

## H1 2022 Financial Results

September 2022

LSE: ORPH

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## Presenters









## Open Orphan becoming hVIVO



## Why?

- 1. hVIVO is the operating brand
- 2. hVIVO brand is globally recognised by pharma, biotech, academics, and the media
- 3. hVIVO is a long standing, trusted partner to the biopharma industry for its unparalleled expertise and world class capabilities in human challenge trials

Further details		
<b>Completion Date</b> 26 <sup>th</sup> October 2022	<b>ORPH</b> ticker will become <b>HVO</b>	
www.openorphan.com will become www.hvivo.com	Our <b>ISIN</b> will remain unchanged	











# Who we are?

World leader in testing infectious & respiratory disease products using human challenge studies addressing the growing infectious disease market

10+

Challenge Study Models

66

Completed Human Challenge Studies

3500+

Volunteers Inoculated

## hVIVO – H1 Performance Summary





Steady Performance in H1

£18.9M

H1-2022 Revenue £2.3m

H1-2022 EBITDA 12.1% EBITDA Margin £15.9m

H1-2022 Cash Balance



Well Positioned for Growth in 2022

£50m

Reaffirm Revenue Target £9m Revenue in Jul/Aug'22

13-15%

Target EBITDA Margin

80%

FY23 Revenue Contracted as at 1 Sept 2022



**Strong Foundations** 

£80m +

Contracted Orderbook as 1 Sept 2022 1,000+

Increased Weekly Onsite Screening Capacity

4 of Top 10

World's Largest Biopharma as Active Clients



Future-proofing our Operations

**New Models** 

Influenza, Omicron and Malaria models

**New Revenue Streams** 

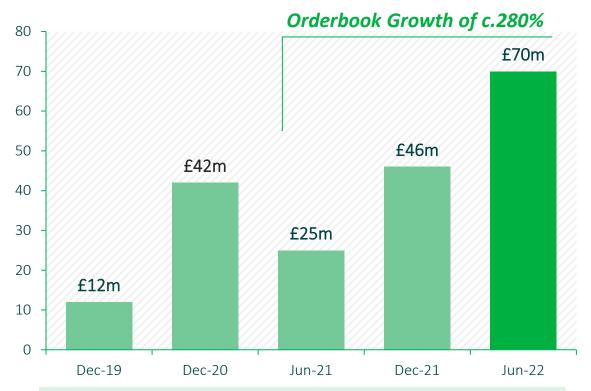
Expanded into Additional Areas

New FluCamp

Screening Centre in Manchester

## Record Contracted Orderbook





### *As at 1 Sept 22:*

- Contracted orderbook of £80m
- Reaffirm £50m revenue guidance for 2022
- c.80% FY23 Revenue Contracted

### Significant contracts in H1 2022

- £7.2m (RSV) challenge trial with top 5 global pharma client
- £7.3m (Influenza) challenge trial with European biotech
- £5m (RSV) challenge trial with European biotech
- £14.7m (Influenza) manufacture, characterisation and challenge study for top 5 global pharma client
- (Omicron) development of COVID-19 challenge model for Omicron challenge trial with Vaxart

#### **Post 30 June 2022**

- £6.2m (Influenza) challenge study with US biotech Cocrystal
- £10.4m (Influenza) manufacture and challenge trial for top 5 global pharma client

## Expanding our Portfolio of Models



Growth in our portfolio of models with particular emphasis on full-service contracts for our Big Pharma clients

### High Value Full-Service Contracts

### **New Omicron Model**

- Developing Omicron COVID-19 model with Vaxart Inc.
- Intention to conduct Omicron challenge studies from 2023 onwards

### Bespoke Influenza Model

- First full-service influenza challenge programme with an existing for a top 5 global pharma client
- Characterisation and challenge study worth £14.7m

### **New Influenza Model**

- Manufacturing a new Influenza model with an existing top 5 global pharma client
- Agreement worth £10.4m to include challenge study

### **Launched New Models**

### **Asthma Model**

- First Asthma Study currently underway with global pharma client
- Pipeline of asthma opportunities growing

