

Forward-looking statements



This presentation may contain forward-looking statements. Forward-looking statements are statements of future expectations that are based on management's current expectations and assumptions and involve known and unknown risks and uncertainties that could cause actual results, performance, or events to differ materially from those expressed or implied in these statements. These forward-looking statements are identified by their use of terms and phrases such as "aim", "ambition", "anticipate", "believe", "could", "estimate", "expect", "goals", "intend", "may", "milestones", "objectives", "outlook", "plan", "probably", "project", "risks", "schedule", "seek", "should", "target", "will" and similar terms and phrases. Examples of forward-looking statements may include statements with respect to timing and progress of Pharming's preclinical studies and clinical trials of its product candidates, Pharming's clinical and commercial prospects, and Pharming's expectations regarding its projected working capital requirements and cash resources, which statements are subject to a number of risks, uncertainties and assumptions, including, but not limited to the scope, progress and expansion of Pharming's clinical trials and ramifications for the cost thereof; and clinical, scientific, regulatory and technical developments. In light of these risks and uncertainties, and other risks and uncertainties that are described in Pharming's 2022 Annual Report and the Annual Report on Form 20-F for the year ended December 31, 2022, filed with the U.S. Securities and Exchange Commission, the events and circumstances discussed in such forward-looking statements may not occur, and Pharming's actual results could differ materially and adversely from those anticipated or implied thereby. All forward-looking statements contained in this presentation are expressly qualified in their entirety by the cautionary statements contained or referred to in this section. Readers should not place undue reliance on forward-looking statements. Any forwardlooking statements speak only as of the date of this presentation and are based on information available to Pharming as of the date of this presentation. Pharming does not undertake any obligation to publicly update or revise any forward-looking statement as a result of new information, future events or other information.

Building a sustainable rare disease business



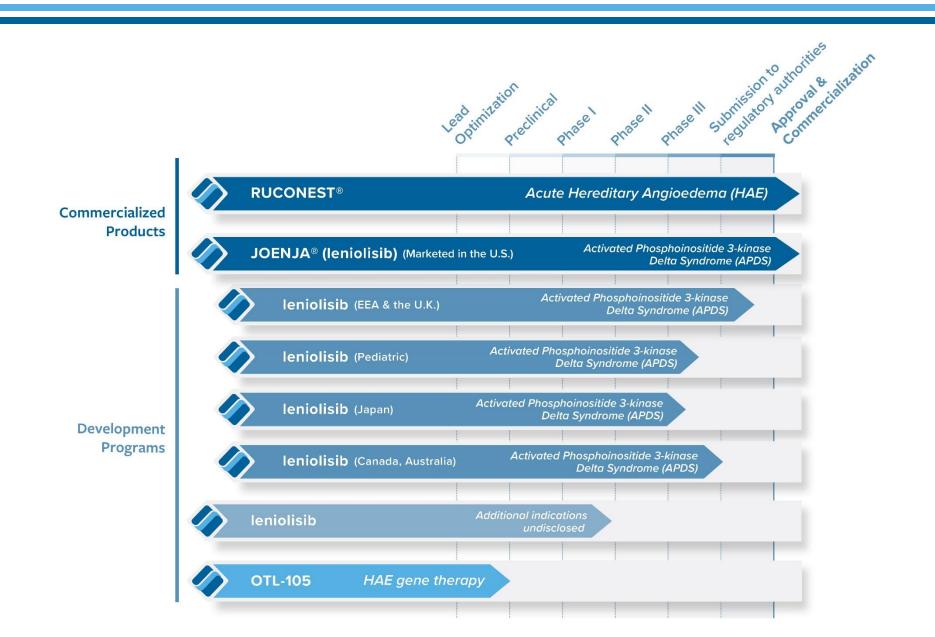


Positive cash flow from RUCONEST® helps fund Joenja® (leniolisib) and pipeline development and management Successful
commercialization of
Joenja® (leniolisib) for
APDS and additional rare
disease indications

