





H1 23 Presentation

September 2023

Ticker: HVO

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Presenters









Mission

Delivering today's healthcare by empowering tomorrow's innovation.

Vision

To transform global healthcare by revolutionising the drug development process through scientific ingenuity.

Values

- ✓ Innovation & Agility
- ✓ Growth
- ✓ Integrity & Welfare
- ✓ One Team

Strong H1 Performance & Full Year Upgrade





Delivering Record H1 Financial Performance

£27.3M

Revenue¹ H1 2022: £18.0m 19.1%

EBITDA Margin H1 2022: 12.6% £31.3m

Cash Balance at 30 June 2023



Exceptional Operational Execution

70

Human challenge trials completed

4,000

Volunteers inoculated

74k+

FluCamp Leads Generated in H1 23



Expanding our Service Offering

New Facility

Canary Wharf: opening H1 24

New Models

hMPV & Flu B

Repurposing Volunteers

Contract signed



Upgrading our Full Year Guidance

£55m

FY23 Forecast Revenue_{1,2}

c.19%

FY23 EBITDA Margin Guidance £78m

Weighted Contracted Orderbook (30 June 2023)

¹The Group will now report revenue excluding other income, such as R&D tax credits. Other income in H1 2023 was £1.4 million (H1 2022: £0.9 million).

²Revenue excludes £2 million of forecasted other income, such as R&D tax credits.





Stephen Pinkerton

Chief Financial Officer

Strong financial performance

52% Increase in Year-on-Year Revenue





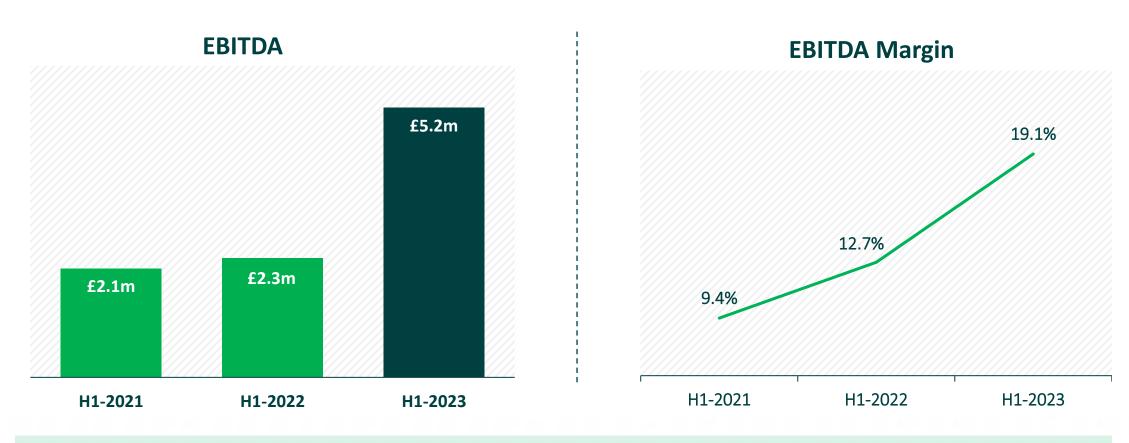


- H1 revenue 52% increase on H1 2022
- Key Drivers include:
 - Strong order book
 - Multiple studies being conducted concurrently
 - Increase in study size
 - Full service contracts with manufacturing & characterisation
- Venn Life Sciences delivering 20% + growth

¹The Group will now report revenue excluding other income such as R&D tax credits. Other income in H1 2023 was £1.4 million (H1 2022: £0.9 million).

EBITDA Margins Continue to Increase



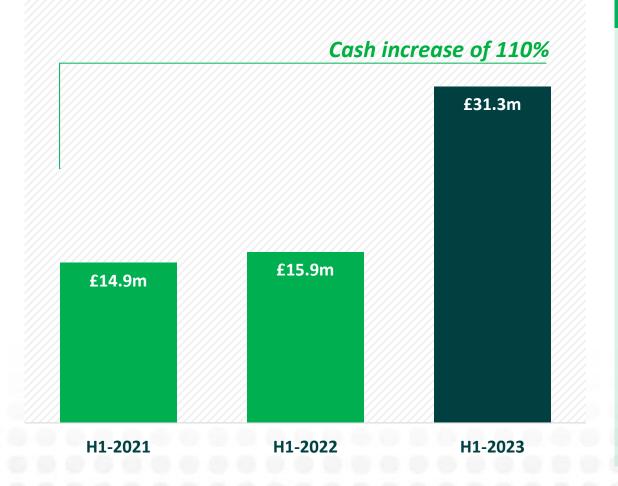


- H1 EBITDA of £5.2m, representing a 129% increase in EBITDA from H1 2022
- H1 EBITDA margin of 19.1% is a significant increase from 12.7% in H1 2022
- Margin growth is underpinned by better quarantine and staff utilisation rates
- Consistency in volume of work aligned with operational improvements have optimised our business model