### **Malaria Model**

- Malaria human challenge model launched in H1-2022
- Anti-parasite challenge studies to commence in near future

Opportunity for further challenge models to attract additional clients

## FluCamp Recruitment Platform



Patient recruitment is the #1 problem for all CROs

Our FluCamp recruitment platform has an experienced track record of delivering successful recruitment to our trials

250,000+

Active Volunteers in Existing Database

100%

Trial Recruitment Success

c.85%

FluCamp Volunteers can be utilised in non-challenge trials



More than 80% of clinical trials in the US fail to meet their patient enrolment timelines<sup>1</sup>

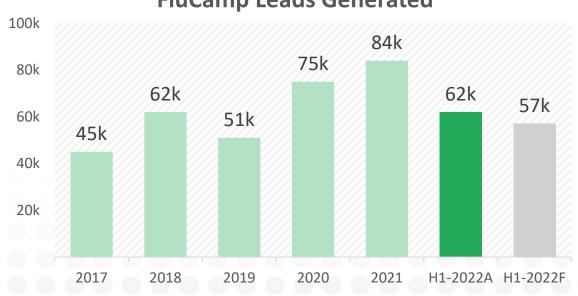


Patient recruitment issues account for 55% of cancelled clinical trails<sup>2</sup>

### H1-2022 FluCamp Improvements

- Online Self Booking
- New CMS system
- Online screening for patients
- Expanded marketing channels up to 3x more leads

### FluCamp Leads Generated



Note (1): Sources: Perspective in Clinical Research

Note (2): Sources: GlobalData

## Delivered on Key Value Adding Initiatives in H1



Continuing to develop new revenue streams to offer new and existing clients additional services

### **Expanding Lab Services**



- Increased volume of lab services contracts with external clients
- Received CAP accreditation, increasing the marketability of our lab services to external clients

### Launch Research Site Services



- Leveraging our upgraded infrastructure at Plumbers Row for use as a clinical site
- First contract signed with Global Pharma company in H1



 Marketing FluCamp to provide trial recruitment as standalone service utlising volunteers not suitable for a challenge study

## Venn is a Key Driver of the Business



Venn offers an integrated package of consulting services from preclinical through late phase and approval; accelerating the development of its clients' products

### 

- 1
- Expansion within our key clients ("land-and-expand")
- Growth into ATMP clinical development services
- Key strategic hires to expand our service offering

### 

2

Client 1 - £5m RSV human challenge study contract stemming from multi-year early clinical development

Client 2 - Secured our first site study award with a Venn client with 20+ year relationship



#### **Venn Life Sciences Services Offering Drug Development** Clinical PK & Non-Clinical **Medical Writing & CMC Consulting Consultancy Pharmacometrics Development Regulatory Affairs** Statistics, Study Design **Trial Management Data Management RTSM Training** & Methodology

## Attractive Market Dynamics



\$46.7B+

The global clinical CRO market was estimated to be worth \$46.7bn in 2021 and to grow at a 10% CAGR to 2024<sup>1</sup>

\$5.5B+

The infectious disease clinical trial market is projected to reach over \$5.5 billion by 2027<sup>2</sup>

£700m+

The estimated market size for challenge study CRO services by 2028<sup>3</sup>

2,500+

Active vaccine, anti-viral and respiratory compounds currently in development – 86% increase from 2019 to 2021<sup>4</sup>

Our Challenge Trials have Supported Breakthrough Therapy Designation with the FDA

### **Bavarian Nordic**

Bavarian Nordic's RSV vaccine candidate, MVA-BN® RSV received Breakthrough Therapy designation in 2022

### **Top 5 Big Pharma**

Breakthrough Therapy designation received following successful phase 2a RSV challenge trial in over 60s

Impact of COVID-19 on Funding for Infectious Disease

- Pandemic Preparedness
- Increased funding for vaccines and anti-virals

Note (1): Sources: Results Healthcare (2021) CRO Sector M&A drivers and market trends