Advance internal projects and potential acquisitions of new, latestage assets through in-licensing and M&A

Pipeline – multiple commercial stage rare disease products Pharming 35%





Strong rare disease product commercial infrastructure





Dedicated sales force and marketing in US, EU, and MENA



Market access teams



Patient support and reimbursement teams



Disease educators and specialists for APDS and HAE



Medical Affairs teams

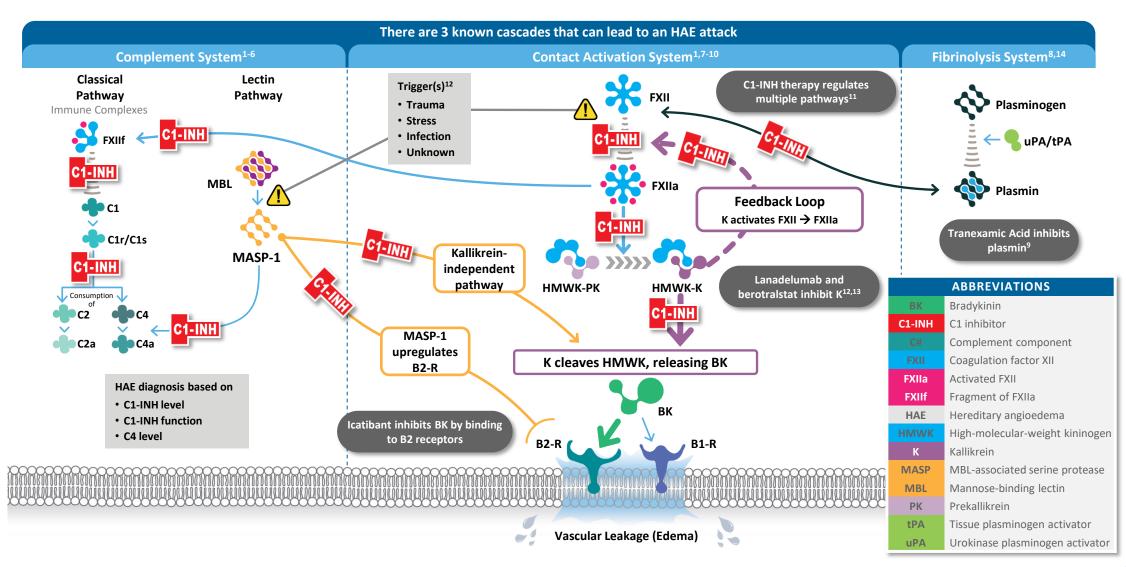


High conference penetration & Support for educational KOL speaker programs



C1-INH targets the root cause of HAE





Adapted from a clinical cascade developed in partnership with Dr. Allen Kaplan. This is a current scientific understanding of the cascades. Clinical implications are unknown.

RUCONEST® (rhC1INH): durable commercialized asset





RUCONEST® sales >US\$200m (trailing 12 months)



Outlook of single digit revenue growth for 2023



The only recombinant treatment that targets the root cause of HAE by replacing missing or dysfunctional C1-INH



Well-tolerated and effective treatment option for acute hereditary angioedema (HAE) - including breakthrough attacks



Second most prescribed product detailed for acute attacks



97% of acute attacks needed just one dose of RUCONEST®1



93% of attacks were stopped with RUCONEST® for at least three days²



Patients are well managed and feel confident to administer treatment themselves³



APDS is a rare, primary immunodeficiency (PI) first characterized in 2013





Activated phosphoinositide 3-kinase delta (PI3Kδ) syndrome (APDS) affects >1500 patients*

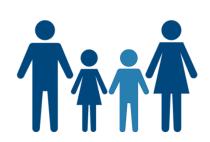
To date, Pharming has identified >500 of these patients

(as of December 2022 for US, Europe, UK, Japan, Canada, Australia)



Until now, treatments for APDS have addressed the symptoms of the disease which manifest early in childhood, but not the root cause of APDS

Without an indicated treatment specifically for APDS, physicians could only manage symptoms



