



Company Presentation
September 2024

AIM: POLB



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Proven Leadership Team

Experience in commercialising and developing innovative medicines





Cathal Friel Executive Chairman







✓ Founder of Raglan Capital, completed 5 IPOs (incl. Amryt Pharma, hVIVO & Poolbeg Pharma)



David Allmond
Chief Business Officer







- ✓ Former CBO at Amryt Pharma pivotal in establishing sales & marketing in EU, US and ex-US
- ✓ Previously CVP Global Marketing at Celgene and EMEA lead at Aegerion Pharmaceuticals



Jeremy Skillington PhD
Chief Executive Officer







- ✓ Employee #3 at Inflazome €380m+ exit to Roche
- ✓ Extensive BD experience with Genentech & HS Lifesciences



John McEvoy Chief Legal Officer









- ✓ Former GC at Amryt Pharma pivotal in rapid growth through acquisition & Nasdaq listing
- ✓ Qualified lawyer in the US (New York), England & Wales, and Ireland



Ian O'Connell
Chief Financial Officer







- ✓ Co-founder of Open Orphan plc (renamed hVIVO plc) and one of Amryt Pharma's first team members
- ✓ Chartered Accountant with deep corporate finance experience



Laura Maher VP Clinical Operations







- ✓ Former AD of Clinical Operations at Amryt Pharma
- ✓ Led the clinical research in Amryt Pharma's pipeline including Filsuvez®, the world's first approved epidermolysis bullosa treatment

Poolbeg Pharma - Well Positioned for Success



Industry Leading Team

- Successfully built three public life science companies and achieved multiple exits
- Three key former Amryt
 Pharma leaders recruited with
 a track record of establishing
 and scaling sales
 infrastructures in the US and
 RoW

Revenue Focused Business Model

- Targeting near-term revenue generation from partnering and commercial stage rare and orphan drugs
- Focused on partnering to maximise near term value from in-house programmes

High Value Programmes for Partnering

- POLB 001: Phase 2 ready
 US\$10bn market opportunity
 in cancer immunotherapy induced CRS. Additional
 opportunity for the treatment
 of severe influenza
- Oral delivery technology: targeting obesity with Oral GLP-1R agonist; clinical trial expected to commence 2024
- Al-led discovery programmes, leveraging unique disease progression data in Influenza and RSV

Robust Financial Position

- Cash balance of £12.2m (31 December 2023)
- Focused on near-term revenue generation and profitability

High Value Programmes





Product / Programme		Pre-Clinical	Phase I	Phase II	Phase III
POLB 001 Cancer immunotherapy-induced CRS	>\$10bn Market Opportunity				
POLB 001 Severe influenza					
Oral GLP-1R Agonist Obesity & diabetes treatment	AnaBio M		•		
Influenza Al Programme Utilising unique licensed human viral challenge	data CytoReason				
RSV Al Programme Utilising unique licensed human viral challenge	ONETHREE STOTECH BIOTECH				
Exclusive Option Agreement					
Topical muco-adherent Pentoxifylline (tPTX) Orphan drug candidate for Behçet's Disease		Positioned for a potential 505(b)(2) approval pathway in the U.S.			

Other Partnerships/Collaborations

✓ €2.3m in non-dilutive grant funding secured to develop a Phase I clinical trial ready oral vaccine candidate

✓ Strategic collaboration with Nasdaq listed company for the development of an optimised oral drug to treat a metabolic condition



POLB 001

Large market opportunity while addressing significant unmet medical needs

Cancer Immunotherapy-Induced CRS

Severe Influenza



Cancer Immunotherapy-Induced CRS is a Rate-Limiting Side Effect



Cytokine Release Syndrome

 Severe, potentially life-threatening side effect of cancer immunotherapies

 >70%¹ of patients undergoing CAR T / Bispecific Antibody therapies are affected

The Impact

- Extended hospitalisation, mortality risk, and high consumption of healthcare resources
- Estimated direct costs of managing CRS of US\$5.5Bn per year by 2030^{3,4}



The Unmet Need

- Cancer immunotherapies can only be delivered in specialist cancer centres
- No approved therapy for prevention of CRS and very few approved for CRS management

POLB 001

 Oral administration of POLB 001 to prevent and treat CRS has the potential to enable broader, safer delivery of cancer immunotherapies in an outpatient setting

^{1.} Average rate from Summary of Product Characteristics (SmPCs) for Yescarta, Tecartus, Abecma, Kymriah, Carvykti, Breyanzi, Elrexfio, Columvi, Epkinly, Tecvayli and Talvey.