Strong Cash Generation Across H1 2023



Cash

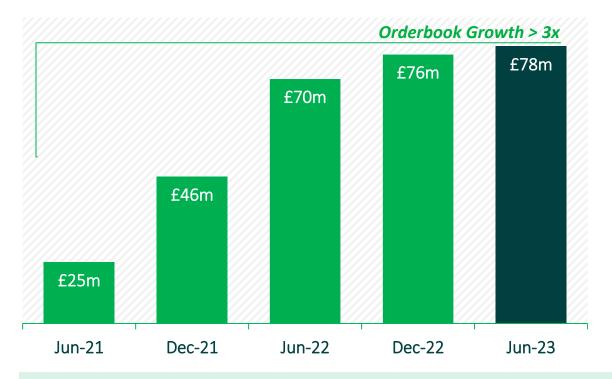


- Strong cash position with £31.3m as at 30 June 2023
- This is net of a £3m special dividend paid to shareholders on 9 June 2023
- The Company remains debt-free with robust net working capital
- Contracts structured to remain cash flow positive throughout the study
- Key drivers:
 - Continued increase in orderbook & related advance fees
 - 2. Modest spend on capital
 - 3. Strong operational delivery

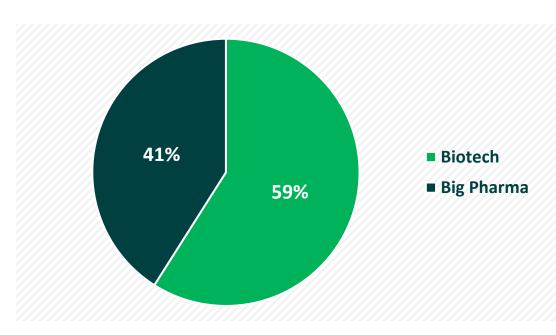
Record Net Contracted Orderbook Continues to Grow



Net Contracted Orderbook



Contracted Orderbook Weighting by Client Type



- Orderbook continues to grow after record revenue performance
- 1 full-service contract win in hMPV
- 1 bespoke challenge model contract Flu B

- APAC Biotech challenge study win
- Global Pharma consulting contract win for Venn €3.2m
- Majority of 2024 revenue covered by existing orderbook



Operational Highlights

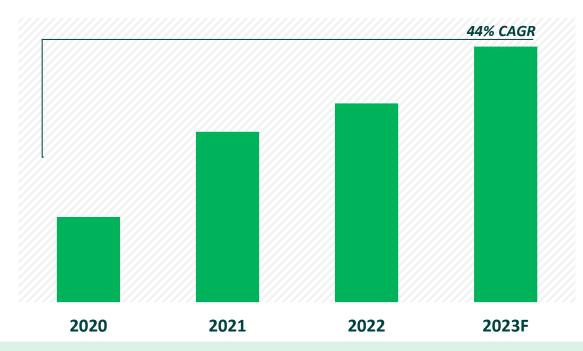




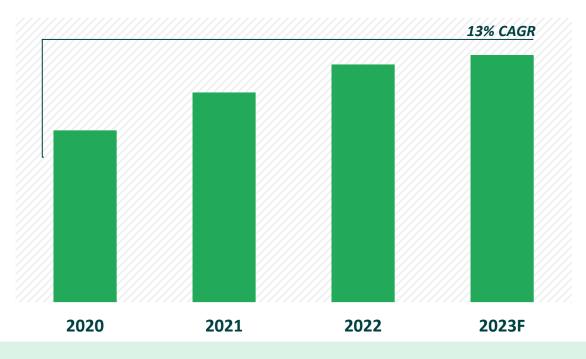
Increasing Demand for Human Challenge Trials (HCTs)