The signs and symptoms of APDS vary widely, even among family members with the same genetic variant, resulting in potential delays in diagnosis and care



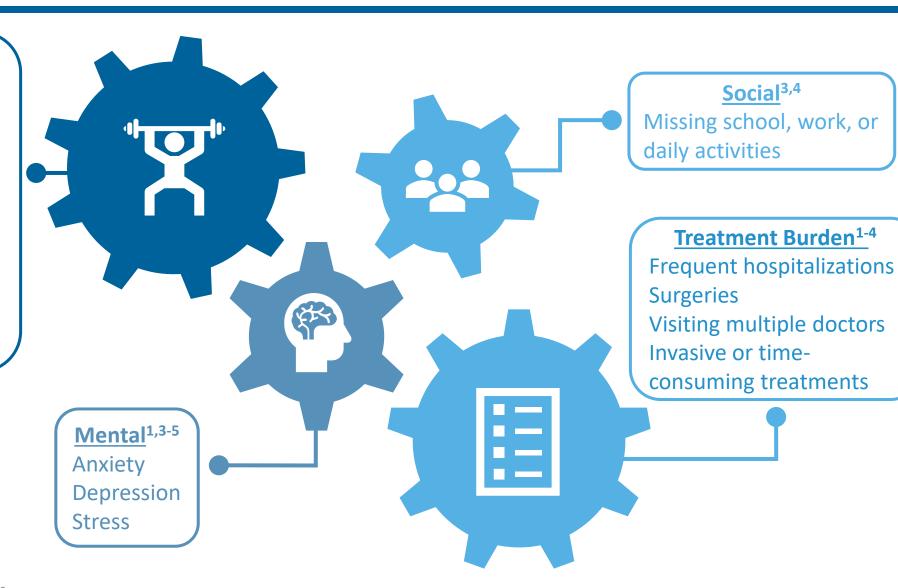
A genetic test can provide a definitive diagnosis of APDS

APDS can impact many facets of life



Physical^{1,2}

Frequent infections
Swollen glands
Shortness of breath
Coughing/wheezing
Chest or joint pain
Fatigue
Inability to exercise
Hearing loss
Diarrhea
Skin problems



APDS, activated phosphoinositide 3-kinase δ syndrome.

^{1.} Coulter TI, et al. J Allergy Clin Immunol. 2017;139(2):597-606. 2. Elkaim E, et al. J Allergy Clin Immunol. 2016;138(1):210-218. 3. Rider NL, et al. J Clin Immunol. 2017;37(5):461-475.

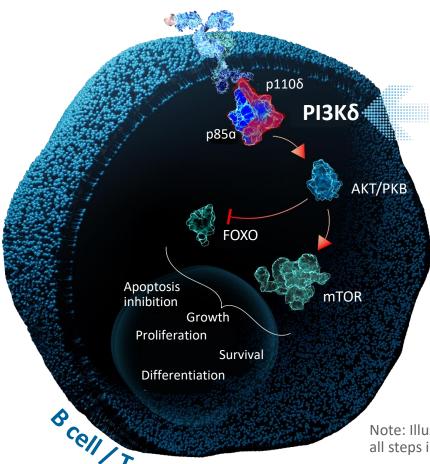
Genetic defect leads to PI3Kδ hyperactivity, disrupting immune cell balance



Hyperactive PI3Kδ results in dysregulated B and T cell development¹⁻³



Immune imbalance leads to diverse signs and symptoms^{1,4-6}



The PI3Kδ enzyme is at the beginning of a complex signaling pathway



Severe, recurrent, persistent infections

- Sinopulmonary
- Herpesvirus (especially EBV and CMV)