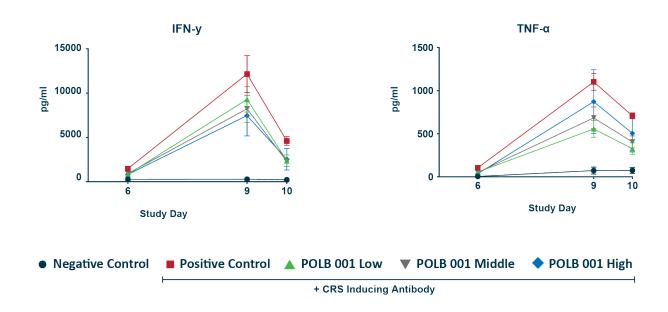
^{2.} Independent research commissioned by Poolbeg. 3. Datamonitor Healthcare. Forecast: Diffuse Large B-Cell Lymphoma and Multiple Myeloma, 2023. 4. Abramson JS et al. Blood Adv. 2021 Mar 23;5(6):1695-1705

Demonstrated a Strong Efficacy/Safety Profile



Compelling pre-clinical and clinical data

POLB 001 Effectively Prevented CRS Validated in an in vivo Animal Model



Phase 1b LPS Human Challenge Clinical Trial



Excellent safety & tolerability profile



Potent target inhibition confirmed



Clear dose response relationship

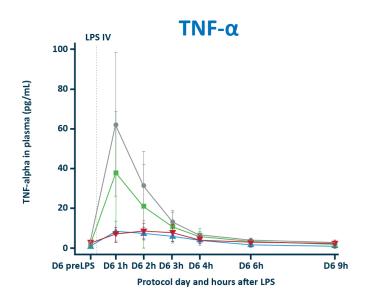


Major reduction of key inflammatory markers

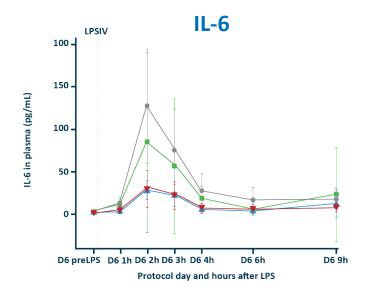
Major Reduction of Key Inflammatory Markers Following LPS Challenge



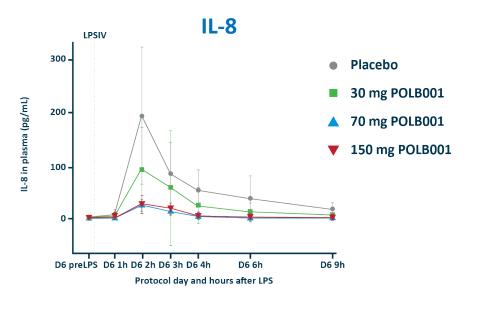
Dose dependent reductions of pro-inflammatory cytokines without ablation of immune function



TNF- α reduction of **73.5% and 56.2%** seen for **70 mg and 150 mg doses respectively** ($p = 0.0003^{\dagger}$)



IL-6 reduction of **57.4% and 63.5%** seen for **70 mg and 150 mg doses respectively** ($p = 0.0002^{\dagger}$)



IL-8 reduction of **80.7% and 76.7%** seen for **70 mg and 150 mg doses respectively** ($p < 0.0001^{\dagger}$)

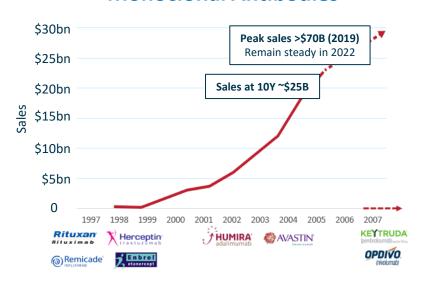
TNF-α, IL-6 and IL-8 levels decreased between 56-81% in subjects treated with 70 mg or 150 mg POLB 001 twice daily