Increasing Number of Active HCTs



Increasing Number of Volunteer Inoculations per HCT per year



- Higher number of HCTs:
 - Increased demand for HCTs
 - Multiple challenge agent models
 - Improved volunteer recruitment
 - Concurrent conduct of trials

- Larger sample size (#volunteers/trial)
 - Achieves greater utility of data
 - Targeting lower frequency endpoints
 - Comparing dose regimens
 - Optimising platform selection

Unique End-to-End Human Challenge Service





Swab collection from community acquired disease



Isolate virus & produce GMP grade virus batch



Conduct characterisation study to determine best dose of virus



Model Developed: Conduct Human Challenge Trial (HCT)

Typical challenge study starting point

Further diversifying hVIVO's leading portfolio of human challenge models



Broader scope of work resulting in increased revenue (manufacture, characterisation, challenge) 2

Bespoke end-to-end challenge service enable hVIVO to match to our clients' specific target strain



Subsequent use of newly developed models across new and existing clients

Recent Contracts (all £10m+)

- Bespoke Influenza model with Big Pharma client
- New Influenza model with Big Pharma client
- hMPV model with US Biopharma
- Bespoke Influenza B model with Big Pharma client



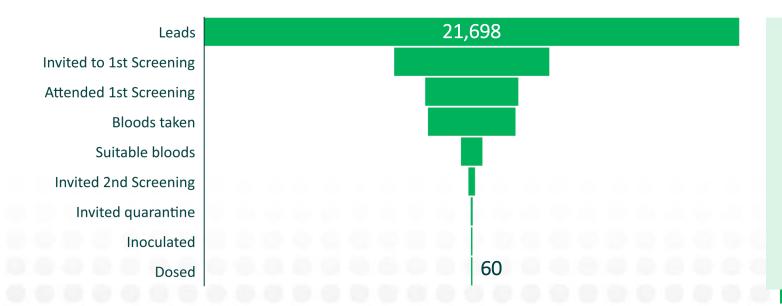
Profile of a Challenge Trial



Biotech goal: use data to raise funding & de-risk late-stage field trials

03-Nov-20	08-Mar-21	30-Mar-21	18-Jun-21
Charles Assessed	Final Protocol	Filting and Descriptions	Full Filting and Demilations
Study Award	Findi Protocol	Ethics and Regulatory committee submission	Full Ethics and Regulatory committee approval
21-Jun-21	31-Aug-21	19-Nov-21	02-Jun-22
F: 10 1: 1	1 1011	D. 11 TC	F: LCCD
First Subject First IMP Dose	Last Subject Last IMP Dose	Priority TFLs	Final CSR

7,695	Lab samples processed	
11	Quarantine Days per volunteer	
1	Out-patient follow-up visit	

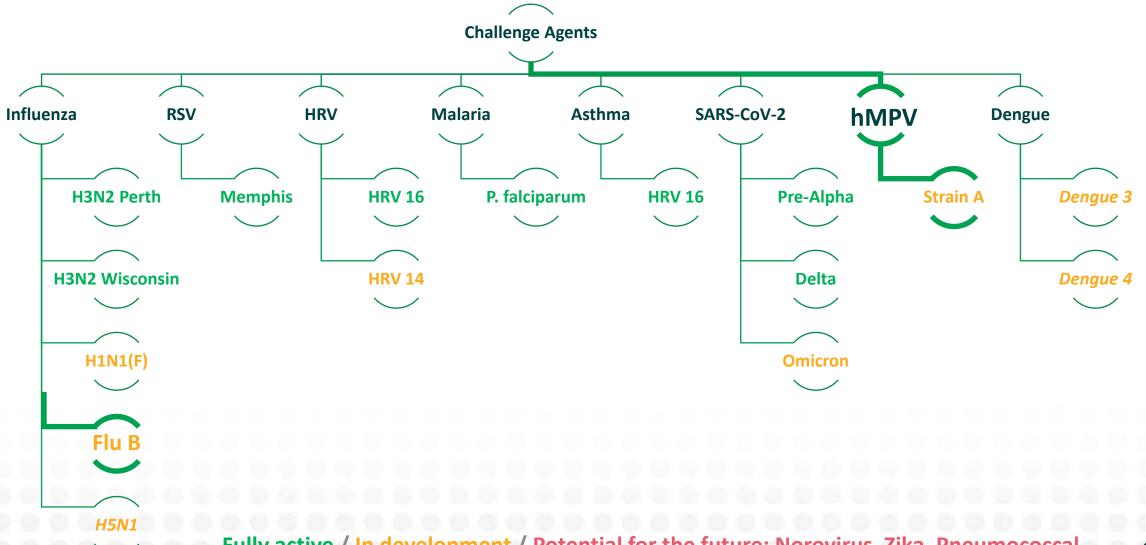


The Result

- Rapid positive efficacy data
- Support fundraising activities
- Endpoints confirmed for later stage trial
- Received Fast Track designation
- Currently in late-stage trials