Lymphoproliferation

- Lymphadenopathy
- Splenomegaly/hepatomegaly
- Nodular lymphoid hyperplasia



Enteropathy



- Cytopenias
- Autoimmune disorders
- Autoinflammatory disorders



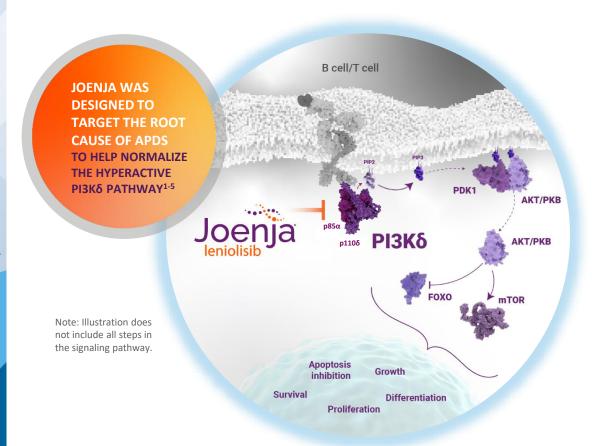
Bronchiectasis

Lymphoma

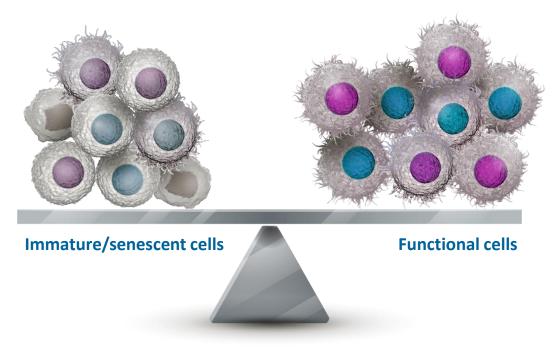
Note: Illustration does not include all steps in the signaling pathway.

Joenja®: immune modulator that targets the root cause of APDS





Joenja® facilitates a balanced PI3Kδ pathway to support proper immune function⁶



This is a graphical representation of a complex biological process.



FDA approval of Joenja®: a much-needed treatment for patients with APDS and another win for Pharming



Joenja® (leniolisib) is a prescription medicine that is used to treat activated phosphoinositide 3-kinase delta (PI3K δ) syndrome (APDS) in adults and pediatric patients 12 years of age and older

In a randomized placebocontrolled trial of patients with APDS

- Joenja® met both primary end points with significant efficacy results
- Demonstrated significant improvement in other secondary and exploratory parameters

Joenja® reported additional findings from an ongoing long-term openlabel extension study interim analysis: reductions/discontinuations in IRT and reduction in infection rates



Extension study interim analysis demonstrated safety consistent with the randomized, controlled trial. We continue to collect observational long-term data on lymphadenopathy, naive B cells and IgM

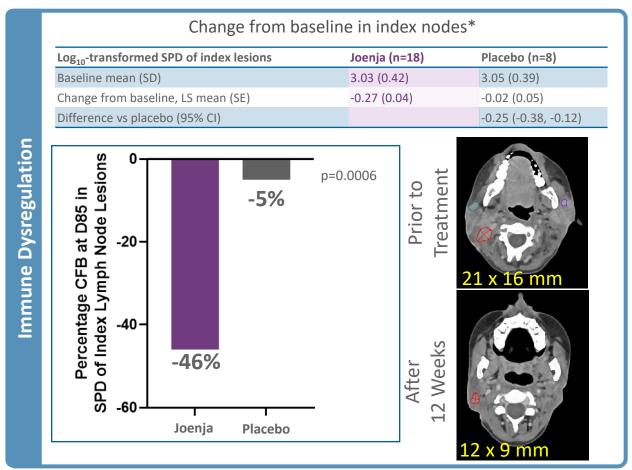
There were no drug-related serious adverse events or study withdrawals in Joenja® trials

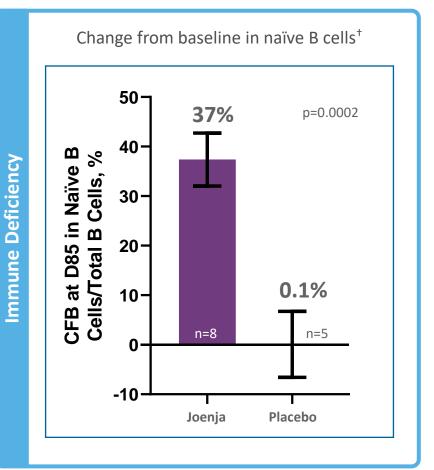
Pharming is well-positioned to hit the ground running with Joenja®