Significant Market Opportunity in a Rapidly Growing Field



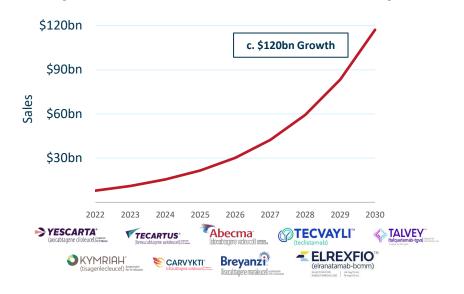
CRS is rate limiting in seamlessly delivering cancer immunotherapies

Monoclonal Antibodies



Bispecific Antibody and CAR T
Therapy market expected to
grow exponentially, similar to
antibodies in the early
2000s. This growth could be
even greater with an
effective CRS preventative

Bispecific Antibodies & CAR T Therapies^{1,2,3}



- Currently no approved therapy for prevention of CRS and very few approved therapies for CRS management
- POLB 001 has the potential to enable broader, safer delivery of therapies to cancer patients in an outpatient setting
- Advancement of cancer immunotherapies is driving the need for effective CRS management

^{1.} Grand View Research. CAR T-Cell Therapy Market Analysis 2023-2030. 2. Grand View Research. Bispecific Antibodies Market Size, Share & Trends Analysis Report.

^{3.} Datamonitor Healthcare. Forecast: Diffuse Large B-Cell Lymphoma and Multiple Myeloma, 2023.

CRS Preventative Therapy: a >US\$10bn Market Opportunity



A significant opportunity exists for POLB 001 as adjunct therapy to BsAb and CAR T treatment



Cancer immunotherapies are used to treat a growing number of cancers, rapid advancements are being made in multiple myeloma (MM), diffuse large B-cell lymphoma (DLBCL) and other cancers



1st, 2nd and 3rd line+ MM and DLBCL patients in the US and EU5, receive CAR T cell and Bispecific Antibody therapy¹

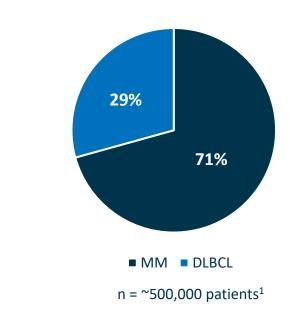


An effective CRS preventative therapy could enable wider uptake of cancer immunotherapies beyond current forecasts due to potential for outpatient administration²



Significant upside potential across additional haematological malignancies, solid tumours and future indications in separate therapeutic areas such as severe influenza

Addressable MM and DLBCL population by 2030 in the US and EU5



Estimate encompasses solely MM and DLBCL due to the rapid advancements in BsAb and CAR T treatment for these indications

CRS Creating a "Bottleneck"



71% CRS incidence in trials

360,000 patients to experience a CRS event

Effective prevention of CRS by POLB 001 may enable broader access to cancer immunotherapies

GRADE 1 CRS 56% Trial population ≈ **500,000** Patients **An effective CRS US\$7,517** Treatment cost ² prevention could remove the bottleneck **GRADE 2 CRS CAR-T 37%** Trial population BsAb Eligible CAR T / Bispecific US\$18,013 Treatment cost 2 patients in US & EU for DLBCL and MM alone far exceeds US\$5.5Bn in 2030 treatment capacity¹ **GRADE 3+ CRS** Estimated direct costs of **7%** Trial population managing CRS US\$61,228 Treatment cost ² "Bottleneck" Delivery of cancer 500,000 patients for treatment by 2030¹

immunotherapies in specialist

cancer centres limits access

Key Opinion Leaders Supportive of POLB 001's Significant Potential

"CAR T therapy inpatient capacity is a challenge, hence measures that reduce hospital stay or make treatment mobile are needed."

Dr Graham Collins, Lymphoma specialist, UK

"Bispecific antibodies will only be delivered in specialist cancer centres until there is a way to make them safer.

POLB 001 could make treatment safe enough to extend bispecifics to a much wider patient population."

Professor Gareth Morgan, US

"The development of an oral CRS preventive therapy will mean no or shorter hospital stays."