World Leading Human Challenge Model Offering





New Models



Influenza B: Increases capabilities to Type B Influenza

hMPV: Increasing interest by global biopharma



Influenza B has significantly increased in 2023 Flu season in Australia (1)

4-18%

Of people with lower respiratory tract infections have hMPV (3)



Generally lower incidence than Influenza A but disease is just as severe (2) 5-16%

Of children infected with hMPV develop more severe symptoms (4)



Very difficult to run field trials in this indication due to unpredictable incidence

>16K

Deaths worldwide in children under 5 years could be attributed to hMPV (5)



A number of vaccines have failed in efficacy against this specific strain

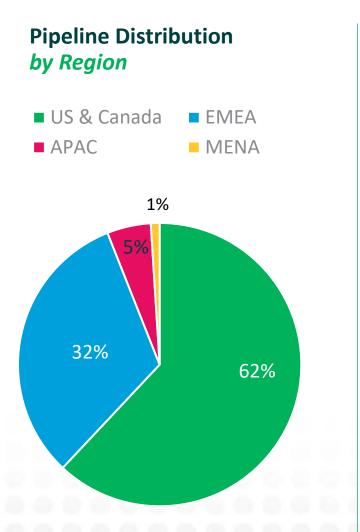
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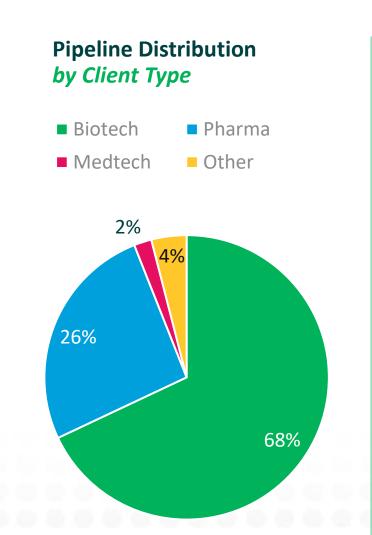
No vaccine or specific antiviral treatment approved to treat hMPV (6)

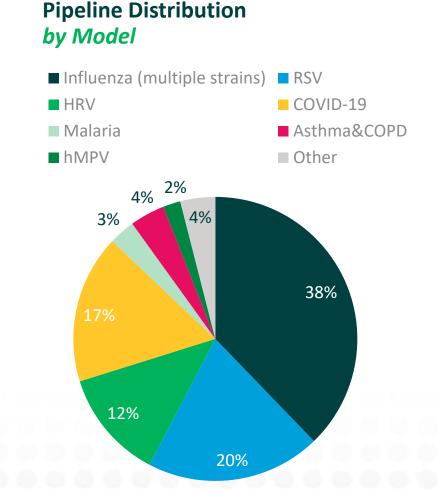
Increases the potential to conduct combo-vaccine HCTs

Diverse and Growing Sales Pipeline









New Services Drives Margin Growth





New synergistic services under review

Venn - Continuing to Grow and Expand



Seamless drug development support service ("Bench-to-Bed")



20%+ year-on-year revenue growth driven by Venn's early clinical services

18%

Increase in Venn employees year-on-year



Investment in key growth areas - ATMP & Drug Device Consulting

75%

Repeat Business

Paris

Delivering key services to hVIVO's challenge studies



Cross-selling clients to hVIVO services

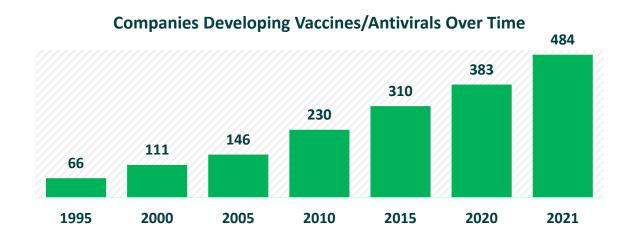
New office at Leiden Bio Science Park

Driving collaboration & interaction with potential customers from the largest life science community in Benelux



