduction in risk of recurrence of recurrent pericarditis; European Commission Orphan Drug designation in idiopathic pericarditis

STATUS: FDA-Approved

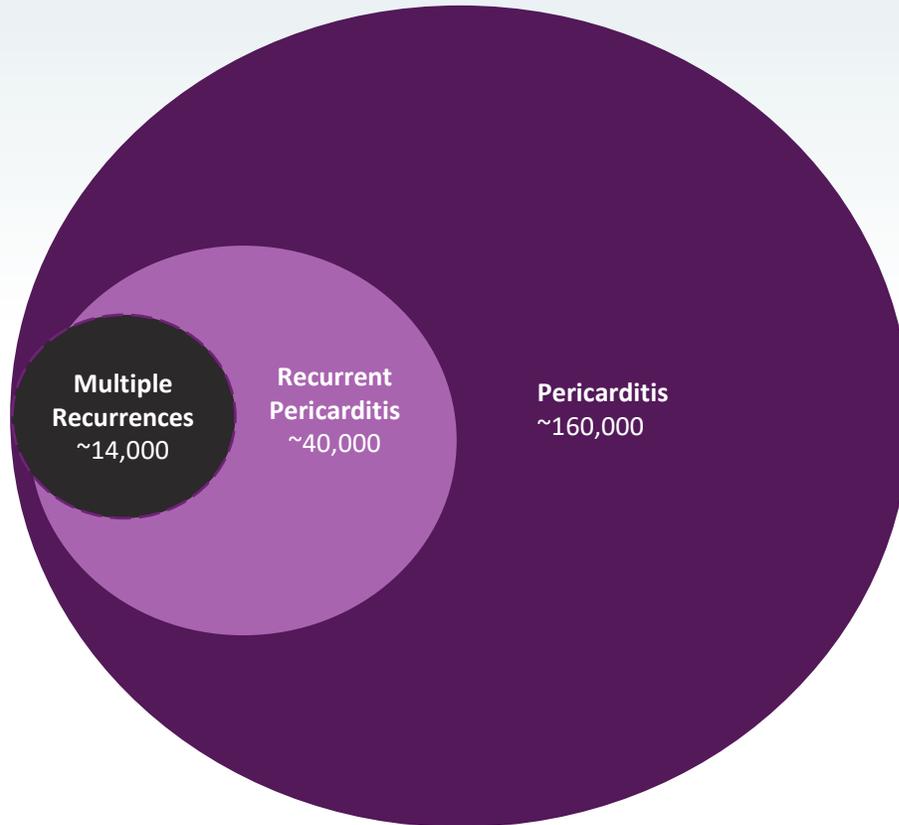
ECONOMICS: 50/50 split on profit and third-party proceeds

RIGHTS: Kiniksa has worldwide rights³ (excluding MENA) for all indications outside those in oncology and local administration to the eye or ear



1) ARCALYST is also approved and marketed for Cryopyrin-Associated Periodic Syndromes (CAPS) and maintenance of remission of Deficiency of Interleukin-1 Receptor Antagonist (DIRA) in the United States;
2) Drugs@FDA: ARCALYST Prescribing Information, Ilaris Prescribing Information, Kineret Prescribing Information; Kaiser et al. Rheumatol Int (2012) 32:295–299; Theodoropoulou et al. Pediatric Rheumatology 2015, 13(Suppl 1):P155; Fleischmann et al, 2017 ACR/ARHP Abstract 1196; Kosloski et al, J of Clin Pharm 2016, 56 (12) 1582-1590; Cohen et al. Arthritis Research & Therapy 2011, 13:R125; Cardiel et al. Arthritis Research & Therapy 2010, 12:R192; Hong et al. Lancet Oncol 2014, 15: 656-666; 3) Kiniksa granted Huadong Medicine exclusive rights in the Asia Pacific Region, excluding Japan;
IL-1 α = interleukin-1 α ; IL-1 β = interleukin-1 β ; MENA = Middle East North Africa

Pericarditis Epidemiology



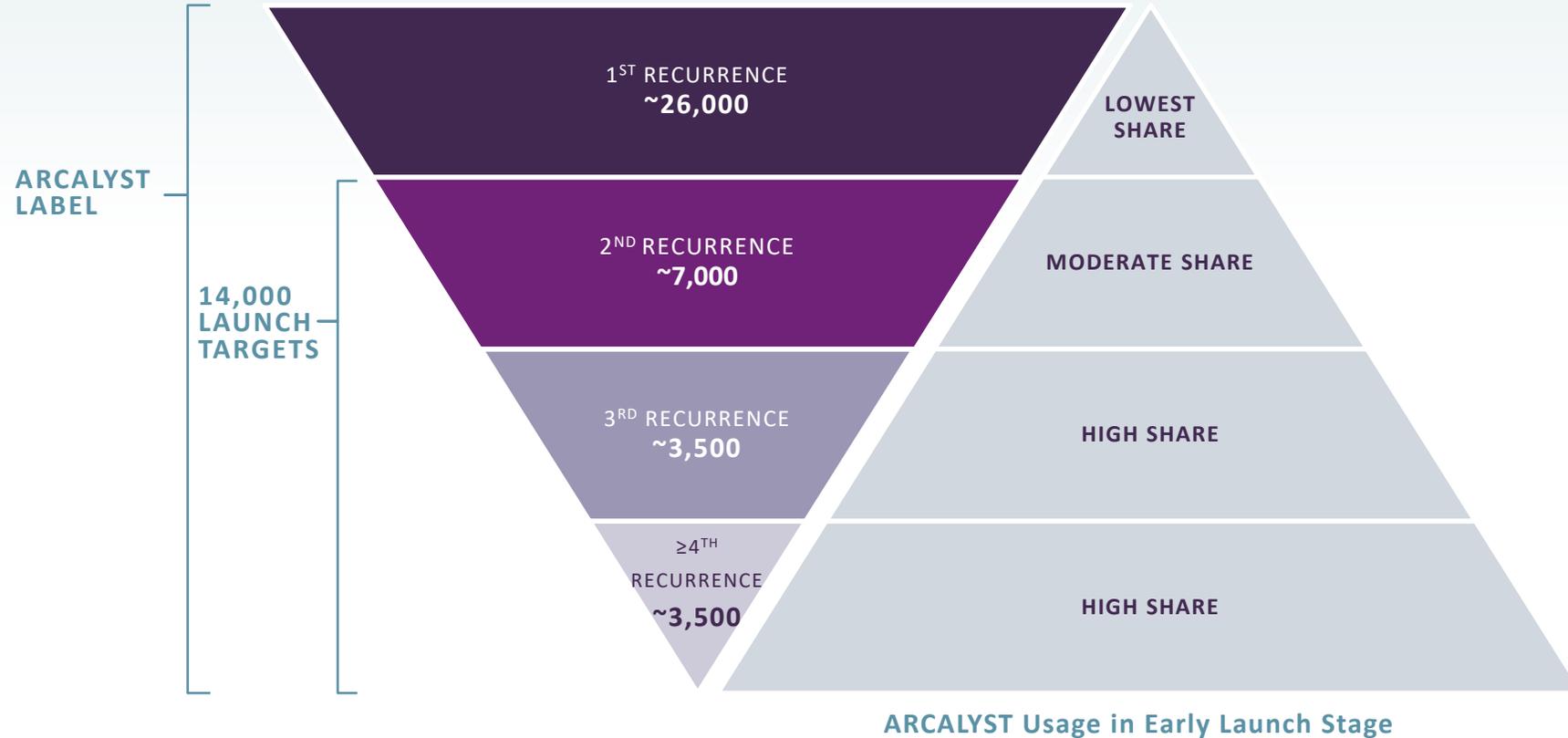
All figures annual period prevalence

Approximately 14,000 recurrent pericarditis patients in the U.S. suffer from persistent underlying disease, with multiple recurrences and inadequate response to conventional therapy¹

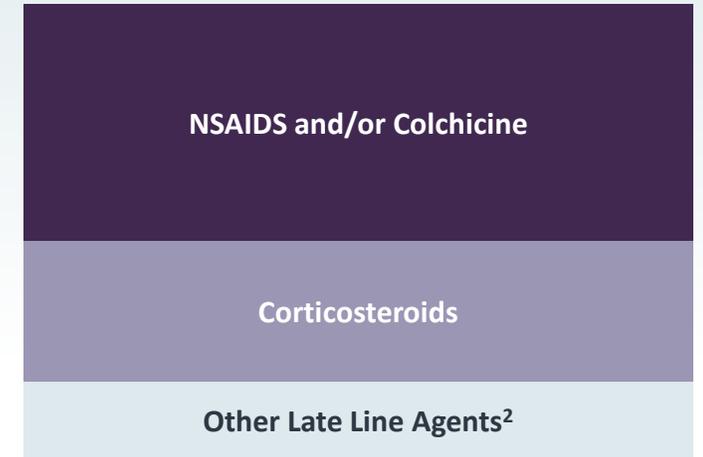
- **~ 160,000:** Epidemiological analysis using large national surveillance databases to calculate the pooled annualized prevalence of pericarditis (***Basis for Orphan Drug Designation approval***)²
- **~40,000:** Up to 30% experience at least one recurrence; some recur over multiple years^{6,7}
- **~14,000:** Nearly 50% annual turnover with ~7,000 patients coming into the pool each year⁸

Early Treated Patients Are Closely Associated to the Launch Target Population, While Prescribers Can Utilize ARCALYST Earlier in the Disease

Recurrent Pericarditis Annual Epidemiology: ~40,000



ARCALYST PATIENTS BY PRIOR PRODUCT¹



ARCALYST PATIENTS BY FLARE STATUS @ INITIATION¹



Klein A, Cremer P, Kontzias A, Furqan M, Tubman R, Roy M, Magestro M. Annals of Epidemiology. 2019;36:71; 2) Lin D, Majeski C, DerSarkissian M, Magestro M, Cavanaugh C, Laliberte F, Lejune D, Mahendran M, Duh M, Klein A, Cremer P, Kontzias A, Furqan M, Tubman R, Roy M, Mage. (Nov, 2019). Real-World Clinical Characteristics and Recurrence Burden of Patients Diagnosed with Recurrent Pericarditis in the United States. Poster session presented at the American Heart Association, Philadelphia, PA.; 3) ClearView Forecasting Analysis 2019 Q1

Source: 1) Kiniksa Pharmaceuticals data on file 2021. 2) Other late line agents include anakinra, azathioprine, methotrexate

Collaborative Field Force to Drive Awareness, Overcome Access Barriers and Help Ensure Positive Patient and Physician Experience



SALES

CLINICAL SALES SPECIALISTS

- **Focus:** ~2500 HCPs across ~800 accounts
- **Responsibility:** Physician accounts, disease education, ARCALYST promotion, account and territory plans, speaker program planning

PAYER

STRATEGIC ACCOUNTS

- **Focus:** ~350 payers and 5 Specialty Pharmacies
- **Responsibility:** Payer/specialty pharmacy relationship, strategic account planning, support sales team

MEDICAL

MEDICAL SCIENCE LIAISONS

- **Focus:** Subject Matter Experts and HCPs
- **Responsibility:** Disease awareness, data dissemination, advocacy development, account and payer support, speaker management

PATIENT
ACCESS

KINIKSA ONECONNECT™ PROGRAM

- **Focus:** Patients and caregivers, HCPs seeking reimbursement support for their patients
- **Responsibility:** Optimize patient and customer experience with ARCALYST and Kiniksa, provide seamless initiation, reimbursement, and adherence support



HCP = health care provider

Pricing, Access and Distribution Considerations

Pricing

- ARCALYST list price of \$20,700 per month
Based on first and only FDA-approved therapy for recurrent pericarditis, in-line with specialty biologics with Breakthrough Therapy and Orphan Drug designation
- Helping to ensure **patient affordability** and access to treatment is one of our core principles and to this end, we offer a suite of programs to support affordability to eligible patients who are prescribed ARCALYST

Access

- Kiniksa's goal is to enable rapid and broad access to ARCALYST for patients with Recurrent Pericarditis, CAPS, and DIRA
- Payer mix for ARCALYST is largely **commercial (~70%), Medicare (~20%), Medicaid (~10%)**
- Payer engagement has increased awareness of recurrent pericarditis and the differentiated value of ARCALYST
- The **Kiniksa OneConnect™** program is a personalized treatment support program for patients prescribed ARCALYST

Distribution

- ARCALYST is distributed **through a closed network of designated specialty pharmacies and the Veterans Affairs**
- The distribution network for ARCALYST was developed to provide a high and consistent level of patient support with broad access. Network pharmacies provide customized services to support patients

Continued Execution Resulting in Steady ARCALYST Growth in Q3 2022; On-Track for Annual Guidance of \$115-130M Net Revenue

Net Revenue

- ARCALYST net revenue for Q3 2022 was \$33.4 million
- Represents ~24%, or \$6.4M growth versus Q2 2022
- Continued collaboration profitability for the ARCALYST franchise

*\$33.4 million in net revenue for the **third quarter of 2022***

Revenue Drivers

- Recurrent Pericarditis continues as the primary growth lever, driven by new patient initiations
- CAPS and DIRA patient demand remained stable and broadly consistent with the previous quarters.
- Growth rate represents continued uptake and adoption of ARCALYST from prescribers, payers and patients in this previously unmet and debilitating autoinflammatory cardiovascular disease.