Note (2): Sources: Global Market Insights

Note (3): Sources: Liberum

Note (4): Sources: Pharmaprojects; Citelin

## Why do a Human Challenge Trial?



### **SCIENTIFIC**



Generates invaluable dosing, safety and efficacy data

Helps optimise for larger field trials

## CLINICAL DEVELOPMENT



Requires fewer subjects

Significant time savings

De-risk Phase III program

### **REGULATORY**



Potential for Fast Track or Break Through designation

Potential approval and Emergency Use Authorisation

### **FINANCIAL**



Significant valuation uplift for Biotech sponsor

Allows products to "Succeed fast" or "Fail Fast"

## Partner of Choice for Big Pharma



### Preferred partner for 4 of the top 10 global biopharma<sup>1</sup>

Active Challenge
Studies

with Big Pharma in H1-2022

Full-Service Challenge
Programmes

value exceeding £25m

8 Challenge Studies

signed with Big Pharma since 2018

100% Repeat Customers

Percentage of our Big Pharma customers are repeat customers c.40%

**Contracted Orderbook** 

relates to our Big Pharma clients

### hVIVO's Biotech Clients

- hVIVO work with a large number of biotechs – challenge studies are a key inflection point
- c.60% of our orderbook relates to our biotech customers
- Omicron model developed with key customer
- 3 new biotech challenge clients in H1-2022 (further win in August)
- c.80% repeat business for Venn's biotech clients



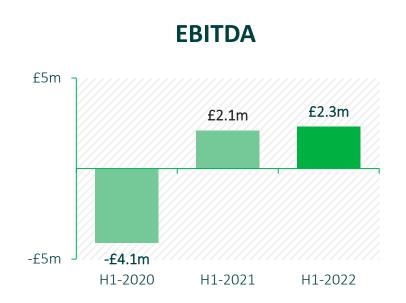
## Summary Financial Highlights



£'m	H1-2022	H1-2021	Comment
Revenue	18.9	23.2	<ul> <li>✓ H1-2022 revenues of £18.9m</li> <li>✓ 2022 revenue weighted to H2</li> <li>✓ Reaffirm revenue guidance of £50m for 2022</li> <li>✓ Revenue for July &amp; August 2022 of c.£9m</li> <li>✓ hVIVO division is the core growth driver representing over 80% of H1-2022 revenue</li> <li>✓ Venn division is expanding services &amp; increasingly supporting hVIVO studies</li> </ul>
EBITDA	2.3	2.1	✓ EBITDA margin increased to 12.1%
Cash	15.9	14.9	<ul><li>✓ Strong working capital management</li><li>✓ Cash of c.£20m as at 1 Sept. 2022</li></ul>
Order Book	70	25	<ul> <li>✓ Orderbook increased almost threefold year-on-year</li> <li>✓ Increased to c.£80m as at 1 Sept. 2022</li> </ul>

## A Sustainably Profitable & Cash Generative Business





- Increased H1-2022 EBITDA of £2.3m
- Improved productivity gains in operations & overhead efficiency





- H1-2022 EBITDA Margin increased to 12.1%
- Growth towards sustainable double digit EBTIDA margin of 13–15%



- Strong cash position with £15.9m as at 30 June 2022
- Cash generative with modest investments made to improve infrastructure
- Cash balance as at 1 Sept. 2022 of c.£20m

## Market Consensus





### Revenue

- Full year guidance remains at c.£50m revenue for 2022 (revenue for July & August 2022 of c.£9m)
- Drive efficiencies and productivity to achieve double digit EBITDA margin for full year 2022
- Focus on orderbook conversion into 2023 targeting c.£55m of revenue – c.80% of 2023 revenue already contracted
- Continue to close strong sales pipeline and progress development of new revenue streams

### Investment Case



## **↓** 01 Strong Market Dynamics

- Attractive market dynamics across rapidly growing infectious disease space
- World leader in challenge trials for infectious and respiratory disease
- Increased adoption of challenge trials by Big Pharma

## $\sqrt{\phantom{0}}$ 03 Trusted Partner

- Repeat revenue with big pharma; a trusted "go-to" partner; served 4 of top 10 global biopharma in H1-2022
- Increased volume of biotech awards