Joenja® addresses the underlying cause of APDS to help restore immune balance – Phase 3 co-primary endpoints



At 12 weeks Joenja® decreased lymphadenopathy and increased naïve B cells





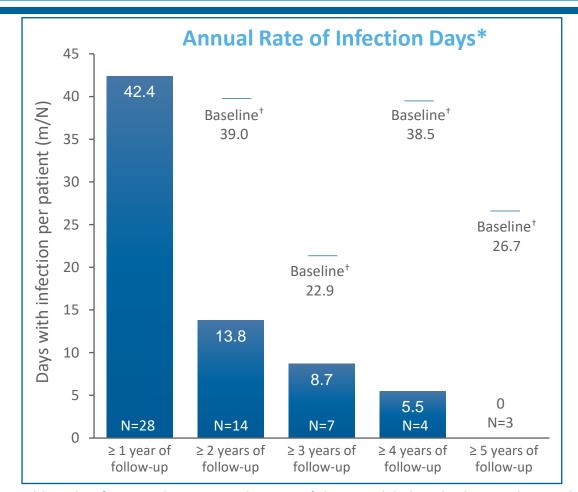
Data were analyzed using an ANCOVA model with treatment as a fixed effect and baseline as a covariate. Use of glucocorticoids and IRT at baseline were both included as categorical (Yes/No) covariates. Baseline is defined as the arithmetic mean of the baseline and D1 values when both are available, and if either baseline or the D1 value is missing, the existing value is used. P-value is 2-sided. Least square means are graphed. Error bars are standard error of the mean.

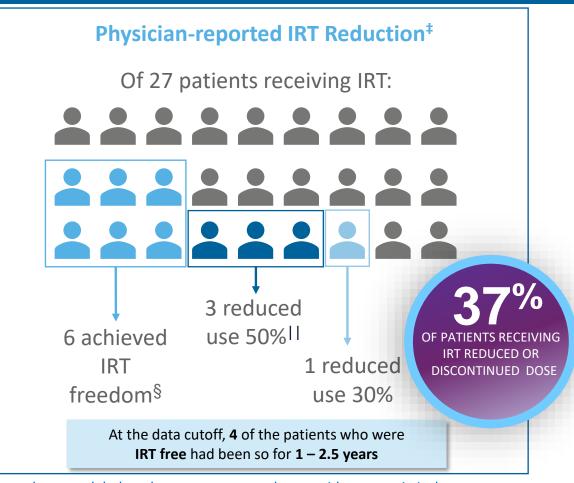
*The analysis excluded 2 patients from each treatment group due to protocol deviations and 1 Joenja patient having complete resolution of the index lesion identified at baseline.

[†]Out of 27 patients in the PD analysis set, 13 patients met the analysis requirements, including having a percentage of <48% of naïve B cells at baseline, to form the B-PD analysis set. Joenia [package insert]. Leiden, The Netherlands: Pharming Technologies B.V.; 2023.

Open-label extension interim analysis of days spent with infections and IRT reduction







Although safety was the primary objective of the open-label study, this post hoc analysis from the open-label study was not powered to provide any statistical significance of efficacy and therefore no conclusions should be drawn.

^{*}Infections that developed during the study were reported as adverse events. Investigators were requested to inquire about signs and symptoms of infections at each visit, with a particular focus on bacterial enterocolitis. Patients were not provided an infection diary to document infections occurring between visits. One patient was excluded from the analysis due to an incorrect year that was recorded for an infection. †Baseline infections are each group's year 1 annual rate of infections. N values changed because patients were in the OLE for different lengths of time. †Data on concomitant medication usage was reported at each patient visit. One patient had a subsequent one-time dose. ||One patient achieved IRT freedom for 3 months but subsequently restarted IRT.