*\$82.6 million net revenue **year to date***

Maintaining 2022 guidance of \$115-130 million net revenue



Drivers of Continued ARCALYST Growth in Recurrent Pericarditis

Physician Growth

- Steady growth of prescriber base with greater than 650 HCPs having prescribed ARCALYST since launch
- Growing repeat prescriber base with 22% having prescribed ARCALYST for 2 or more patients

Payer Access

- In Q3, payers continued to recognize the value of the first and only approved drug for recurrent pericarditis, with greater than 90% approval rate of completed cases

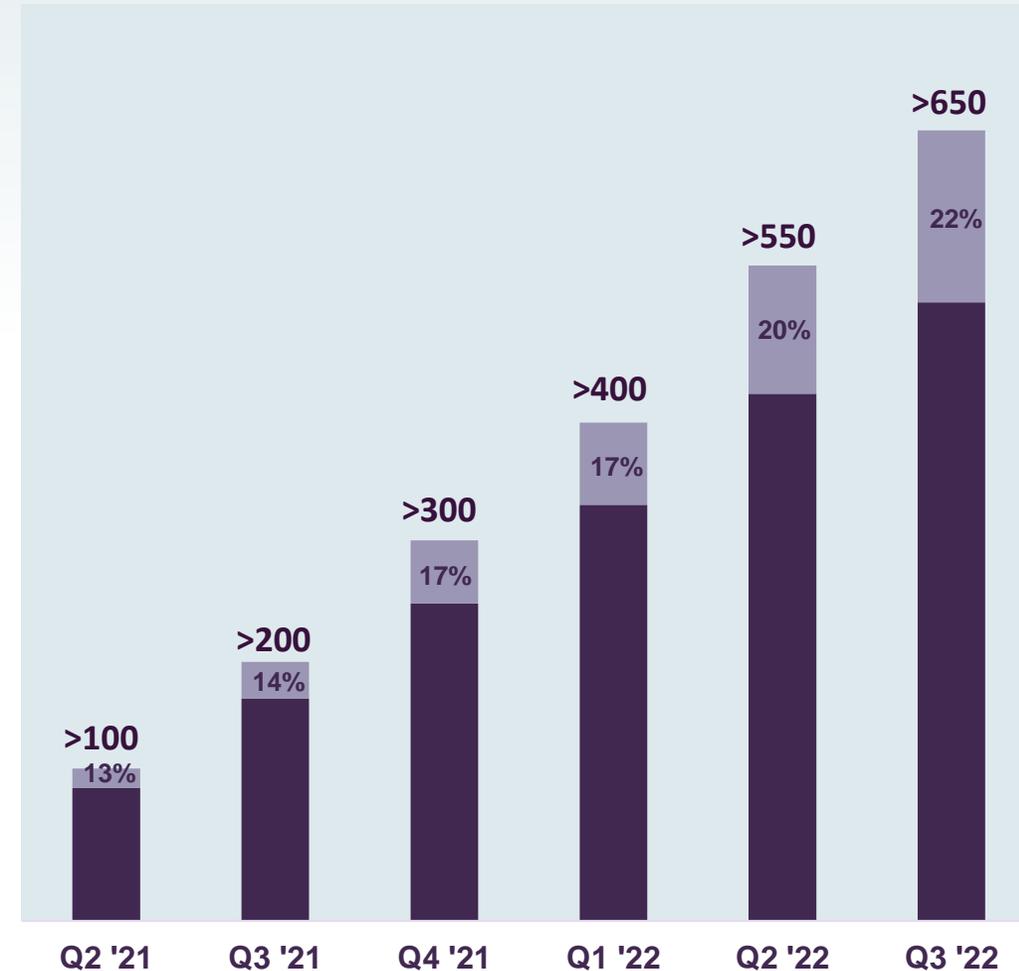
Duration of Therapy

- As of the end of Q3, average duration of initial therapy in the commercial setting was approximately 12 months¹

Patient Restarts

- ~35% of all patients who stop treatment of ARCALYST restart therapy, indicating the need for longer duration of therapy to cover the natural history of the disease

Total and Repeat Prescriber Growth per Quarter



■ Prescribers with ≥2 Recurrent Pericarditis Enrollments
 ■ Prescribers with 1 Recurrent Pericarditis Enrollment



¹ Initial continuous therapy is determined to have ended if greater than 28 days elapses beyond the exhaustion date of a patient's most recent days supplied without an observed refill of ARCALYST.

Field Force Expansion to Accelerate Penetration of US Addressable Market

Field Force Effectiveness

- Physicians who meet with our field team have a significantly higher awareness of recurrent pericarditis and ARCALYST
- Additionally, the intention to prescribe ARCALYST also increases significantly

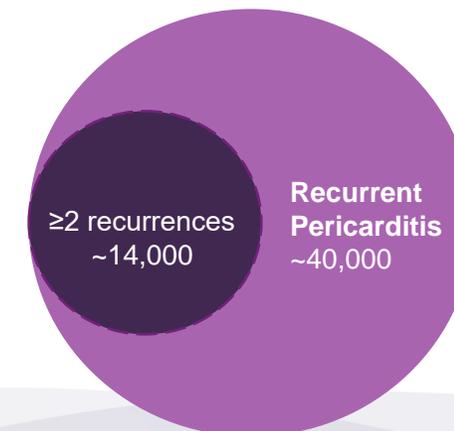
Opportunity in our Target Population

- Targeting the annual target pool of 14K patients with 2 or more recurrences, acknowledging ARCALYST's broad label could grow the pool in appropriate patients on the first recurrence
- With only a few specialist pericardial disease centers, patients are widely dissipated across the US and often present to different cardiologists even in the same institution compared to their prior flare(s)
- Frequent call activity is a major driver of prescriber understanding of disease burden and ARCALYST adoption
- Growing confidence in our launch trajectory and a profitable collaboration allows us to expand our field team to enable us to reach patients quicker

EXPECTATION OF ARCALYST PRESCRIBING OVER NEXT 6 MONTHS¹



14,000 TARGET PATIENTS WITH UPSIDE IN FIRST RECURRENCE POOL



All figures annual period prevalence



1: Among Cardiologists. Data on file.

Field Evolution to Create Greater Reach and Frequency with Top Tier Doctors as well as Reach to a Broader Set of Physicians

Field Launch Strategy

LEAN TEAM WITH FOCUSED & TARGETED EXECUTION

~30 Specialty Cardiology Reps

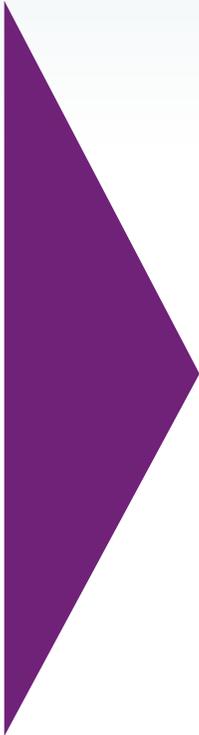
Initial launch focus on top tier accounts:

~3,300 individual prescribers

~45% of RP patients nationally



Following adoption, moving into next deciles



Strategy Evolution

EXPANDED TEAM CREATING GREATER REACH AND FREQUENCY

~50 Specialty Cardiology Reps

Increased focus within top tier accounts as well as expanded reach at mid tier prescribers, reaching:

~6,000 top and mid tier prescribers

~70% of RP patients nationally

Plus, supplemented by a small Inside Sales Team as a cost-efficient approach to reaching lower decile physicians



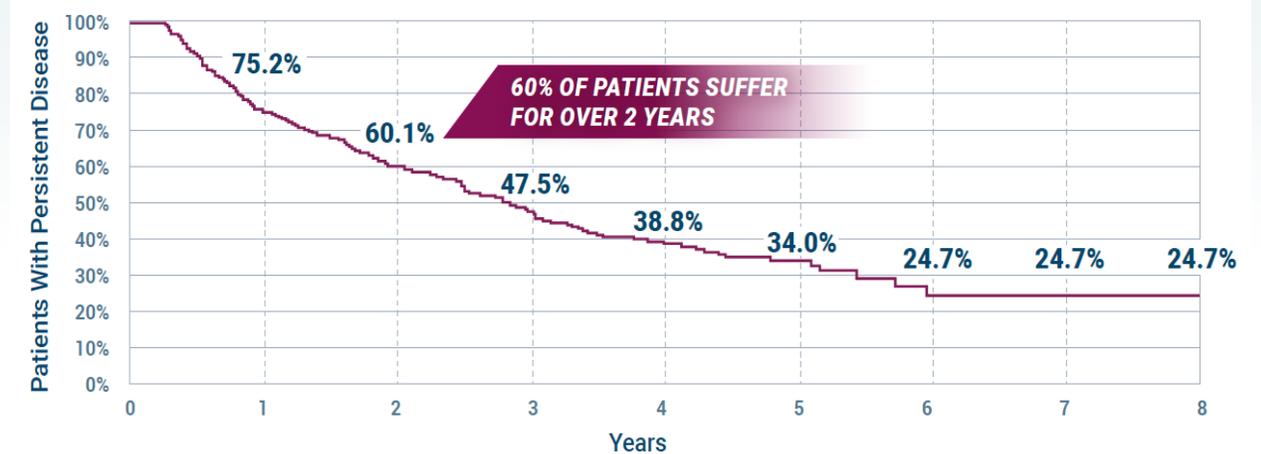
Evolved field team will be in place in Q4 2022

Considerations for the Duration of ARCALYST Treatment

RECURRENT PERICARDITIS THOUGHT LEADER POSITIONING OF ARCALYST IN TREATMENT ALGORITHM¹

Acute Pericarditis	Index Episode	<ul style="list-style-type: none"> NSAIDs (week(s)) Colchicine (3 months)
Recurrent Pericarditis	First Recurrence	<ul style="list-style-type: none"> NSAIDs (weeks to months) Colchicine (≥6 months)
	Second (or more) Recurrence	<ul style="list-style-type: none"> ARCALYST (rilonacept), including ahead of corticosteroids and other drugs if intolerant
Additionally	<ul style="list-style-type: none"> ARCALYST can be used in colchicine resistant and/or corticosteroid dependent patients, including while tapering down steroids and other agents 	

MOST PATIENTS WITH MULTIPLE RECURRENCES SUFFER FOR AT LEAST 2 YEARS²



Data from Optum Health Care Solutions, Inc., collected from January 1, 2007, through March 31, 2017, were analyzed for this observational study (N=375 patients with >1 recurrence of RP).

- ARCALYST treatment requires a change in mindset and practice for healthcare professionals compared with durations of traditional, non-specific therapies used for recurrent pericarditis
- The majority (60%) of patients with multiple recurrences of recurrent pericarditis have a disease duration of at least 2 years²
- In the Phase 3 study RHAPSODY, ARCALYST has been proven to prevent recurrences as long as there are no interruptions in therapy^{3,4}
- Patients have been treated with ARCALYST over the long term⁵



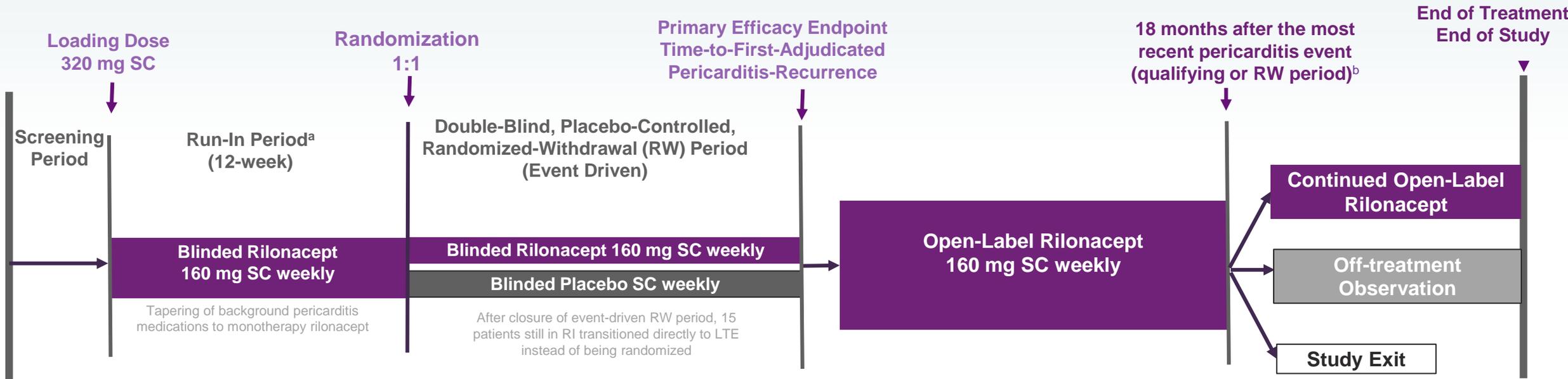
1) Wang and Klein. Current Cardiology Reports (2022) 24:23-30. <https://doi.org/10.1007/s11886-021-01621-0>; 2) Lin D, Laliberté F, Majeski C, et al. Disease and economic burden associated with recurrent pericarditis in a privately insured United States population. Adv Ther. 2021;38(10):5127-5143. doi:10.1007/s12325-021-01868-7; 3) ARCALYST. Package insert. Kiniksa Pharmaceuticals (UK), Ltd.; 2021; 4) Klein AL, Imazio M, Cremer P, et al. Phase 3 trial of interleukin-1 trap rilonacept in recurrent pericarditis. N Engl J Med. 2021;384(1):31-41; 5) The median duration of continuous rilonacept therapy for all patients in RHAPSODY, including in the LTE portion of the trial, was 18 months for US patients and 27 months for non-US patients (Imazio M, Klein AL, Abbate A, et al. Prolonged Rilonacept Treatment In Rhapsody Long-term Extension Provided Persistent Reduction Of Pericarditis Recurrence Risk. Circulation 2022; 146 (Suppl_1):A11653

RHAPSODY Design

Event-Driven Pivotal Study

Median rilonacept treatment duration prior to the LTE (RI+RW) was 9 months (range, 3-14)

Long-Term Extension (LTE) (up to 24 months)



^a The duration of the run-in period was concealed from patients, so that they were blinded to the timing of randomization

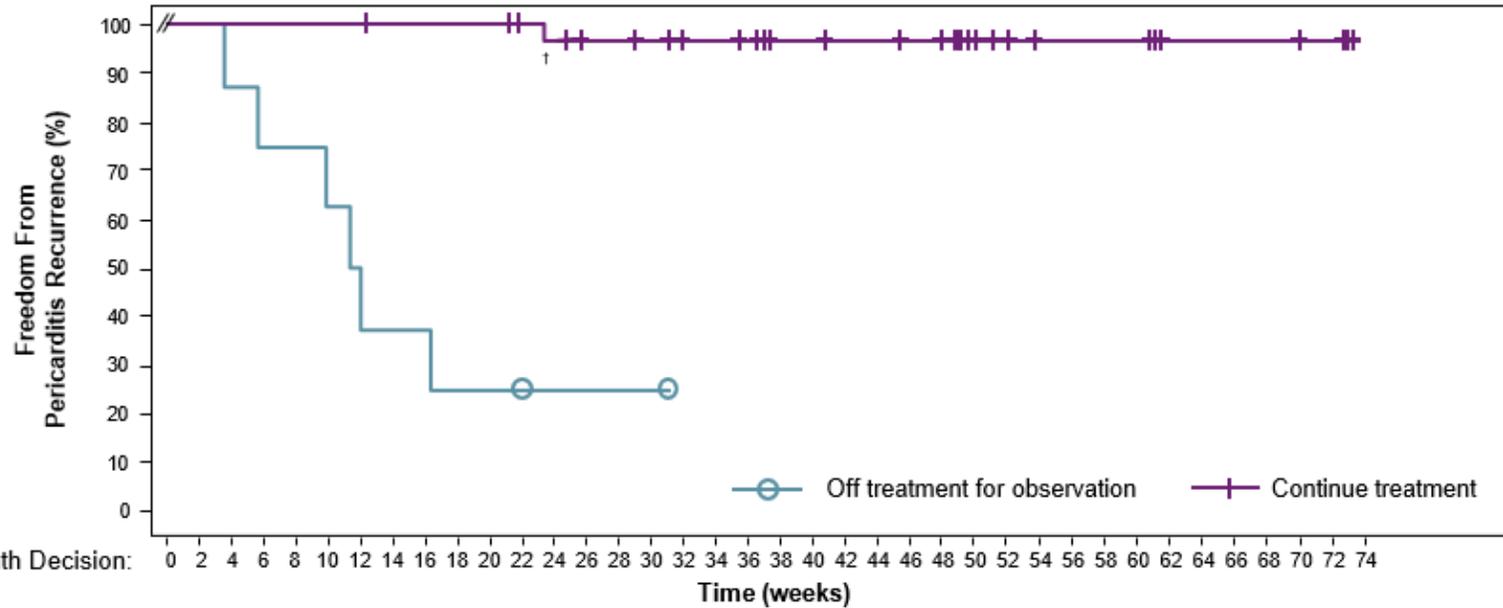
^b For each patient in the LTE, a decision was made 18 months after the most recent pericarditis recurrence (Qualifying or RW period) based on clinical status and one of the following actions was taken at the investigator's discretion:

- Continue rilonacept on-study
- OR
- Suspend rilonacept treatment and remain on-study for observation (rilonacept rescue for recurrence allowed)
- OR
- Discontinue the LTE completely (no further observation)



Adapted from: Imazio M, Klein AL, et al. Prolonged Rilonacept Treatment in Rhapsody Long-term Extension Provided Persistent Reduction of Pericarditis Recurrence Risk. Poster 2223 (Presented at AHA Scientific Sessions 2022)

RHAPSODY Long-Term Extension Data Demonstrated Rilonacept Treatment Beyond 18 months Resulted in Continued Treatment Response¹



Hazard ratio = 0.02
Log-rank $P < 0.0001$
Risk reduction = 98%

	N	Patients with Recurrence, ^a n (%)	Weeks to Recurrence, ^a Median (95% CI)
Continued rilonacept treatment	33	1 (3)	NE (NE-NE)
Off treatment for observation	8	6 (75)	11.8 (3.7-NE)

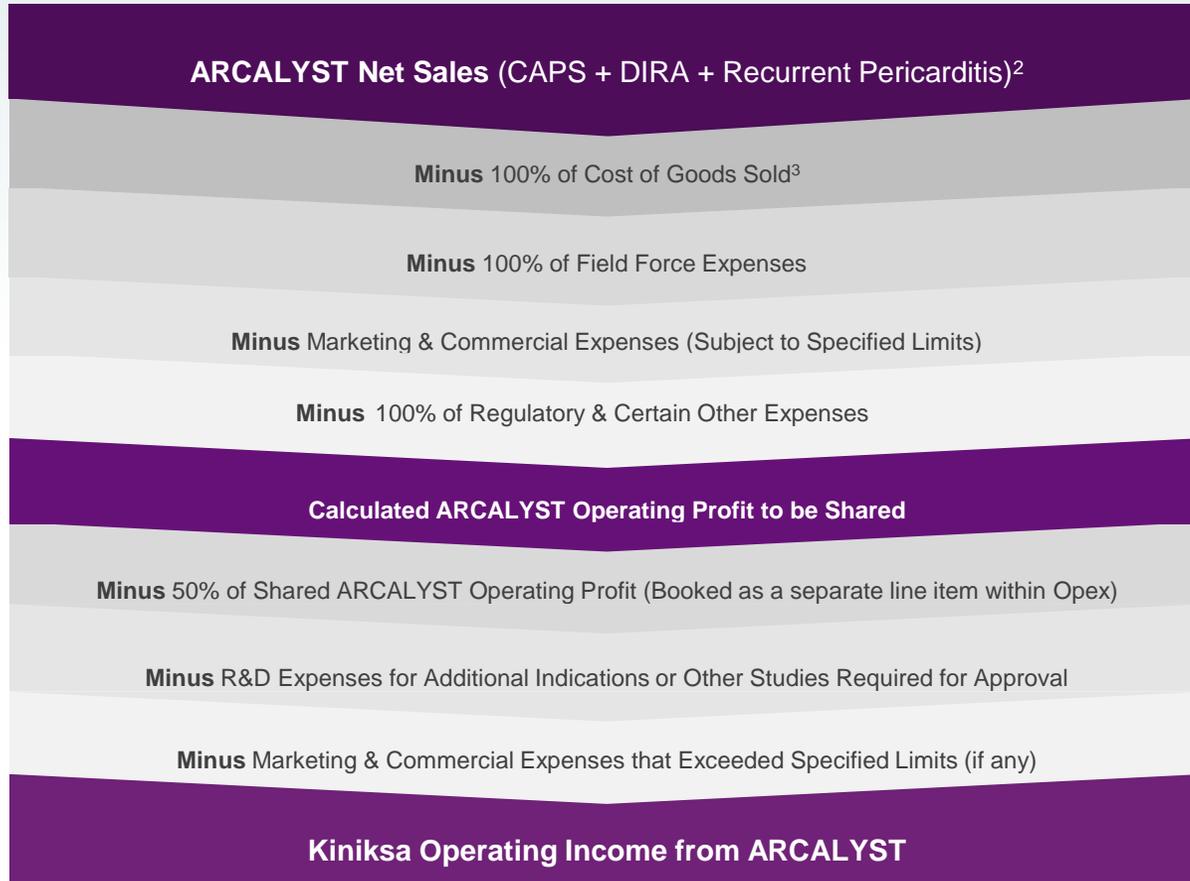
^aAfter 18-month decision. CI, confidence interval; NE, not estimable.

Continued Rilonacept Treatment, Patients at Risk, n	33	33	33	33	33	33	33	32	32	32	32	30	29	27	27	25	24	23	22	18	18	17	17	16	16	11	9	7	7	7	7	4	4	4	4	4	3	0		
Off Treatment for Observation, Patients at Risk, n	8	8	7	6	6	6	4	3	3	2	2	2	1	1	1	1	0																							

[†]The patient with a recurrence at 23.4 weeks had interrupted rilonacept treatment ~4 weeks prior.



Summary of ARCALYST Profit Share Arrangement with Regeneron¹



- Kiniksa is responsible for sales and distribution of ARCALYST in all approved indications in the United States.
- Kiniksa's license to ARCALYST includes worldwide rights, excluding the Middle East and North Africa, for all applications other than those in oncology and local administration to the eye or ear.
- Kiniksa covers 100% of development expenses related to approval of additional indications.
- We evenly split profits on sales with Regeneron



1) Subject to description contained in definitive agreement; 2) Global net sales for CAPS, DIRA and recurrent pericarditis recognized as revenue on Kiniksa's income statement; 3) Including cost of product purchased from Regeneron as well as relevant Kiniksa overhead; CAPS = Cryopyrin-Associated Periodic Syndromes; DIRA = Deficiency of the Interleukin-1 Receptor Antagonist

KPL-404

MONOCLONAL ANTIBODY INHIBITOR INTERACTION BETWEEN CD40 AND CD154

DISEASE AREA: Rheumatoid Arthritis; a chronic inflammatory disorder affecting many joints; External proof-of-concept previously established in broad range of autoimmune diseases: Sjogren's disease, systemic lupus, solid organ transplant and Graves' disease¹

SCIENTIFIC RATIONALE^{2,3}: Attractive target for blocking T-cell dependent, B-cell-mediated autoimmunity

STATUS: Phase 2 proof-of-concept study of chronic subcutaneous administration ongoing; data expected in 1H24

ECONOMICS: Negligible clinical and regulatory milestones and royalty on annual net sales

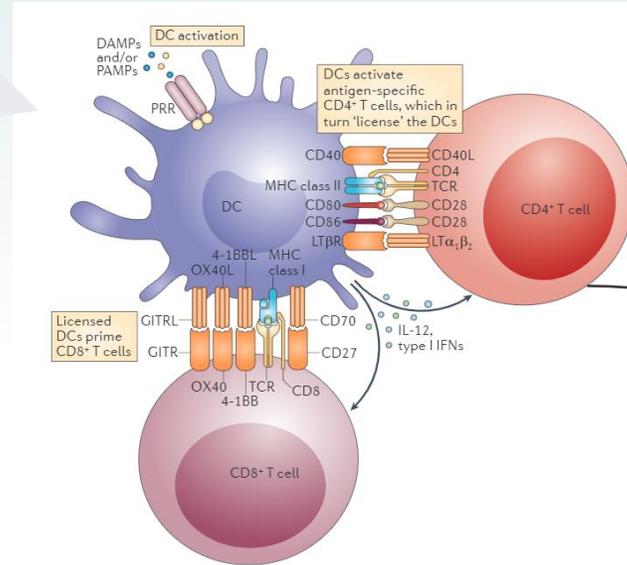
RIGHTS: Worldwide



1) Poster presentation at the Keystone Symposia: Antibodies as Drugs: New Horizons in the Therapeutic Use of Engineered Antibodies: KPL-404, a CD40 antagonist, blocked antigen-specific antibody responses in an in vivo NHP model and demonstrated strong PK/PD correlation; 2) Elgueta, et al. Immunol Rev 2009, 229 (1), 152-172; 3) Peters, et al. Semin Immunol 2009, 21 (5) 293-300; RO = receptor occupancy; TDAR = T-cell Dependent Antibody Response

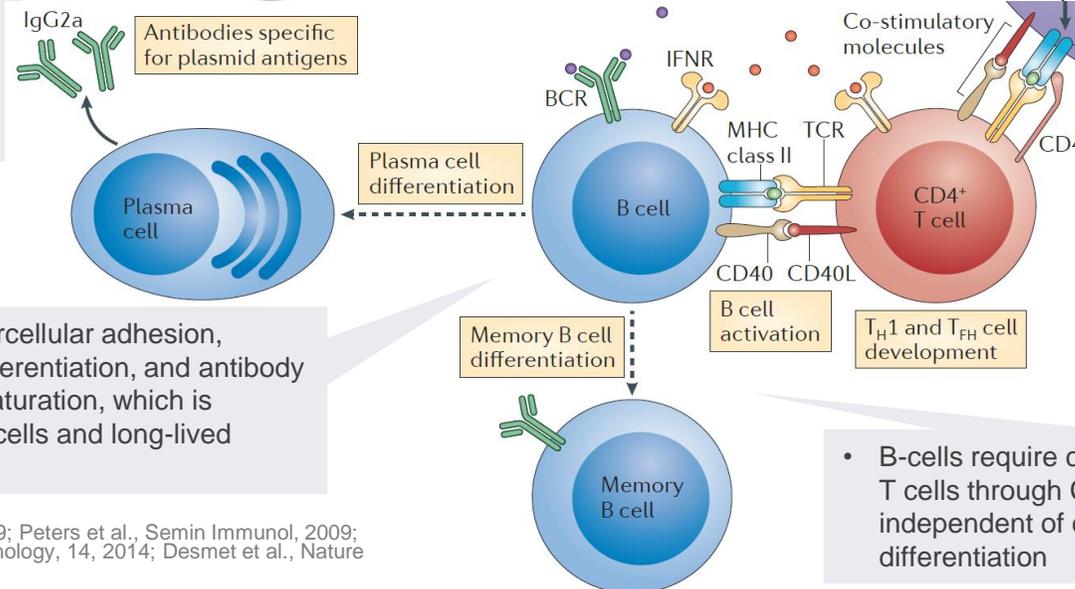
CD40/CD154 is an Essential Immune Pathway for T-Cell Priming and T-Cell Dependent B-Cell Responses

- CD40 is expressed on the surface of dendritic cells, B-cells, antigen-presenting cells and non-immune cell types
- Its ligand, CD40L (CD154), is expressed by activated T-cells, platelets, and other cell types



- CD40 ligation on DCs induces cell maturation by promoting antigen presentation and enhancing their costimulatory activity
- Mature DCs stimulate activated T-cells to increase IL-2 production that facilitates T-helper cells (Th) and cytolytic T-Lymphocyte (CTL) expansion
- CD40-stimulated DCs also secrete cytokines favoring Th1 cell differentiation and promoting Th cell migration to sites of inflammation
- CD40 ligation also provides a pro-inflammatory signal within the mononuclear phagocyte system

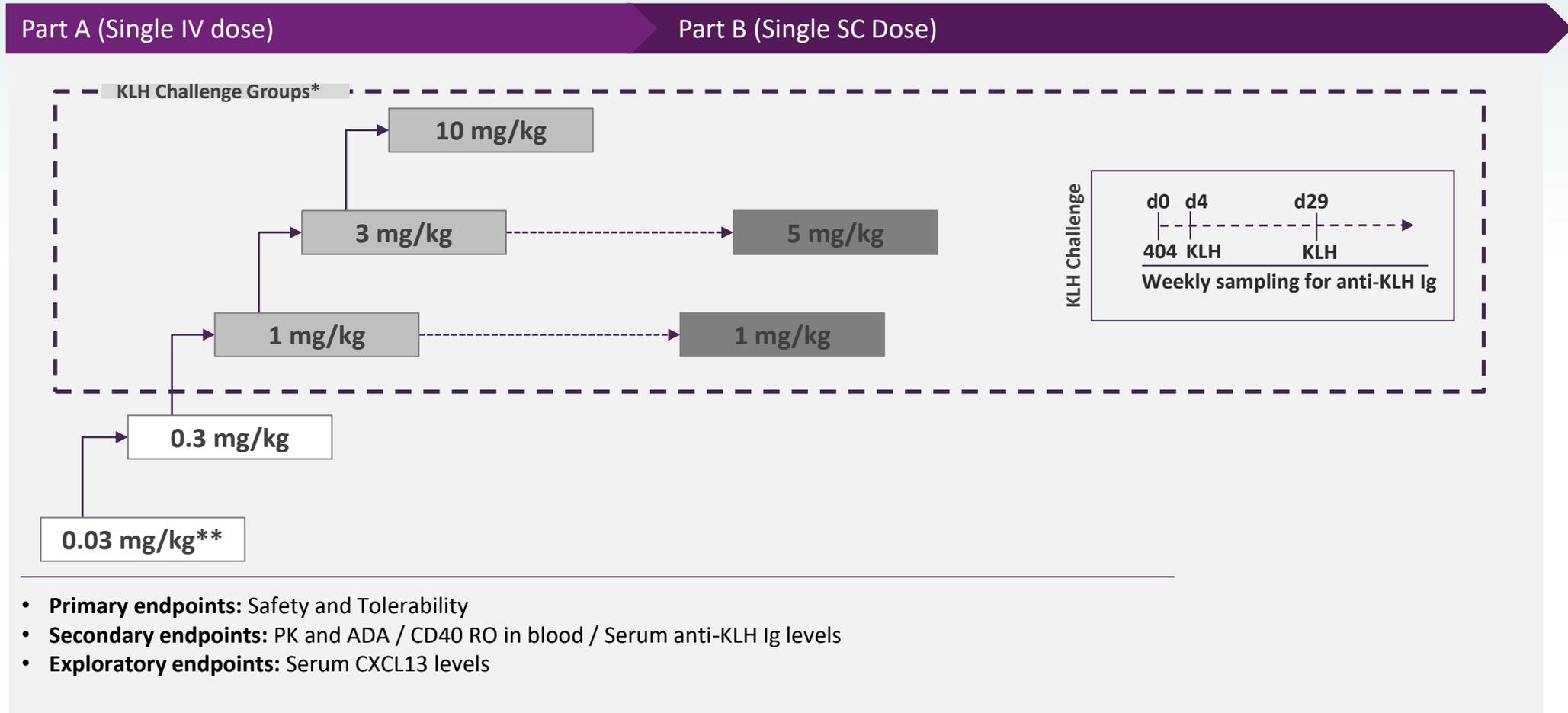
- Humoral immunity is dependent on a thriving B cell population and activation by Th cells; blockade of CD40/CD40L interaction has been shown to completely ablate primary and secondary TDAR response



- CD40 engagement triggers B-cell intercellular adhesion, sustained proliferation, expansion, differentiation, and antibody isotype switching leading to affinity maturation, which is essential for generation of memory B cells and long-lived plasma cells

- B-cells require contact-dependent stimulus from T cells through CD40/CD40L interaction independent of cytokines to trigger growth and differentiation

KPL-404 Single-Ascending-Dose Phase 1 Study



Notes: Unless otherwise noted dose groups included 6 active/2 placebo subjects; *1° KLH challenge for all SAD dose groups except 0.03 and 0.3 mg/kg, 2° KLH re-challenge only in 1, 3, and 10 mg/kg IV; ** Cohort included 2 active and 2 placebo subjects



Final Data from KPL-404 Single-Ascending-Dose Phase 1 Study

The randomized, double-blind, placebo-controlled first-in-human (FIH) study is designed to investigate the safety, tolerability, PK and PD properties of single-ascending intravenous (IV) and subcutaneous (SC) doses of KPL-404 in healthy subjects.