Myeloma specialist, FR

"If there was a therapy that was orally delivered, a whole lot of infrastructure requirement falls away."

Dr Martin Kaiser, Myeloma specialist, UK



- Access to CAR T and Bispecific Antibody therapy is restricted to specialist centres and limited by inpatient capacity due to management of CRS
- Prevention of CRS would allow for outpatient administration to enable safer broader delivery of cancer immunotherapies
- POLB 001 profile attractive as a potential oral therapy to prevent and treat CRS



Topical PTX

Potential to transform the lives of patients

Behçet's Disease



Behçet's Disease

Debilitating disease with no cure

- **Oral ulcers** impact essential functions like eating, drinking and speaking
- Inflammation of blood vessels and tissues
- Life-long symptoms after onset
- Current standard of care is inadequate with safety concerns



No. of Patients ¹	Country
~ 350,000	Turkey
~ 19,000²	Japan
~ 18,000	USA
~ 4,800	France
~ 4,800	UK
~ 3,400	Saudi Arabia
~ 1,500	Israel
~ 500	Sweden

Prevalence is highly variable by country, occurring along the Silk Road and in significant numbers in western countries

Topical Muco-Adherent Formulation of Pentoxifylline (tPTX)



Orphan drug candidate for Behçet's Disease

Novel therapeutic with Fast Track and Orphan Designation

Timothy R. Coté, M.D., M.P.H.



- Silk Road Therapeutics CEO
- Former Director of FDA Office of Orphan Products Development
- Implemented Orphan Drug Act
- Presided over decisions on >1,400
 orphan drug designation applications

Potentially transformative

- Formulation designed to deliver therapeutic dose to affected areas
- Phase 2 trial tPTX demonstrated superiority over standard of care
- Secured FDA Orphan Drug Designation and Fast Track Designation
- Positioned for a potential 505(b)(2)
 approval pathway in the U.S.

12-month option agreementSigned April 2024

 Complete due diligence process and engage with Silk Road Therapeutics to further understand the clinical pathway to approval & commercialisation

Behçet's patient in Silk Road Phase II trial



Phase 2 Proof-of-Concept Trial Conducted by Silk Road Therapeutics*



Novel therapeutic with Fast Track and Orphan Designation

Metrics	Phase 2 Trial
Trial Design	 March – July 2019 Conducted under FDA IND in Turkey Randomized 41 patients to SOC (colchicine therapy) or SOC + topical PTX Enrolled patients were required to have at least one new oral ulcer within previous 48 hours
Duration	• 14 consecutive days
Protocol	 tPTX gel applied topically to <u>all existing</u> oral ulcers no less than four times daily using one tube per day
Primary Endpoint	Average index ulcer area
Secondary Endpoints	Pain scoresAverage number of daily ulcers

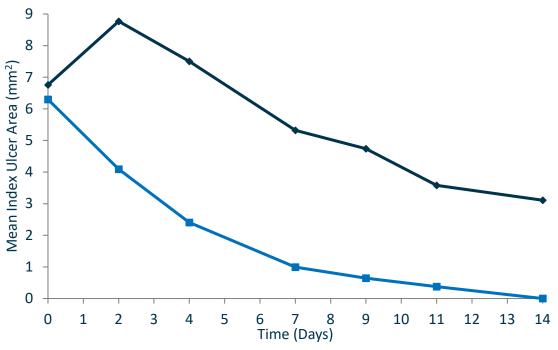
*Trial results as provided by Silk Road Therapeutics

Phase 2 Proof-of-Concept Trial Conduced by Silk Road Therapeutics*



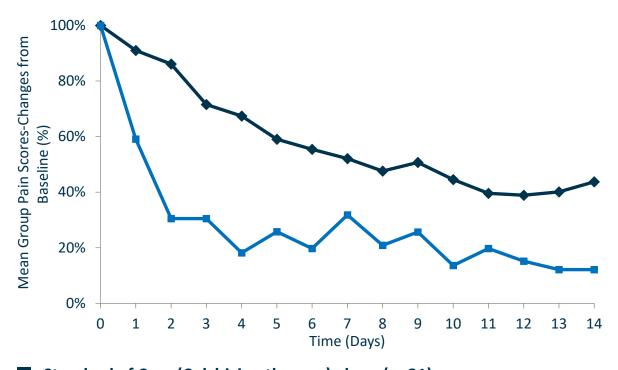
tPTX demonstrates accelerated ulcer healing and decreased pain compared to SOC