Joenja® – looking ahead





Joenja® launched & reimbursed commercial shipments to patients commenced early April



Europe – CHMP opinion on MAA expected 2H23 (approval ~ 2 months later)



UK – MHRA filing expected 2H23 (approval ~2 months later)



Initiation of Japan clinical study in 1H23 (Orphan Drug Designation ODD granted May 2023)



Development ongoing for pediatric patients 4 to 11 years old



Initiation of second pediatric study in children 1 to 6 years in 3Q23

Joenja® set up for commercial success





Commercial Field Team

Rare Disease Team of 27 focused on Allergy/Immunology

Institutional Team of 27 focused on multiple specialties



Patient Identification

- Work with HCPs to further identify patients and get them tested
- APDS clinical educators assist with family mapping







Support Services

- Dedicated support, education and resources for patients and caregivers through the APDS Assist patient support program
- APDS Care Coordinators provide support for onboarding, coverage assistance and financial support resources



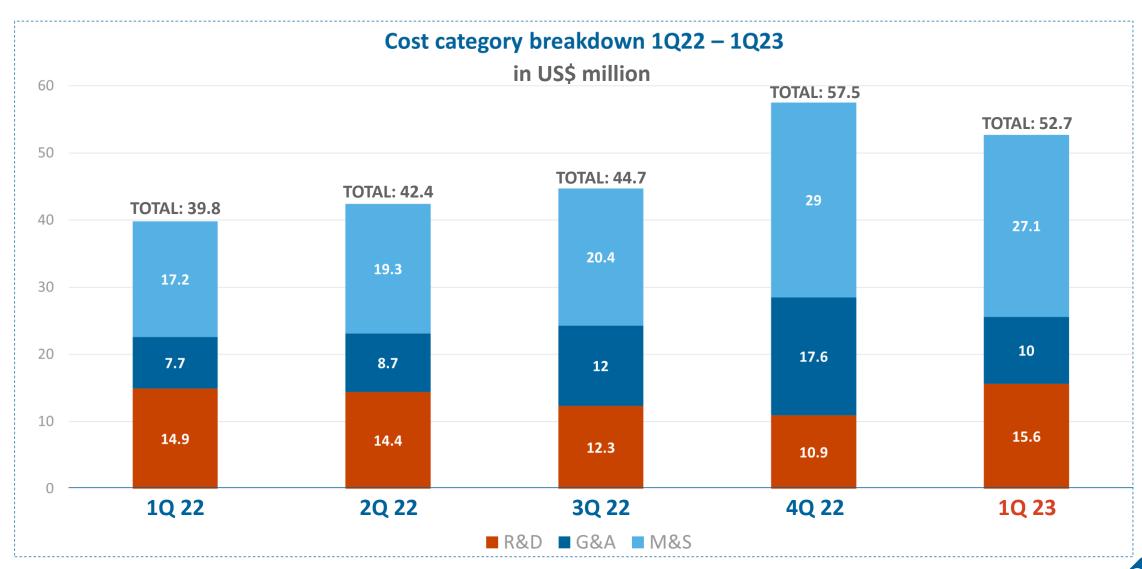
Patient Access

- Partnered exclusively with PANTHERx Specialty
 Pharmacy
- Starter and Bridge program enables rapid access while navigating coverage
- Copay Assistance and Patient Assistance Programs for eligible patients ensure affordability to care



Continued investment in the launch of Joenja





Outlook 2023





Continued low single-digit growth in RUCONEST® revenues



Joenja® approved by FDA March 24, 2023, commercializing in U.S. since early April 2023



Positive CHMP opinion in 2H 2023, marketing authorization in Europe ~2 months later*



File leniolisib with UK's MHRA following ECDRP route*



Continued operating cost investments to accelerate future growth



Further details on our plans to develop leniolisib in additional indications to be provided in 2H 2023



Investment and continued focus on potential acquisitions and in-licensing of late-stage opportunities in rare diseases