- 2 single-ascending-dose arms (SAD):
 - Single-dose KPL-404 0.03 mg/kg, 0.3 mg/kg, 1 mg/kg, 3 mg/kg or 10 mg/kg IV and
 - Single-dose KPL-404 1 mg/kg or 5 mg/kg SC

Primary Endpoint: Safety and tolerability of single ascending intravenous (IV) and subcutaneous (SC) doses of KPL-404 in healthy subjects.

- KLH challenge in 1 mg/kg, 3 mg/kg, and 10 mg/kg IV and 1 mg/kg and 5 mg/kg SC cohort

Secondary Endpoints: Pharmacokinetics and anti-drug antibody response following single IV and SC doses of KPL-404 in healthy subjects, serum anti- keyhole limpet hemocyanin (KLH) IgG levels

Exploratory Endpoint: Receptor occupancy of KPL-404 on CD40 in healthy subjects

Preliminary Data:

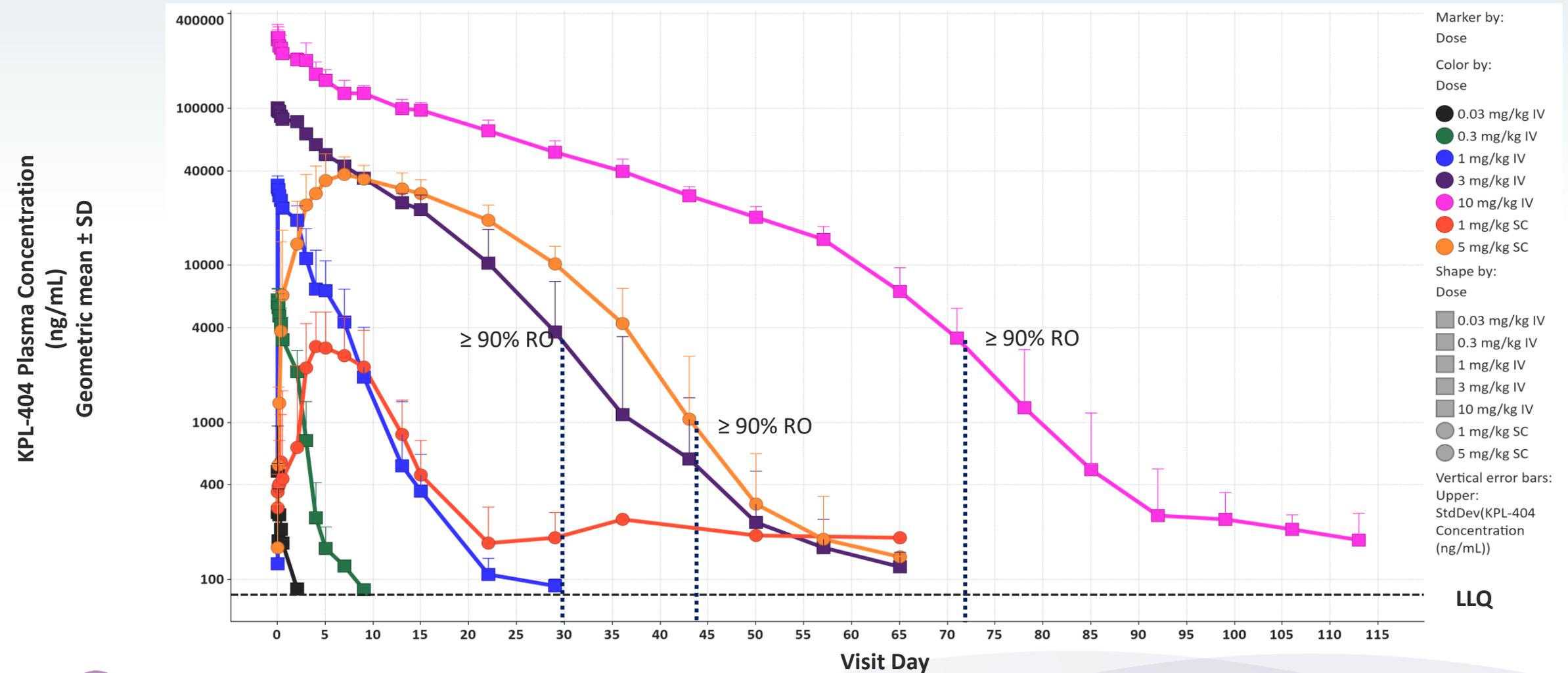
- All dose escalations occurred as per protocol with no dose limiting safety findings. All 6 subjects dosed with KPL-404 3 mg/kg IV showed full receptor occupancy through Day 29, which corresponded with complete suppression of the T-cell Dependent Antibody Response (TDAR) to KLH through Day 29. Consistent dose relatedness was shown in the lower dose level cohorts, including 0.03 mg/kg, 0.3 mg/kg, 1 mg/kg IV and 1 mg/kg SC. Data collection for the higher dose level cohorts, 10 mg/kg IV and 5 mg/kg SC, is ongoing.
- The data to-date support subsequent study in patients, including potential IV or SC monthly administration.

Final Data:

- KPL-404 showed dose-dependent increases in concentration across cohorts. All dose escalations occurred as per protocol with no dose-limiting safety findings.
- KPL-404 was well-tolerated, and there were no serious adverse events.
- Subjects dosed with KPL-404 10 mg/kg IV showed full RO through at least Day 71 and complete suppression of TDAR after KLH challenge and re-challenge through at least Day 57.
- Subjects dosed with KPL-404 5 mg/kg SC showed full RO through Day 43 and suppression of TDAR after KLH challenge through at least Day 29. These data confirm and extend previously-reported 3 mg/kg IV cohort data, in which RO and suppression of TDAR after KLH challenge were demonstrated through Day 29.
- The 3 mg/kg IV dose level had previously demonstrated complete suppression of memory TDAR response to a re-challenge on Day 29.
- Anti-drug antibodies to KPL-404 were suppressed for at least 57 days at 10 mg/kg IV; the suppression of antibody responses to the drug itself is an independent indicator of target engagement and pharmacodynamic effect

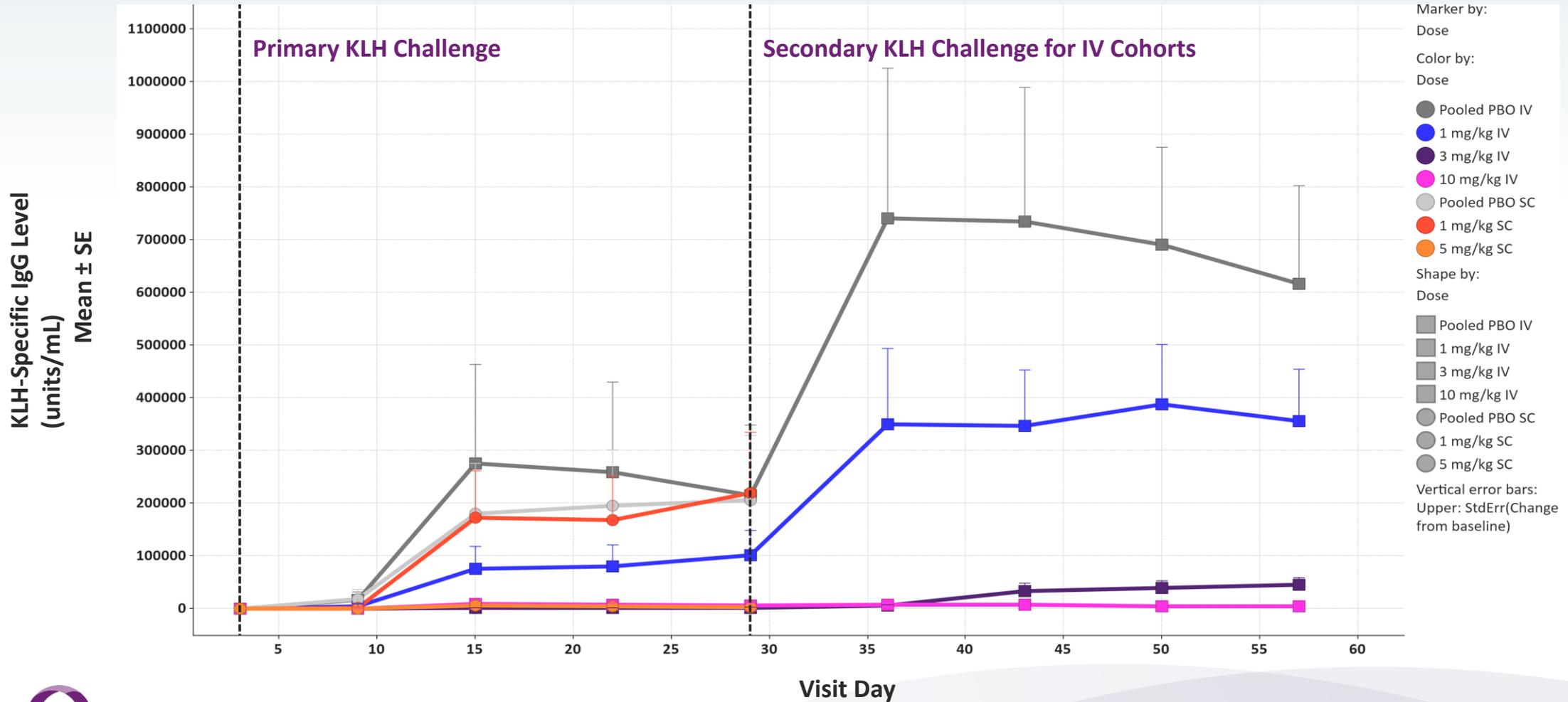
Final Data from KPL-404 Single-Ascending-Dose Phase 1 Study

Pharmacokinetic profiles for KPL-404



Final Data from KPL-404 Single-Ascending-Dose Phase 1 Study

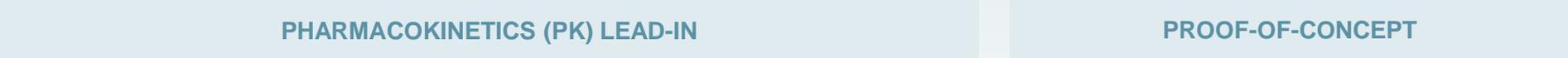
T-Cell Dependent Antibody Response (TDAR) for KLH antigen challenge



KLH = keyhole limpet hemocyanin

KPL-404 Phase 2 Trial in Rheumatoid Arthritis

Designed to provide PK data and early signal of efficacy with chronic (12-week) administration and optionality to evaluate KPL-404 across a range of other autoimmune diseases

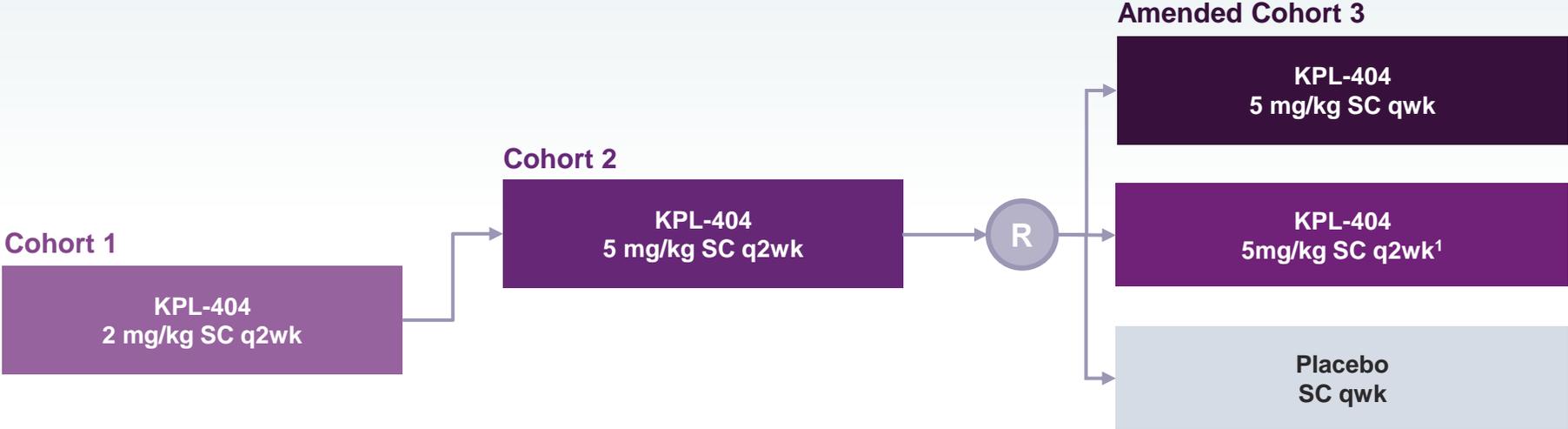


PATIENT POPULATION:

- Active RA who have an inadequate response to or are intolerant to a Janus kinase inhibitor (JAKi) or at least one biologic disease-modifying anti-rheumatic drug (bDMARD). Subjects who have failed both bDMARD and JAKi are excluded from the study.

DISEASE CRITERIA:

- Six or more swollen joints and ≥ 6 tender joints at screening and baseline line visits; levels of high sensitivity C-reactive protein ≥ 5 mg/L; seropositivity for serum RF and/or ACPA at screening.