Accelerated Ulcer Healing Compared to Standard of Care



■ tPTX + Standard of Care (Colchicine therapy) (n=18)

Decreased Pain Compared to Standard of Care



Standard of Care (Colchicine therapy) alone (n=21)

• Index Ulcer = Largest ulcer at presentation which first appeared within 48 hours of enrollment

*Trial results as provided by Silk Road Therapeutics



Oral Delivery Platform

Proprietary delivery platform to enhance drug stability and uptake

Oral GLP-1R Agonist

Metabolic Diseases



Proprietary Oral Delivery Platform



Capital-light prototype and piloting process enables further strategic collaborations



Obesity: Oral GLP-1R Agonist

- Preparing a proof-of-technology clinical trial to determine that a Glucagon-like Peptide 1 receptor (GLP-1R) agonist can be successfully delivered orally in humans
- GLP-1R agonist market expected to exceed US\$150bn by 2031¹
- Oral GLP-1R agonist trial expected to commence in 2024



Oral Vaccine Programme

- €2.3m in non-dilutive grant funding awarded to Poolbeg-led consortium to develop a Phase I clinical trial ready oral vaccine candidate
- Consortium include UCD, TCD, and AnaBio Technologies



Strategic Collaborations

- Signed a strategic collaboration with a Nasdaq listed biopharma company in Q4 2023 to produce a prototype oral drug for a metabolic condition
- Opportunity to do other similar deals

¹The Economist, March 2023



Artificial Intelligence Programmes

Unlocking insights from unique human challenge trial data

Influenza

Respiratory Syncytial Virus (RSV)



Combining AI and Unique Human Challenge Trial Data to Develop Novel Solutions





Unique and leading human challenge trial data

- Unique RSV and influenza disease progression data from human challenge trials has revolutionised the insights generated using AI analysis
- Multi-parametric dataset clinical, biological and digital
- Controlled environment and clean data maximised signal, minimized noise



Using AI to analyse data

- Unique disease progression data from human challenge trials has revolutionised the insights generated using Al analysis
- Poolbeg has already identified a number of novel targets for influenza and potential treatments for RSV
- Looking to partner to develop these into the clinic



Targeting the host response

- Vaccines and antivirals target the virus itself
- Poolbeg utilises a data-first approach to identify novel targets based on host response to stop or slow disease progression
- This strategy less likely to be impacted by viral resistance

Al-Led Discovery Programmes



Extensive database analysed using leading artificial intelligence technology



Al analysis of Influenza data

Novel influenza drug targets identified and prioritised following positive feedback from Scientific Advisory Board

CytoReason's Partners











Al analysis of RSV data

Novel application of existing treatments for RSV identified and prioritised following positive outputs from lab-based analyses

OneThree Biotech's Partners









Actively discussing the exciting outputs from our Al-led drug discovery programmes with prospective partners

Positioned to Generate Value for Shareholders while Addressing Significant Unmet Medical Needs



High Value Programmes for Partnering

- Focused on partnering to maximise near term value from in-house programmes
- >US\$10bn market opportunity for POLB 001 in oncology alone
- Proof of concept clinical trial commencement for Oral GLP-1RA targeting Obesity in 2024
- AI-led discovery programmes identified drug targets & treatments for Influenza and RSV

Revenue-Focused Business Model

- Targeting near-term revenue generation & profitability from commercial stage rare and orphan drugs
- Option to acquire orphan drug candidate tPTX for Behçet's Disease





Appendix

Non-Executive Directors

A long history of success in the life sciences industry





Prof Luke O'Neill
Non-Executive Director







- Co-Founder Inflazome which was acquired by Roche in 2020 for €380m + milestones
- ✓ Previously scientific advisory board member of GSK & Pfizer



Eddie Gibson Non-Executive Director







- ✓ Market access expert
- ✓ Supported numerous drug companies secure pricing and reimbursement