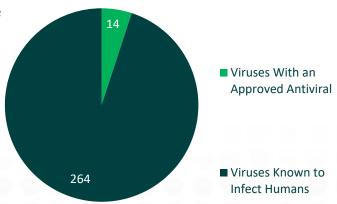
A Growing Market

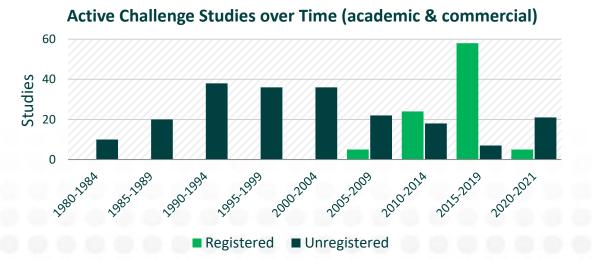




- Increasing number of vaccines and antivirals in development
- Need for new and improved vaccines & treatments
- Increased awareness of the value of HCTs
- Tighter funding environment increases HCT need

Antiviral development has been strong, but there is still plenty of room for further research.





Source: Informa (Mar 2022). The Economist (Mar 2022).

Source: MCSI, Informa (Mar 2022)

New Facility – Canary Wharf





WHY NOW?

- Customer demand & orderbook
- Lack of space beds & lab
- Availability of right facility, right price
- Customer funding
- Current leases



FINANCIAL IMPACT

- Nominal cost to the Company
- Similar lease costs over 10 yrs
- Reduced cost / bed
- Potential to improve margins
- Raised revenue cap
- Potential for future growth



OPERATIONAL IMPACT

- Expedite delivery
- Multiple concurrent trials
- Increased lab capacity
- Consolidation of quarantine beds
- Improved bed / staff utilisation



EMPLOYEE IMPACT

- Company culture
- ESG
- Improved facilities for our staff and volunteers



New State-of-the-Art Facility to Meet Growing Demand



50 quarantine bedrooms with potential to increase to 70

Larger virology and immunology lab



Outpatient unit to facilitate Phase II and III field trials

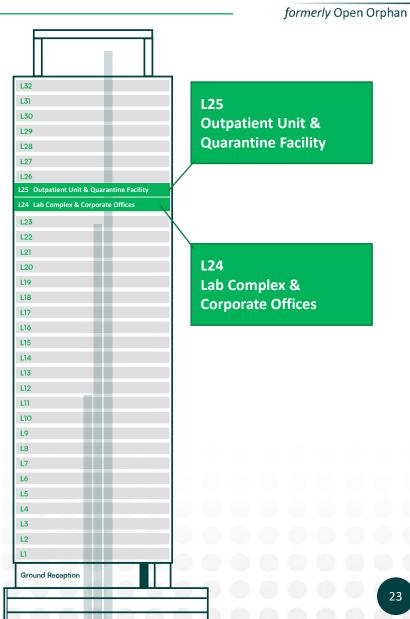
Corporate Offices



- 10-year lease, 5-year break
- Reduced aggregate rent per sq ft
- Rent cap in place
- >30% more usable space



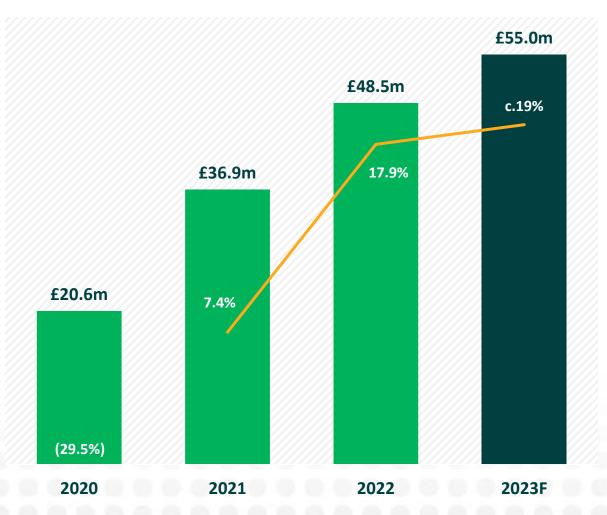
Plumbers Row and Manchester FluCamp screening facilities and outpatient unit will continue to serve as convenient locations for prospective volunteers