COHORTS 1-2 (PK Lead-In)

- Each cohort will sequentially randomize 8 patients
- Primary Endpoints:
 - Incidence of treatment-emergent adverse events (TEAEs)
 - Pharmacokinetics (C_{max} , $AUC_{(0-t)}$)
- Secondary Endpoint:
 - Change from baseline in DAS28-CRP at Week 12

AMENDED COHORT 3 (Proof of Concept)

- Cohort 3 will randomize up to 75 patients
- Primary Endpoint:
 - Change from baseline in DAS28-CRP at Week 12
- Secondary Endpoints :
 - Incidence of treatment-emergent adverse events (TEAEs)
 - Pharmacokinetics (C_{max} , $AUC_{(0-t)}$)

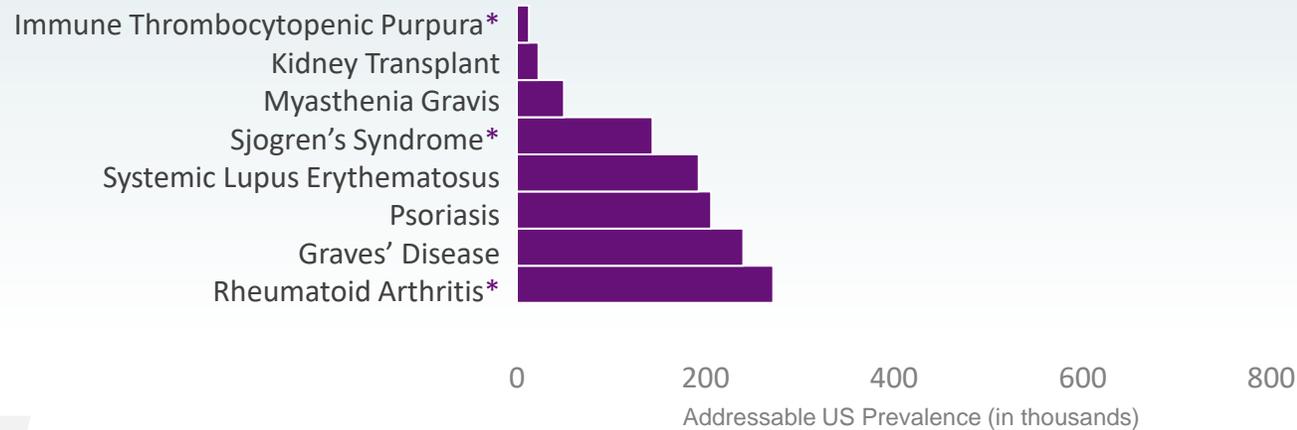
Objectives: Evaluate safety, efficacy, and PD compared with placebo across the estimated therapeutic range and to characterize PK across varying dose levels of KPL-404



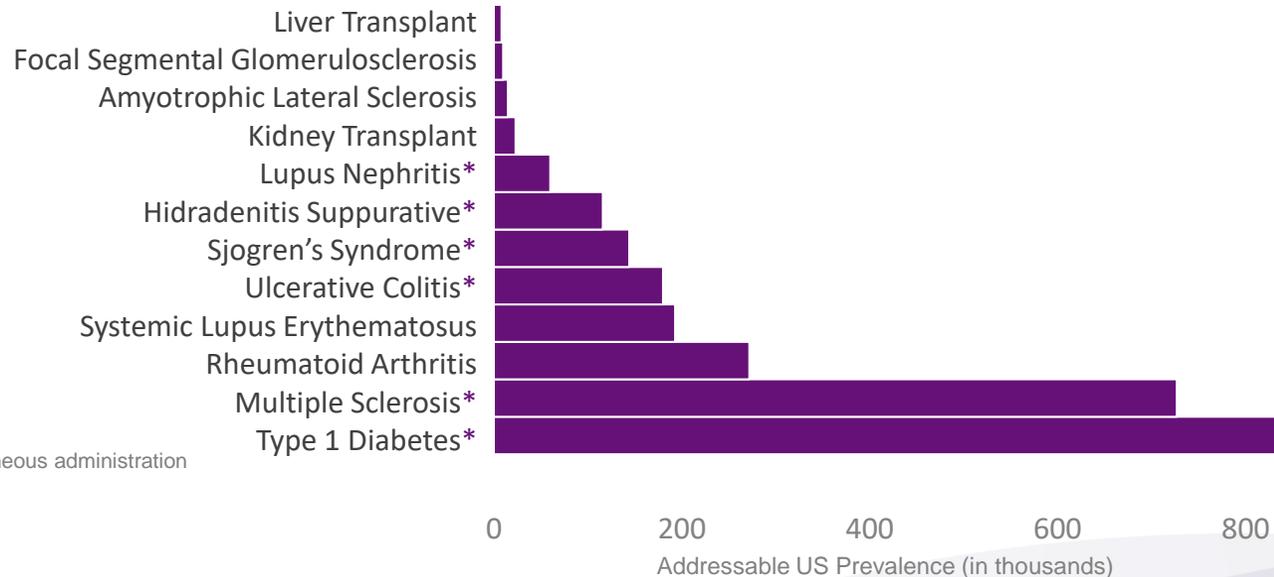
1) The 5 mg/kg SC q2wk group will receive weekly administrations of alternating active investigational product and matching blinded placebo
 SC = subcutaneous; q2wk = every other week; AUC = Area Under the Curve; RF = Rheumatoid Factor; ACPA = anti-citrullinated protein antibodies, PD = Pharmacodynamics;
 PK = Pharmacokinetics; R = Randomization; SRC = Safety Review Committee

Potential for Evaluation of KPL-404 in a Broad Range of Autoimmune Diseases

Indications with Published Data



Indications with Pending Data & Trials Ongoing



INDICATION SELECTION CRITERIA

- Robust Data or proof-of-concept supporting mechanism
- Differentiation vs. Competitors
- Commercial Attractiveness

*Indications evaluated with subcutaneous administration
1) With the CD40 mechanism





Financials

Third Quarter 2022

Third Quarter 2022 Financial Results

Income Statement	Q3 2022	Q3 2021
Product Revenue	\$33.4M	\$12.1M
License and Collaboration Revenue	\$65.7M	\$0.0M
Total Revenue	\$99.1M	\$12.1M
Cost of Goods Sold	\$6.9M	\$2.8M
Collaboration Expenses	\$4.6M	\$0.0M
Research and Development	\$16.5M	\$19.2M
Selling, General and Administrative	\$24.7M	\$20.8M
Total Operating Expenses	\$52.7M	\$42.8M
Income Tax Benefit	\$177.4M	\$0.1M
Net Income (Loss)	\$224.1M	(\$30.5M)
Balance Sheet	September 30, 2022	December 31, 2021
Cash, Cash Equivalents and Short-term Investments	\$200.7M	\$182.2M

Cash reserves expected to fund operations into at least 2025

Third Quarter 2022 Collaboration Expense¹

ARCALYST Net Sales (RP + CAPS + DIRA)	\$33.4M
Cost of Goods Sold Related to Product Sales	(\$6.7M)
Commercial, Marketing, Regulatory and Other Expenses	(\$17.5M)
ARCALYST Operating Profit	\$9.2M
Collaboration Expense	\$4.6M

Recognized as revenue on Kiniksa's income statement

Costs of product purchased as well as relevant overhead; amortization of ARCALYST commercial milestone excluded

100% of field force expense as well as commercial and marketing expenses subject to specified limits

50% of ARCALYST operating profit booked as a separate line item within operating expenses



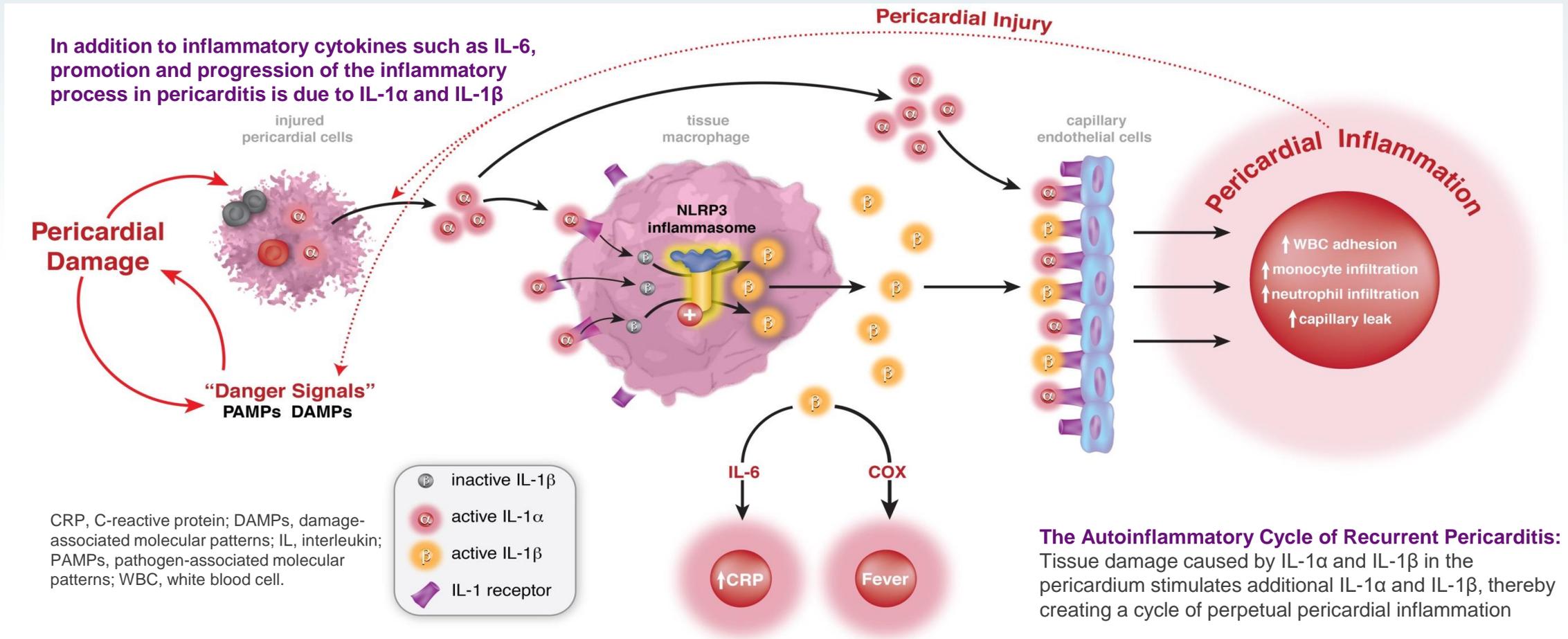
¹) Subject to the terms of the definitive agreements between Kiniksa and Regeneron; RP = Recurrent Pericarditis, CAPS = Cryopyrin-Associated Periodic Syndromes, DIRA = Deficiency of Interleukin-1 Receptor Agonist



Appendix

ARCALYST (rilonacept)

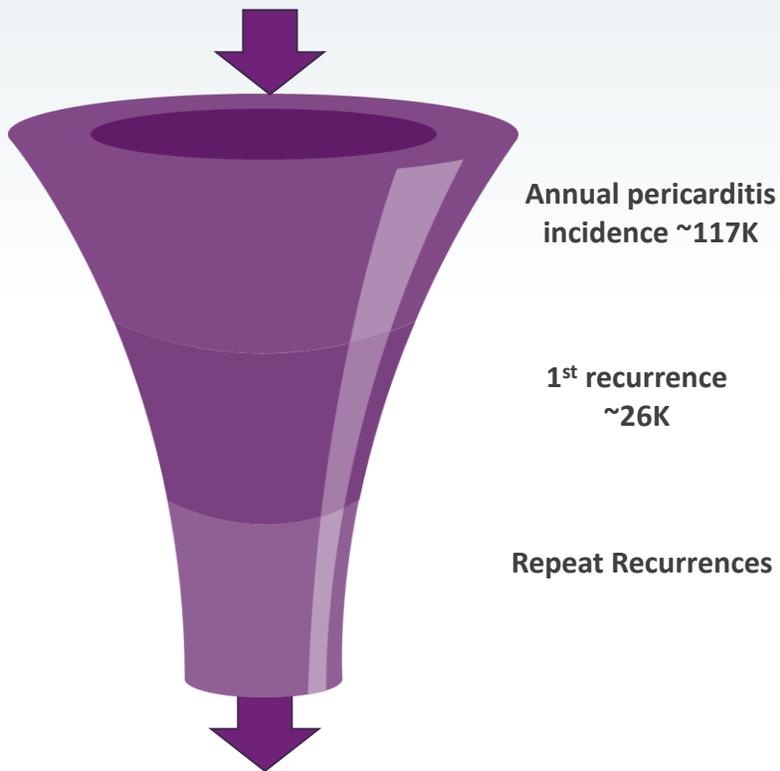
Role of IL-1 α and IL-1 β in the Autoinflammatory Cycle of Recurrent Pericarditis



Brucato A, et al. Int Emerg Med 2018 <https://doi.org/10.1007/s11739-018-1907-x>
Dinarello CA, et al. Nat Rev Drug Discov 2012;11:633-652

Addressable U.S. Opportunity of ARCALYST Estimated to be ~14K Patients

~7K new patients with multiple recurrences enter target pool annually



- ~7K new patients with repeat recurrences annually
- ~14K total patients with repeat recurrences annually at any point

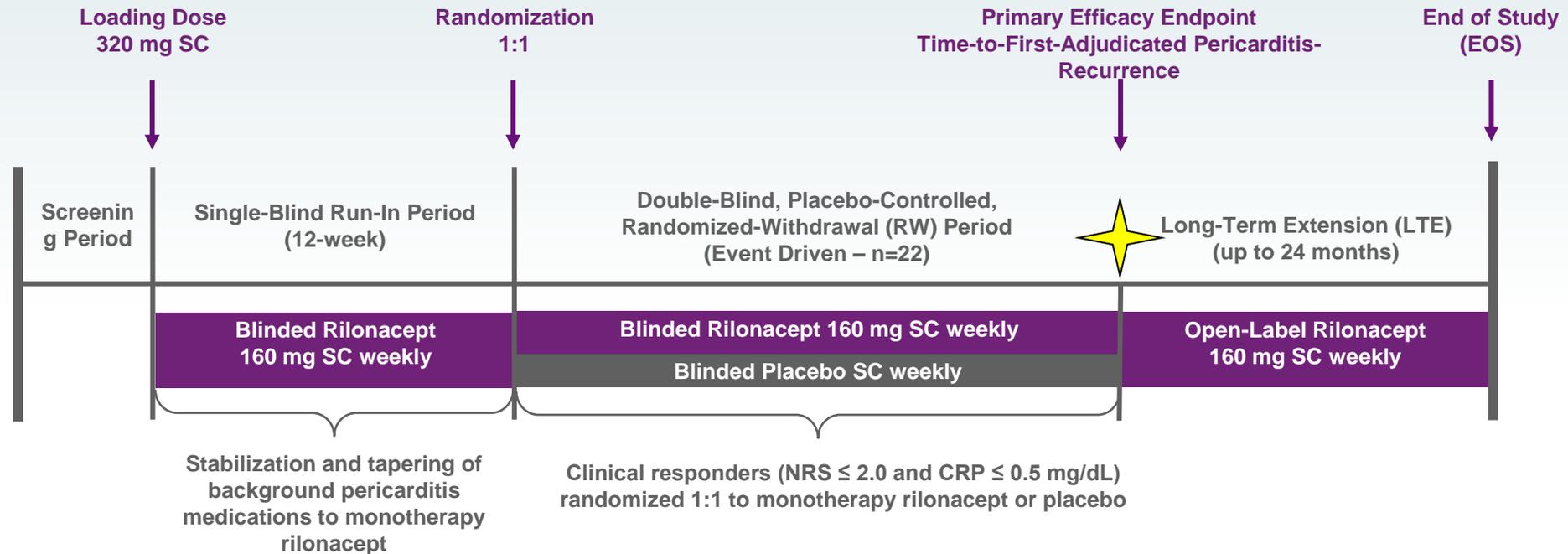
Year	-4	-3	-2	-1	0
Incident case of acute pericarditis (1 st episode) ¹	117K	117K	117K	117K	117K
Incidence of initial RP patients (1 st recurrence) ²	26K	26K	26K	26K	26K
Ongoing recurrent from year-1 ³				7K	7K
Ongoing recurrent from year-2 ³			7K	3.5K	3.5K
Ongoing recurrent from year-3 ³		7K	3.5K	1.8K	1.8K
Ongoing recurrent from year-4 ³	7K	3.5K	1.8K	0.9K	0.9K
Ongoing recurrent from year-5 ³	3.5K	1.8K	0.9K	0.5K	0.5K
Ongoing recurrent from year-6 ³	1.8K	0.9K	0.5K	0.2K	0.2K
Ongoing recurrent from year-7 ³					0.1K

Addressable Opportunity in U.S.