## **↓** 02 Scalable Infrastructure

- Investment in the operational infrastructure to deliver further growth
- Increased bed capacity
- Expansion of FluCamp screening platform

## √ 04 Orderbook Growth

- Record order book of c.£80m as at 1 September 2022
- Growth in new models; expansion of pipeline
- Growth into new revenue streams e.g. site services, lab services

Support continued revenue growth and long term, sustainable profitability

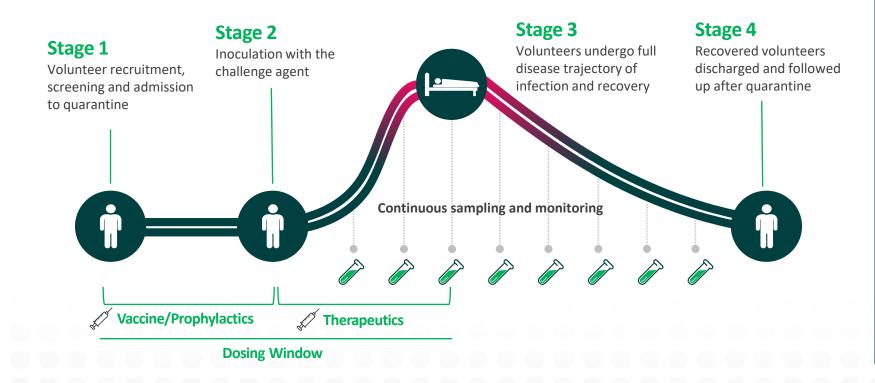




## What is a Human Challenge Trial?



### Progression of a Volunteer While in Quarantine During a Typical Human Challenge Trial



- ✓ Generic screening
- √ Volunteers are randomly stratified to placebo or active
- ✓ All volunteers are inoculated with the challenge agent (virus)
- ▼ Trials typically include 50-100 healthy volunteers
- ✓ Quarantine duration: 10-15 days
- ✓ Outpatient follow-up visits

## History of hVIVO





### 1945

UK Government establishes the human challenge Common Cold Unit in Salisbury, UK.



Common Cold Unit closes.

Retroscreen Virology is RETROSCREEN VIROLOGY CONQUERING VIRAL DISEASE founded by Prof John
Oxford & Pat Meeking



First human challenge trial takes place

### 2001-2007

Retroscreen recruits 800+ influenza volunteers



FLUCAMP.COM

Volunteer coins the name FluCamp



Major investment in facilities & challenge model development



Retroscreen Virology rebrands as hVIVO



hVIVO acquired by Open Orphan

2020

UK COVID CHALLENGE

hVIVO partner with UK Government to conduct world's first COVID-19 challenge trial



2021 POOLBEG PHARMA

Spin out of infectious disease product portfolio: Poolbeg Pharma plc



2022 Clinical Trials Recruitment

Expanded facilities to 62 beds; increased lab offering and expanded clinical trial offering; rebrand as hVIVO

Continuing to expand offering to drive new streams of revenue

## RSV Human Challenge: A tool for a break-through designation





### The Challenge

To speed up the development process by achieving fast proof of efficacy to fast-track regulatory discussions

days to obtain CA/EC approval



The Solution

Phase IIa, double-blinded, placebo-controlled human challenge

volunteers recruited on time



The Result

79% efficacy in preventing symptomatic infections



Break-through designation



De-risk Phase III clinical trials



weeks to recruit volunteers with a 85% screenfailure rate



"I was really impressed by the professional and timely implementation of this trial, helping us to bring our RSV vaccine candidate into late-stage development. The collaboration with your team was really enjoyable, everyone in your team was highly supportive."

Dr. Med. Heinz Weidenthaler (VP, Clinical Strategy)

## Facilities Overview



### QMB Clinic

### QMB Laboratories

















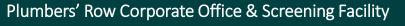




## Facilities Overview



### Whitechapel Clinic and Screening Centre



















### Manchester Screening Centre







### Biobank