Guidance Upgrade



Upgrading Revenue¹ & EBITDA for 2023



Full Year Outlook

- Upgrading full year revenue guidance to £55m for 2023
- Upgraded 2023 revenue guidance is fully contracted
- Upgrading 2023 EBITDA margin to c.19%
- Visibility of contracted revenue into H2 2024
- Intention to pay a nominal annual dividend, dividend policy to be set out in 2024

Investment Case







Excellent Performance

- Strong revenue, EBITDA, and sales
- Robust cash position
- Improving operational efficiencies and margins



Growing Revenue Streams

- New 50-bedroom facility
- Increased lab capacity
- Increase outpatient capacity
- New services





Record Visibility

- Guiding £55m revenue 2023
- c. 19% EBITDA margin 2023
- Fully contracted for 2023 revenue
- Significant visibility into H2 2024
- Nominal Annual Dividend

A long-term sustainable growth model





Expanding Market



High Barrier to Entry



Strongest Ever Sales Pipeline







Appendix

History of hVIVO





1946

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





Dec 2019

hVIVO acquired by Open Orphan

Venn acquired by Open Orphan

June 2019

UK COVÎD CHALLENGE

2020

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



RETROSCREEN VIROLOGY CONQUERING VIRAL DISEASE

1989

Common Cold Unit closes. Retroscreen Virology is founded by Prof John Oxford & Pat Meeking

2015

Retroscreen Virology rebrands as hVIVO

POOLBEG PHARMA

2021

Spin out of infectious disease product portfolio: Poolbeg Pharma plc

2001

Retroscreen's first human challenge trial

2001-2007

Retroscreen recruits 800+ influenza volunteers



2011-2015

Major investment in facilities & challenge model development

2008

Dedicated Volunteer recruitment platform

FluCamp

Clinical Trials Recruitment

2022

Expanded facilities; increased lab offering and expanded clinical trial offering



Open Orphan plc rebranded to hVIVO plc

Continuing to expand offering to drive new streams of revenue

Benefits of Human Challenge Trials



SCIENTIFIC



Generates invaluable dosing, safety and efficacy data

Helps optimise for larger field trials

De-risks Phase III programs

CLINICAL DEVELOPMENT



Requires fewer subjects

Significant time savings

No seasonal dependance

REGULATORY



Potential for Fast
Track or Breakthrough
designation accelerating time to
market

Potential approval and Emergency Use Authorisation

FINANCIAL



Significant valuation uplift for Biotech sponsor

Quick, cost-effective data in a tight funding environment

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

FluCamp Recruitment Platform



Volunteer recruitment is the #1 challenge for all CROs

230,000+

Volunteers in Database

940,000

FluCamp.com visits H1 23

100%

Trial Recruitment Success

225,000

Calls made H1 23

Improvements

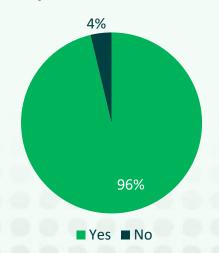
Driving increased throughput and efficiency

74,000

Leads generated H1 23

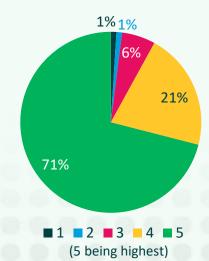


Would you recommend FluCamp?

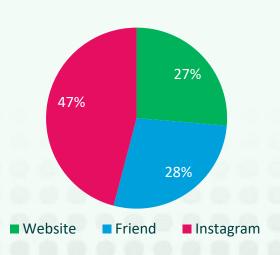


Note (1): Sources: Perspective in Clinical Research Note (2): Sources: GlobalData

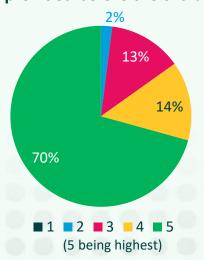
How would you rate the food?



How did you hear about FluCamp?



How do you rate the information provided before the trial?