1: Prevalence estimate from Imazio, et al. (2008); includes all etiologies (~80% idiopathic)
 2: Mid point of 15-30% of initial recurrence rate published in ESC Guidelines given higher colchicine use today
 3: Estimate for recurrence rate of subsequent recurrences from ESC Guidelines and Claims Analysis

Pivotal Phase 3 Trial of ARCALYST in Recurrent Pericarditis



Inclusion Criteria:

- All etiologies except infection and malignancy
- Present at screening with at least a third pericarditis episode, defined as at least 1 day with **NRS pain of ≥ 4** and **CRP value ≥ 1 mg/dL** within the 7-day period prior to first study drug administration
- Concomitant NSAIDs and/or colchicine and/or oral corticosteroid treatment in any combination

Primary Efficacy Endpoint :

- Time-to-first-adjudicated pericarditis-recurrence in the RW period

Major Secondary Efficacy Endpoints (16-weeks):

- Proportion of subjects who maintained Clinical Response
- Percentage of days with no or minimal pain
- Proportion of subjects with absent or minimal pericarditis symptoms

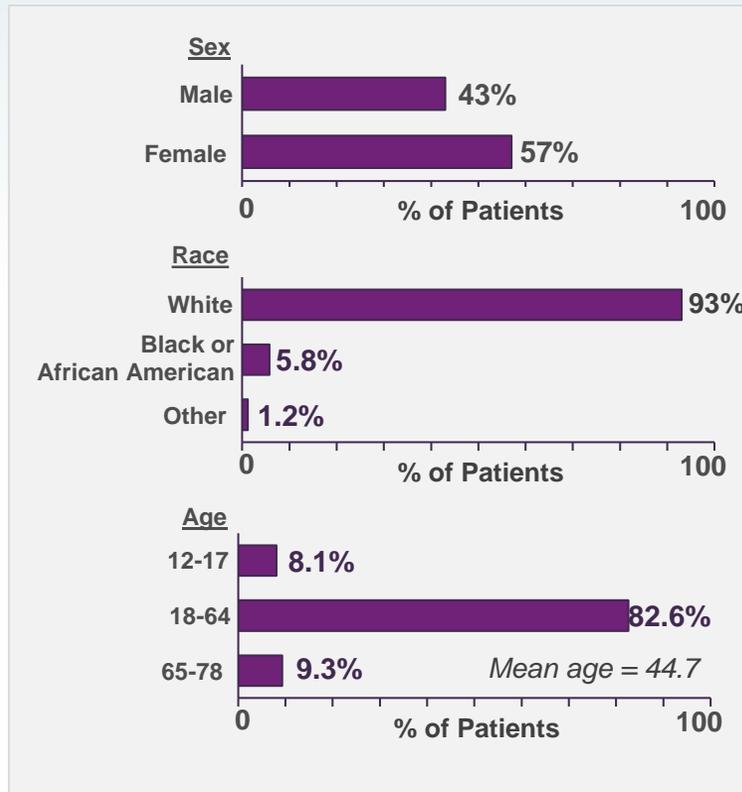
CEC Adjudication Criteria:

- Typical pericarditis pain (≥ 1 pain **NRS recording ≥ 4**) AND elevated **CRP (≥ 1.0 mg/dL)**, same day or ≤ 7 days
- Typical pericarditis pain (≥ 1 pain **NRS recording ≥ 4**) AND abnormal **CRP (>0.5 mg/dL)**, same day or ≤ 7 days AND ≥ 1 **supportive evidence** of pericarditis
- Typical pericarditis pain (BUT pain **NRS recording ≤ 4**) AND elevated **CRP (≥ 1.0 mg/dL)**, AND ≥ 1 **supportive evidence** of pericarditis

Baseline Demographics and Clinical Characteristics

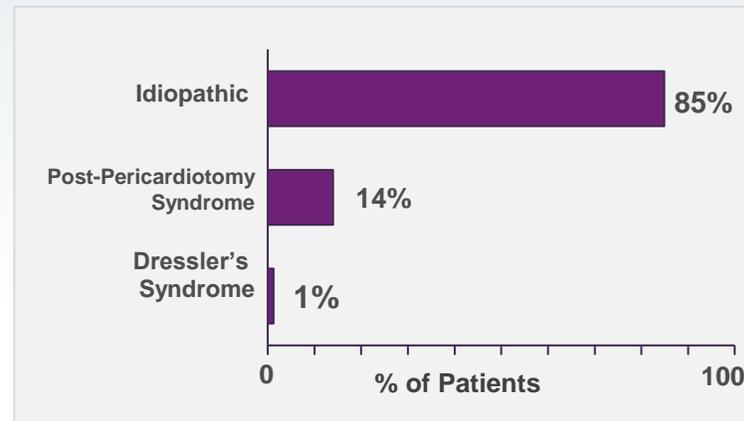
Pivotal Phase 3 Riloncept Data

Baseline Demographics (n=86)

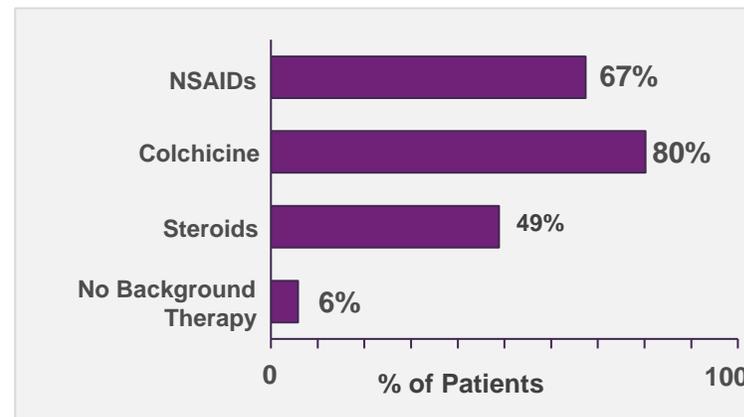


Total Number of Episodes Including Index and Qualifying Episodes	Run-in Period (n=86)
Mean	4.7

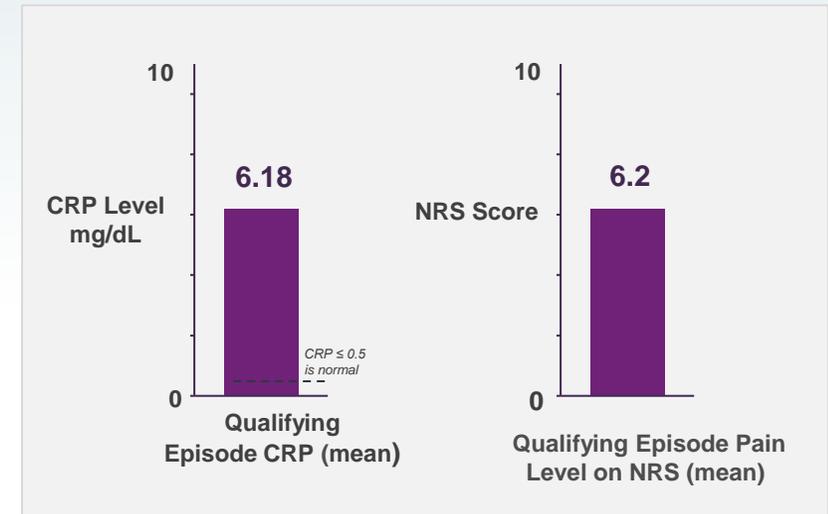
Prior Pericarditis History at Baseline (n=86)



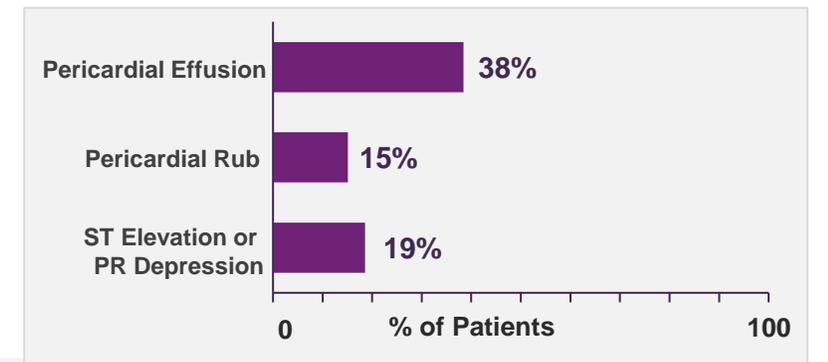
SoC Received at Qualifying Episode (n=86)



Qualifying Episode CRP & NRS (n=86)



Pericarditis Manifestations at Qualifying Episode (n=86)

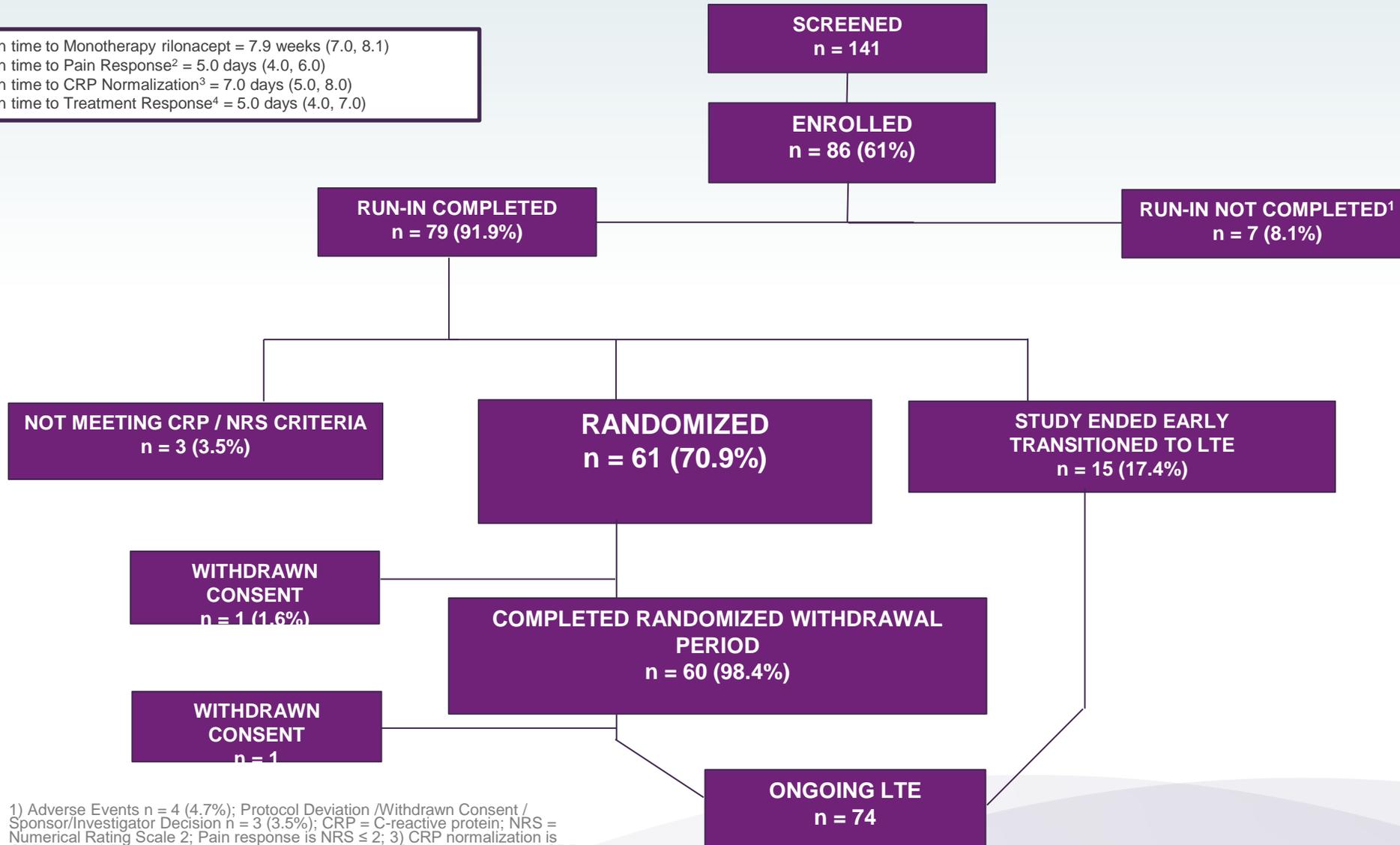


CRP = C-reactive protein; NRS = Numerical Rating Scale; SoC = Standard of Care; NSAIDs = nonsteroidal anti-inflammatory drugs

Subject Disposition

Pivotal Phase 3 Rilonacept Data

Median time to Monotherapy rilonacept = 7.9 weeks (7.0, 8.1)
 Median time to Pain Response² = 5.0 days (4.0, 6.0)
 Median time to CRP Normalization³ = 7.0 days (5.0, 8.0)
 Median time to Treatment Response⁴ = 5.0 days (4.0, 7.0)



1) Adverse Events n = 4 (4.7%); Protocol Deviation /Withdrawn Consent / Sponsor/Investigator Decision n = 3 (3.5%); CRP = C-reactive protein; NRS = Numerical Rating Scale 2; Pain response is NRS ≤ 2; 3) CRP normalization is CRP ≤ 0.5; 4) Treatment response is the combination of pain response and CRP normalization



ARCALYST Initiation Resulted in Rapid Resolution of Pericarditis Episodes

Pivotal Phase 3 RHAPSODY Data

Rapid and sustained reductions in both reported pain and inflammation as early as after the first dose of ARCALYST

Median time to pain response = 5.0 days; Median time to CRP normalization = 7.0 days

Secondary endpoints that were assessed during the run-in period

5 days

Time to treatment response
(median; 95% CI: 4, 7)*

97%

Treatment response* rate

7.9 weeks

Time to ARCALYST monotherapy
(median; 95% CI: 7, 8)



*Time to treatment response was defined as the time from the first dose to the first day when pericardial pain was NRS ≤ 2 and CRP ≤ 0.5 mg/dL (measured within 7 days before or after the pain response). During the 12-week run-in period, 77 of 79 patients demonstrated a treatment response.