Prof Brendan Buckley Non-Executive Director





- ✓ Former Chief Medical Officer at ICON plc
- ✓ Former member of Committee for Orphan Medicinal Products & Scientific Advisory Group for Diabetes and Endocrinology at the EMA

POLB 001 – A Human LPS Challenge Trial

Trial design



Evidence for benefit of POLB 001 in the therapy of LPS-induced inflammation

Randomised, double-blind, placebo-controlled, multiple dose, inflammatory challenge trial in healthy volunteers

Challenge **D4 D6** 4 intradermal doses 1 intravenous dose of LPS of LPS Day **D1 to D7** Dosing 30mg **70mg** 150mg IMP x 9 IMP x 9 IMP x 9 Placebo x 3 Placebo x 3 Placebo x 3

Endpoints

Intravenous LPS challenge

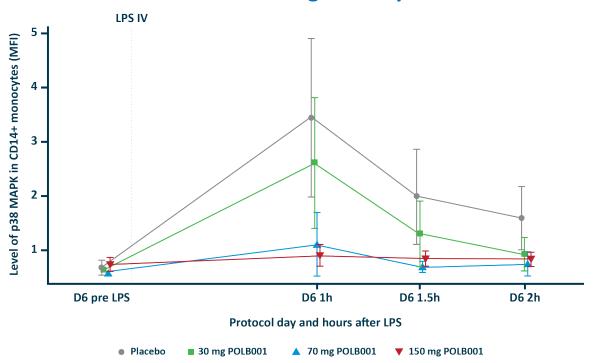
- Bloods (cytokines, vascular markers, CRP)
- Ex-vivo LPS response
- Safety & tolerability (inc. vital signs, AE's, ECG, Haematology)
- Local inflammatory responses were also measured

Potent and Selective Inhibition of p38 MAPK Signaling



Effective target engagement demonstrated in LPS human challenge trial

Levels of Phosphorylated p38 MAPK in Circulating Monocytes



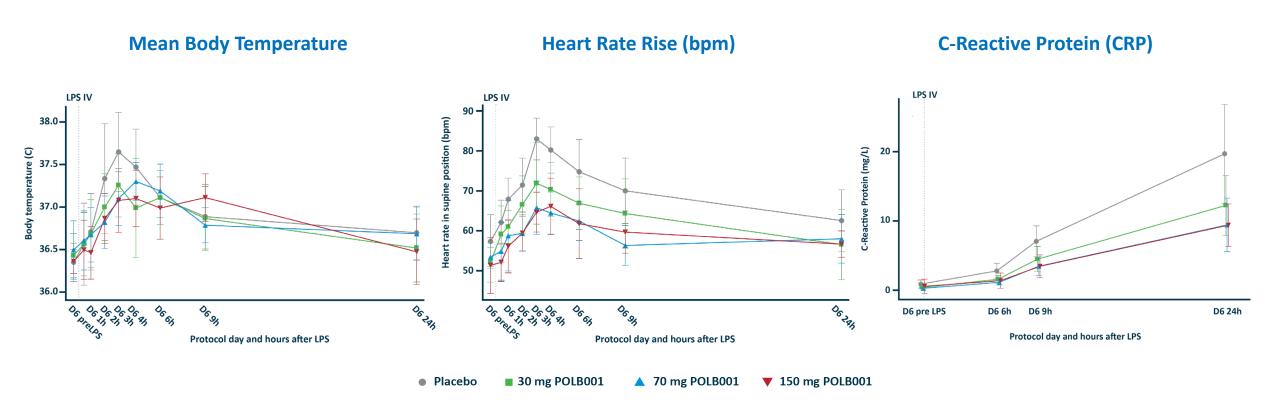
Blood samples were taken before and after administration of intravenous LPS. Peripheral blood samples were analyzed by flow cytometry. Monocytes were gated by FSC, SSC and CD14+. Data is presented as mean MFI values of phospho-p38 +/- SEM

- POLB 001 was widely distributed
- POLB 001 inhibited p38 MAPK activation, direct measurement of activation
- POLB 001 inhibited in vivo and ex vivo responses to LPS-induced TNF-α, indirect measurement p38 activity

Reduced Key Indicators of LPS-Induced Systemic Inflammation



The reduction of systemic cytokines align with improvement in clinically meaningful endpoints



No significant effect on body temperature with a trend towards reduction compared to placebo.