Significant Barriers to Entry



1. World leading challenge model portfolio

- The broadest range of challenge agents on the market
- Continuing to expand our offering based on market demand

2. Unparalleled expertise & experience

- History dating back to 1945 Common Cold Unit
- UK regulators are strong supporters of challenge trials
- Highly efficient in challenge virus manufacturing and characterisation
- Team of world leading experts
- Excellent track record of success for our clients

3. FluCamp volunteer recruitment

 In house recruitment capabilities with 100% success rate

4. Strong client base

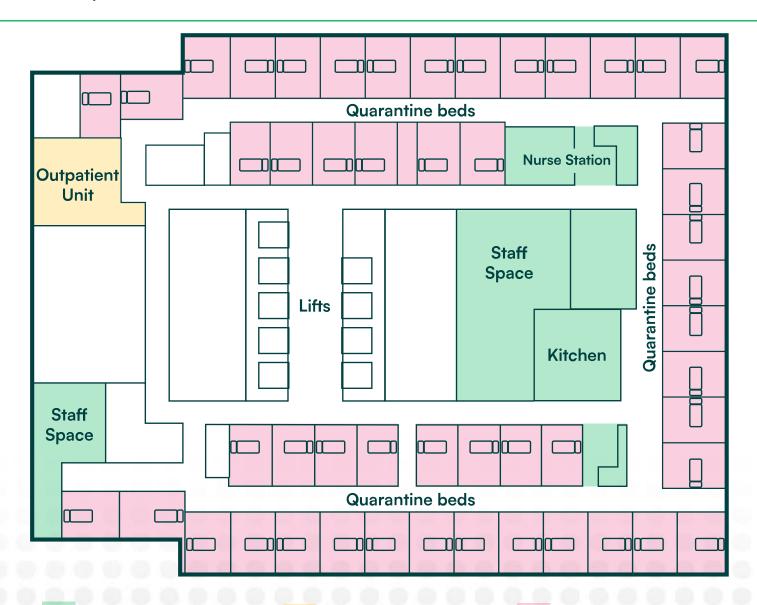
- Diverse customers across the biopharma sector
- Preferred partner for 4 of the top 10 global biopharma
- Expected that these influential decision makers will continue to have a positive impact on demand

5. State-of-the-art facilities

- Multiple quarantine sites the only commercial-scale infection control facility
- Volunteer screening sites in London & Manchester
- Specialised onsite virology and immunology
- Vaccine field study site in Central London

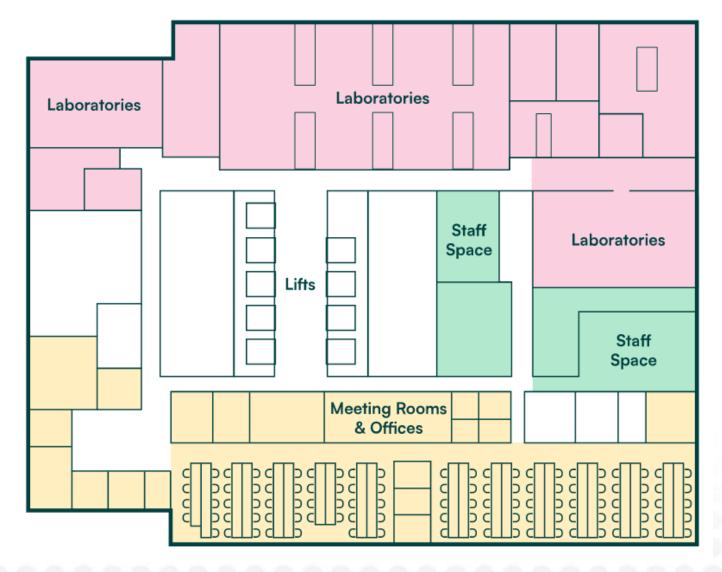
Level 25 - Quarantine





Level 24 - Labs & Corporate Office





Environmental, Social, Governance



hVIVO ESG Group established in 2023 for initiating, progressing, and monitoring our ESG objectives

Canary Wharf have a strong focus on ESG and will help us to reach our goals for improving and enhancing or corporate social responsibility

hVIVO's ESG Values

- Commitment to ethical & compliant business practices
- Advancing Heath & Research

Commitment to Volunteers & Patients

4 Commitment to our Staff

Social & Community
Investment

6 Operating Sustainably

Canary Wharf ESG



Facilities Overview



QMB Clinic



QMB Laboratories

















Facilities Overview



Whitechapel Clinic and Screening Centre







Plumbers' Row Corporate Office & Screening Facility









Manchester Screening Centre







Biobank