Klein AL, Imazio M, Cremer P, et al. Phase 3 trial of interleukin-1 trap rilonacept in recurrent pericarditis. *N Engl J Med.* 2021;384(1):31-41.
ARCALYST (rilonacept) prescribing information 2021

ARCALYST Demonstrated a Steroid-Sparing Treatment Effect

Pivotal Phase 3 RHAPSODY Data

Patients treated with ARCALYST discontinued corticosteroids

In the run-in period of the Phase 3 trial RHAPSODY, patients receiving corticosteroids at baseline were transitioned to ARCALYST monotherapy in 7.9 weeks

Each patient treated with corticosteroids at baseline achieved clinical response with ARCALYST monotherapy

- 49% (27 of 86) of patients received corticosteroids at baseline
- None of the patients treated with corticosteroids at baseline and randomized to ARCALYST monotherapy experienced a recurrence while on therapy

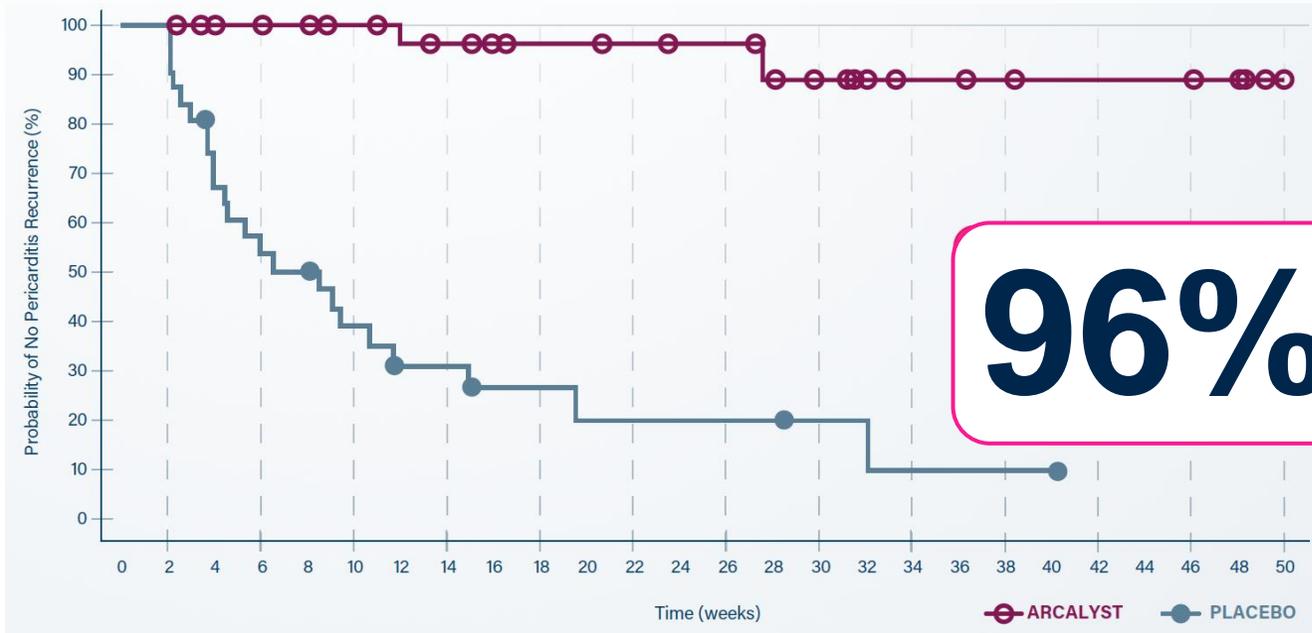


96% Reduction in Risk of Pericarditis Recurrence

Pivotal Phase 3 RHAPSODY Data

ARCALYST reduced the risk of pericarditis recurrence

The primary efficacy endpoint was time to first adjudicated pericarditis recurrence in the randomized withdrawal period.



The median time to recurrence on ARCALYST could not be estimated due to the low number of recurrences

- 2 of 30 of patients treated with ARCALYST had a recurrence
- The 2 pericarditis recurrences with ARCALYST occurred during temporary interruptions of 1 to 3 doses of ARCALYST

96%

reduction in the risk of recurrent pericarditis (hazard ratio: 0.04; $p < 0.0001$)

The median time to recurrence on placebo was 8.6 weeks (95% CI: 4.0, 11.7)

- 74% (23 of 31) of patients treated with placebo experienced a recurrence at the time that the event-driven portion of the trial was closed
- Consistent with the expected washout pharmacokinetics of once-weekly ARCALYST at steady state

92% of Trial Days of No/Minimal Pain

Pivotal Phase 3 RHAPSODY Data

Patients on ARCALYST had significantly more trial days with no/minimal pain vs placebo

Secondary efficacy endpoint was assessed during the randomized withdrawal period

92% of days

Patients reported no/minimal (NRS \leq 2) pericarditis pain

Compared with 40% of trial days in patients on placebo ($p < 0.0001$) at the secondary endpoint assessed at Week 16 of the randomized withdrawal period.

At Week 16 of the randomized withdrawal period:

- A majority (81%) of patients maintained a clinical response measured at Week 16 of the randomized withdrawal period compared with 20% of patients on placebo ($p = 0.0002$)



Most Common ARCALYST Adverse Reactions:

Injection-site reactions and upper respiratory tract infections

Adverse experiences in RHAPSODY

EVENT	RUN-IN PERIOD		RANDOMIZED-WITHDRAWAL PERIOD			TOTAL (N=86)
	Rilonacept (N=86)	Rilonacept, Including Bailout (N=30)	Placebo, Including Bailout (N=31) <i>number of patients with event (percent)</i>	Rilonacept, Before Bailout (N=30)	Placebo, Before Bailout (N=31)	
Any adverse event	69 (80)	24 (80)	22 (71)	24 (80)	13 (42)	74 (86)
Adverse events according to maximum severity [†]						
Mild	52 (60)	16 (53)	17 (55)	16 (53)	9 (29)	47 (55)
Moderate	15 (17)	8 (27)	5 (16)	8 (27)	4 (13)	25 (29)
Severe	2 (2)	0	0	0	0	2 (2)
Serious adverse event	1 (1)	1 (3)	3 (10)	1 (3)	1 (3)	5 (6)
Adverse event leading to death	0	0	0	0	0	0
Adverse event leading to dose interruption	0	1 (3)	0	1 (3)	0	1 (1)
Adverse event leading to discontinuation of rilonacept or placebo	4 (5)	0	0	0	0	4 (5)
Cancer [‡]	0	1 (3)	0	1 (3)	0	1 (1)
Injection-site reaction	28 (33)	6 (20)	2 (6)	5 (17)	0	29 (34)
Infection or infestation	14 (16)	12 (40)	7 (23)	12 (40)	3 (10)	29 (34)
Upper respiratory tract infection	12 (14)	7 (23)	2 (6)	7 (23)	0	19 (22)

*Patients with multiple events were counted once in each appropriate category

[†]Counted once, according to the maximum severity of the adverse event.

[‡]Cancer was an event of special interest.



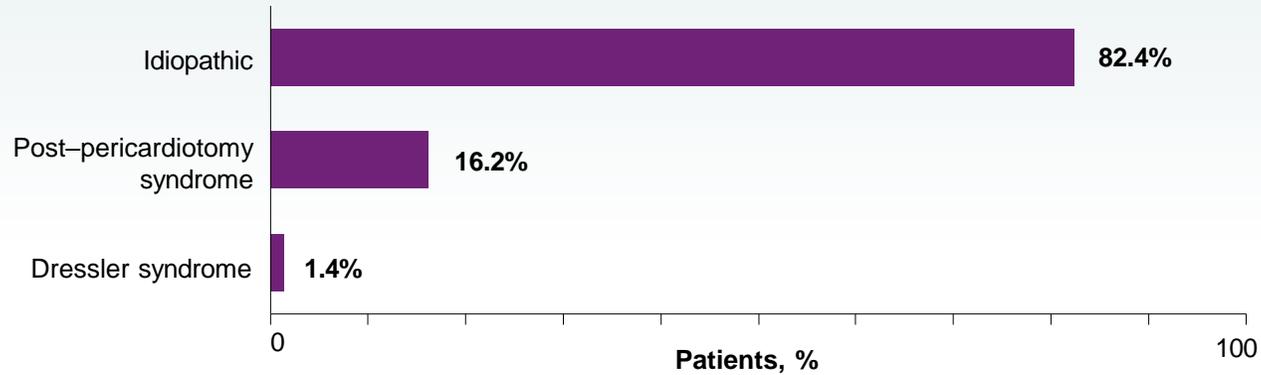
RHAPSODY Background



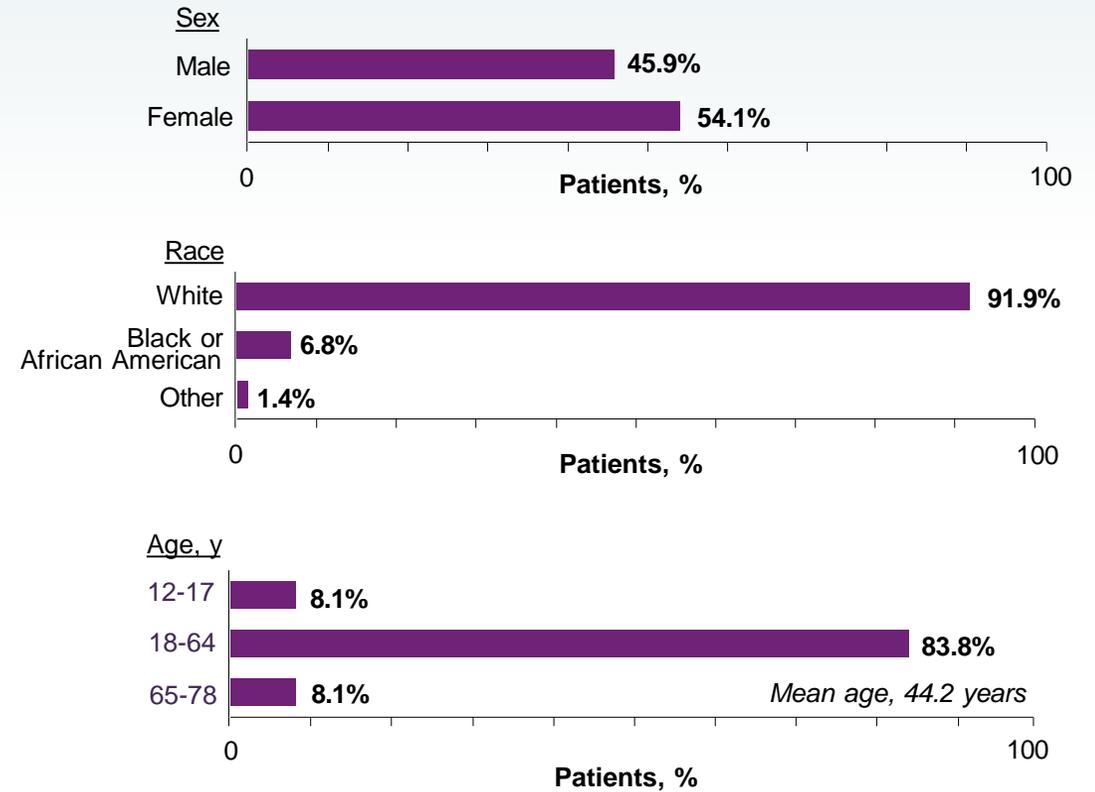
- RHAPSODY was a phase 3, double-blind, placebo-controlled, event-driven, randomized-withdrawal (RW) trial of rilonacept in patients with RP, which also included a long-term extension (LTE) phase, allowing up to 24 months of additional open-label rilonacept treatment
- Population: Patients enrolling in the pivotal study had a mean disease duration of 2.4 years and presented with an acute pericarditis recurrence (qualifying episode) despite use of NSAIDs (67%), colchicine (80%), or corticosteroids (49%)
 - Mean CRP level was 6.2 mg/dL
 - The cause of pericarditis was idiopathic in 85%, post-pericardiotomy syndrome in 14%, and Dressler syndrome in 1% of the cohort
- **All suspected pericarditis recurrence events in the event-driven RW period were formally adjudicated by the Clinical Endpoint Committee (CEC)**
- **Results of the pivotal study**
 - During the run-in period, median (95% CI) time to pain response was 5 (4–6) days, and median (95% CI) time to normalization of the CRP level was 7 (5–8) days.
 - The median (95% CI) time to the prespecified treatment response was 5 (4–7) days
 - During the RW period, patients receiving rilonacept experienced a 96% reduction in the risk of recurrence (hazard ratio in a Cox proportional-hazards model, 0.04; 95% CI, 0.01–0.18; $P < 0.0001$ by log-rank test)
 - There were too few recurrence events in the rilonacept group to allow for the median time to the first adjudicated recurrence to be calculated
 - The median (95% CI) time to the first adjudicated recurrence in the placebo group was 8.6 (4.0–11.7) weeks
 - In the period until the event-driven RW portion of the study was closed, 2 of 30 patients (7%) in the rilonacept group experienced a pericarditis recurrence, as compared with 23 of 31 patients (74%) in the placebo group
 - The 2 recurrence events in the rilonacept group were associated with temporary interruptions of the trial-drug regimen of 1 to 3 weekly doses
 - The most common adverse events were injection-site reactions and upper respiratory tract infections