Suppressed increase in heart rate following IV LPS administration

CRP level reduction of **33.1% and 33.3%** seen for **70mg and 150mg** doses respectively

Grades & Severity of CRS



CRS occurs in the majority of CAR-T and Bispecific Antibody treatments

CRS Parameter ¹	Grade 1	Grade 2	Grade 3	Grade 4		
Fever	Fever ≥ 38°C (not attributable to any other cause). In patients who have CRS then receive antipyretics or anticytokine therapy such as tocilizumab or steroids, fever is no longer required to grade subsequent CRS severity. In this case, CRS grading is driven by hospitalisation and/or hypoxia					
Hypotension	None	Not requiring vasopressors	Requiring a vasopressor ± vasopressin	Requiring multiple vasopressors (excluding vasopressin)		
Нурохіа	None	Requiring low-flow oxygen (≤6 L/min)	Requiring high-flow oxygen (>6 L/min)	Requiring oxygen by positive pressure		

ASH Abstract And Poster Presentation





Presentation at 65th American Society of Hematology (ASH) Annual Meeting to provide insight into POLB 001's potential to treat CRS associated with cancer immunotherapies

#2093. POLB 001, an oral broad-spectrum anti-inflammatory with the potential to prevent Cytokine Release Syndrome

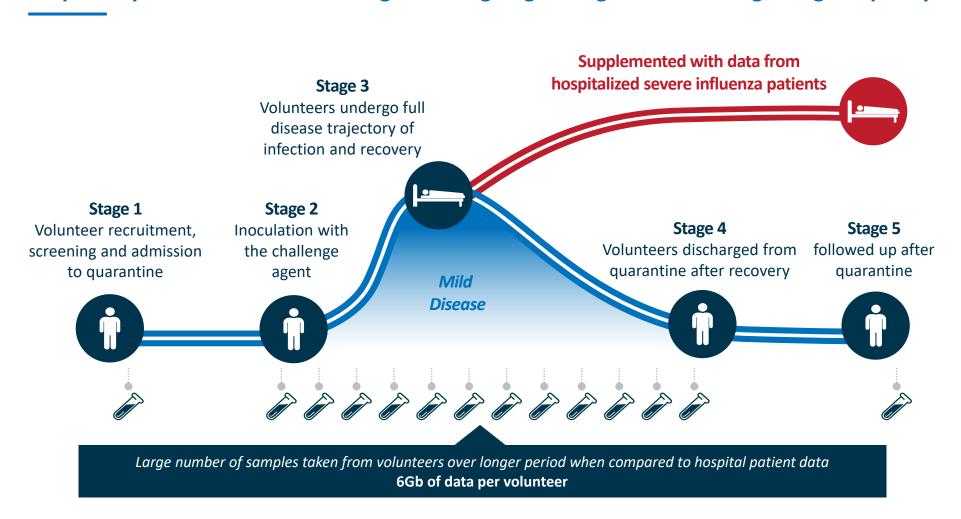
Emma Searle, MD, Liam Tremble, PhD, Rakesh Popat, MBBS, PhD, Digna de Bruin, MD. PhD., Matthijs Moerland, PhD., and Brendan Buckley, Prof, MD.

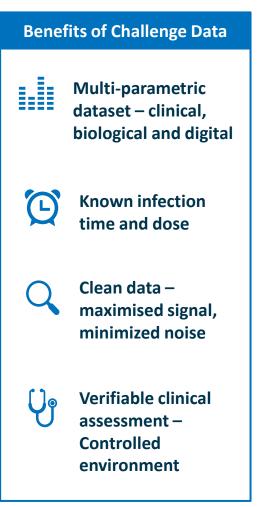
- ➤ Garnered interest from global industry leaders in the field of bispecific antibodies and CAR T cell therapies
- Encouraging discussions have been held with Pharma as they seek solutions for CRS to improve the safety profile and increase the market potential of their therapies

Al Programmes Underpinned by Unique Human Challenge Trial Data



Proprietary data set enables training of cutting-edge AI algorithms leading to higher quality outputs









Stay in touch