Patient Cohort (n = 74) in RHAPSODY Long-Term Extension

Prior Pericarditis History at Run-In Baseline



Baseline Demographics



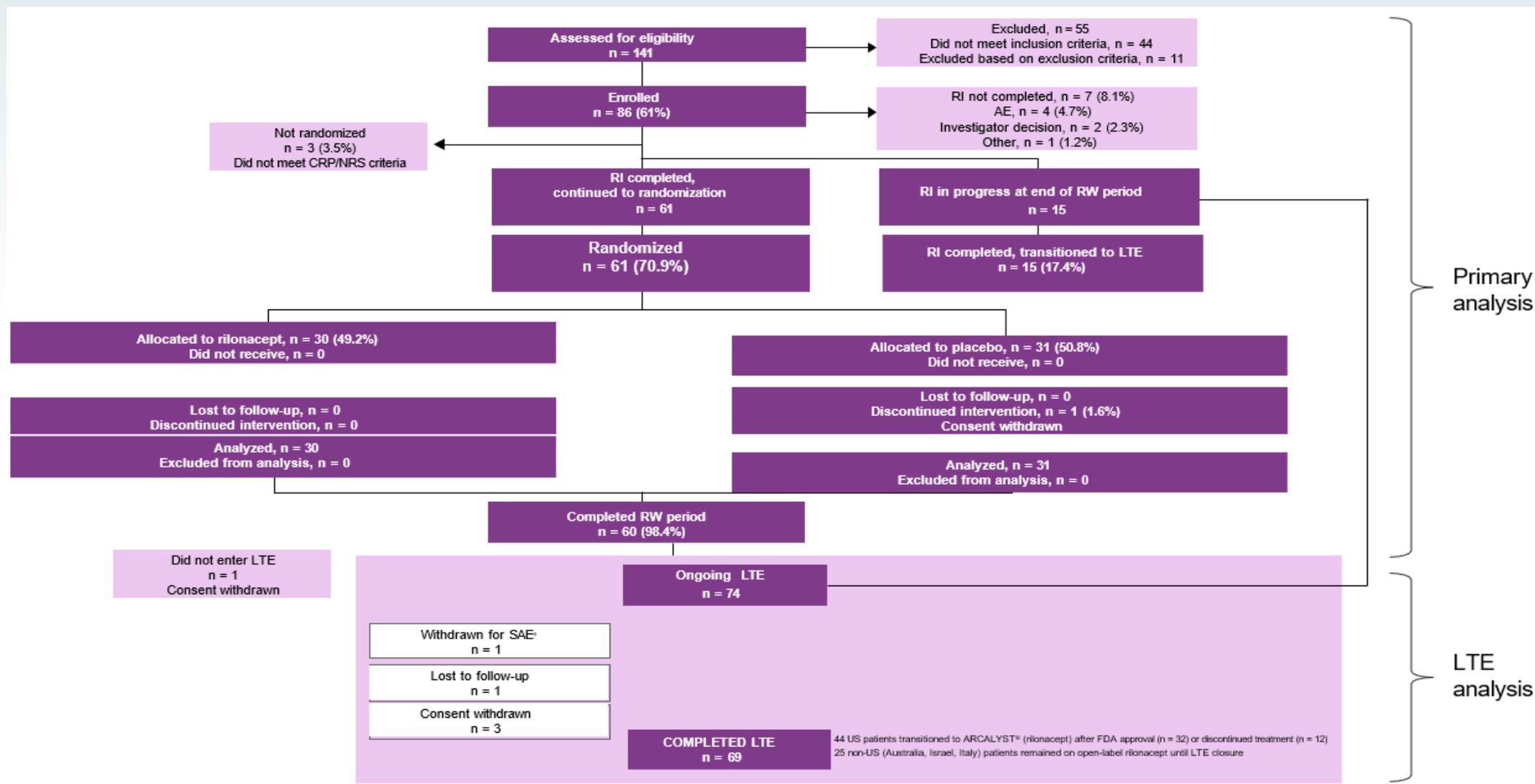
Mean Number of Episodes, Including Index and Qualifying Episodes at Run-In Baseline (n = 74)	Mean Disease Duration at Run-In Baseline (n = 74)
4.8	2.5 years

RHAPSODY LTE Patient Disposition



- Patients entering the LTE already had a history of 2.5 years of disease duration (mean 3.8 pericarditis recurrences) before entering RHAPSODY
- At the end of the event-driven RW study, the median duration of rilonacept therapy had reached 9 months (maximum 14 months)
- In May 2020, 74 of 75 eligible patients continued into the RHAPSODY open-label LTE
- At the 1-year anniversary of the LTE (April 2021), the median duration of continuous rilonacept treatment had reached 20 months
- All patients were followed in the LTE until geography-specific study closure
 - Total LTE—all geographies (n = 74)
 - Median rilonacept treatment duration from run-in baseline was 23 months (maximum 35 months)
 - US patients (n = 45)
 - In April 2021, the LTE was concluded in the United States, and all US patients either switched to commercial ARCALYST® (rilonacept) therapy (n = 32) or discontinued rilonacept (n = 12)
 - Median continuous rilonacept treatment duration from run-in baseline was 18 months (maximum 27 months)
 - Non-US (Italy, Israel, Australia) patients (n = 29)
 - In June 2022, the non-US LTE was concluded, and all patients discontinued rilonacept
 - Median rilonacept treatment duration from run-in baseline was 29 months (maximum 35 months)

RHAPSODY LTE Patient Disposition (Consort Diagram)



Efficacy Up to 18-Month Decision Point



- During treatment with open-label rilonacept in the LTE (before 18-month decision point), continued rilonacept treatment resulted in continued treatment response
 - Pericarditis recurrences, inflammation signs (CRP levels), and severity of RP symptoms (Patient Global Impression of Pericarditis Severity [PGIPS]) remained low
 - At each study visit:
 - >95% of patients had CRP levels ≤ 1 mg/dL
 - >86% of patients reported absent or minimal pericarditis symptoms (PGIPS)
 - Only 3 investigator-assessed recurrences were reported
 - Annualized incidence: 0.04 events per patient-year



Efficacy After the 18-Month Decision Point

- A total of 52 patients reached the 18-month decision point while on rilonacept (i.e., 18 months since most recent recurrence, whether qualifying episode or in the RW period)
 - 33 patients continued treatment with open-label rilonacept
 - 8 patients suspended rilonacept treatment and remained on study for observation (rilonacept rescue for recurrence was allowed)
 - 11 patients discontinued study participation
- Continued treatment with rilonacept past 18 months resulted in continued treatment response
 - There was a 98% reduction in risk of recurrence (hazard ratio, 0.02; $P < 0.0001^a$)
 - Recurrence (investigator-assessed) rate was 3.0% (1/33) in the patients who continued rilonacept treatment. This recurrence occurred at 23.4 weeks into the LTE and was associated with a treatment interruption of 4 weeks
 - Recurrence (investigator-assessed) rate was 75.0% (6/8) in the patients who suspended rilonacept treatment for observation
 - The median (IQR) time to recurrence after suspending rilonacept treatment was 11.8 (3.7–not estimable [NE]) weeks
 - Reinitiation of rilonacept resulted in resolution of acute pericarditis recurrence
 - Annualized recurrence rate^b (95% CI) was 0.18 (0.06–0.41) events per patient-year for the patients who remained on rilonacept and 2.18 (0.80–4.75) events per patient-year for the patients who interrupted rilonacept
- At the end of the LTE treatment period, patients stopped rilonacept treatment and were returned to standard of care for recurrent pericarditis. Patients were monitored in a posttreatment safety follow-up period (6 weeks post–last dose) for adverse events
 - 4 additional pericarditis recurrences occurred during the posttreatment follow-up period, at ~6 weeks post–rilonacept treatment (3 patients) and ~3 weeks post–rilonacept treatment (1 patient)

RHAPSODY LTE Safety & Adverse Experiences



- During the LTE period, treatment-emergent adverse events (TEAEs) were experienced by 83.8% of patients (n = 62)
- In most patients, the maximum severity of TEAEs was mild (37.8%) or moderate (37.8%)
- 2 patients experienced serious TEAEs (acute endocarditis, viral pneumonia) considered "related" to the study drug

TABLE 1. ADVERSE EVENTS REPORTED IN RHAPSODY LONG-TERM EXTENSION

TEAE Category, ^a n (%)	LTE Period (n = 74)
Any TEAE^b	62 (83.8)
TEAE by maximum severity^c	
Mild	28 (37.8)
Moderate	28 (37.8)
Severe	6 (8.1)
TEAE related to study drug^d	21 (28.4)
Patients with serious TEAEs^e	5 (6.8)
Serious TEAE related to study drug	2 (2.7)
Leading to dose interruption	2 (2.7)
Leading to study drug discontinuation	3 (4.1)
Leading to death	0
Infection or infestation	31 (41.9)
TEAE of upper respiratory tract infection	12 (16.2)
TEAE of injection-site reaction	4 (5.4)



^aPatients with multiple events were counted once in same category. ^bAdverse event that starts or increases in severity from first study-drug dose to 6 weeks after last dose. ^cEach patient represented according to maximum severity. ^dEvent was related, possibly related, or missing, as assessed by investigator. ^e5 patients experienced serious TEAEs: 1. Pneumothorax; 2. Acute endocarditis, aortic valve disease, acute myocardial infarction, pericarditis; 3. Transient ischemic attack, coronavirus infection; 4. Pneumonia, pneumonia viral (COVID-19); 5. Left ventricular failure, hip fracture, bile duct stone, cardiac-device malfunction. LTE, long-term extension; TEAE, treatment-emergent adverse event. Imazio M, Klein AL, et al. Prolonged Riloncept Treatment in Rhapsody Long-term Extension Provided Persistent Reduction of Pericarditis Recurrence Risk. Poster 2223 (Presented at AHA Scientific Sessions 2022)

Conclusions from RHAPSODY LTE



- Patients with RP have a chronic autoinflammatory disease, characterized by multiple recurrences mediated by IL-1. This disease may last several years
- In patients with symptomatic RP failing standard of care:
 - Continued rilonacept treatment during the LTE (median 18 and 29 months in the US and non-US patients, respectively) resulted in continued treatment response
 - Rilonacept reduced the risk of pericarditis recurrence by 98% beyond 18 months of treatment
 - Suspension of rilonacept treatment even after 18 months of treatment resulted in unmasking of the underlying autoinflammation process, resulting in pericarditis recurrence
 - Reinitiation of rilonacept resulted in resolution of the acute pericarditis recurrences
 - Over treatment periods of 18 months and beyond in this study, rilonacept was generally well tolerated
 - In patients with similar disease characteristics, treatment beyond 18 months may be warranted to prevent pericarditis recurrence over the long term



ARCALYST Label

ARCALYST is a patient-administered once-weekly subcutaneous therapy

ADULTS (18 years and older)	ADOLESCENTS (12 to 17 years)
Loading dose: 320 mg delivered as two 160 mg (2 mL) injections	Loading dose: 4.4 mg/kg delivered up to a maximum of 320 mg, delivered as 1 or 2 injections (not to exceed 2 mL/injection)
Weekly maintenance dose: 160 mg delivered once weekly as a 2 mL injection	Weekly maintenance dose: 2.2 mg/kg delivered up to a maximum of 160 mg (2 mL) injection, once weekly



ARCALYST is supplied in sterile, single-use, 20-mL glass vials

- Each vial contains 220 mg ARCALYST, a sterile, white to off-white lyophilized powder
- Reconstitution with 2.3 mL of preservative-free Sterile Water for Injection is required prior to subcutaneous administration of the drug
- The reconstituted ARCALYST is a viscous, clear, colorless to pale yellow, free from particulates, 80-mg/mL preservative-free solution

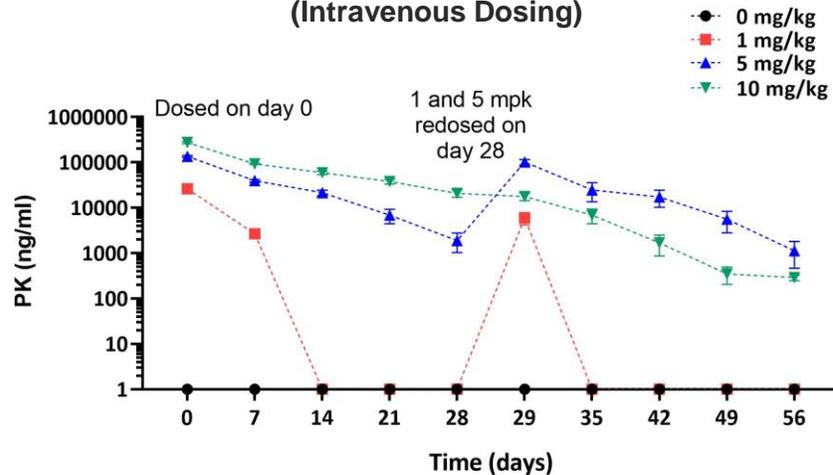
The first injection of ARCALYST should be performed under the supervision of a healthcare professional.



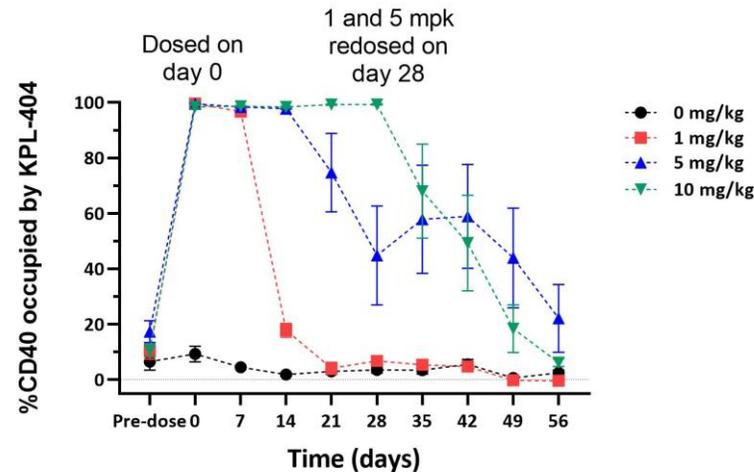
Appendix KPL-404

KPL-404 Showed Encouraging Results in a Non-Human Primate Model of TDAR

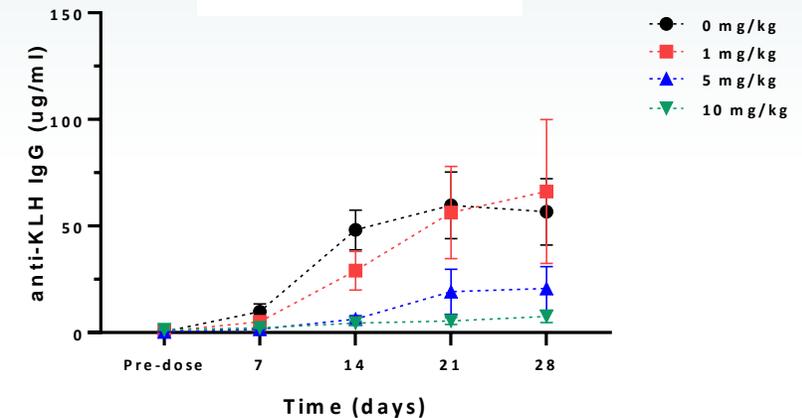
**Mean KPL-404 PK
(Intravenous Dosing)**



Mean KPL-404 Receptor Occupancy (RO)



Mean KLH IgG



Showed linear pharmacokinetic profile with low variability between non-human primate subjects (n=7)

KPL-404 achieved 100% receptor occupancy for 2 weeks in all animals at 5mg/kg and 4 weeks in all animals at 10mg/kg

Complete suppression of primary T-cell dependent antigen response correlated with 100% receptor occupancy



Source = 1) Poster presentation at the Keystone Symposia: Antibodies as Drugs: New Horizons in the Therapeutic Use of Engineered Antibodies: KPL-404, a CD40 antagonist, blocked antigen-specific antibody responses in an in vivo NHP model and demonstrated strong PK/PD correlation; 2) Muralidharan et al. Preclinical immunopharmacologic assessment of KPL-404, a novel, humanized, non-depleting antagonistic anti-CD40 monoclonal antibody. J Pharmacol Exp Ther. 2022, 381(1):12-21; TDAR = T-cell dependent antibody response; KLH = keyhole limpet hemocyanin



Corporate Presentation

NOVEMBER 2022