





Company Presentation

March 2024

Ticker: HVO

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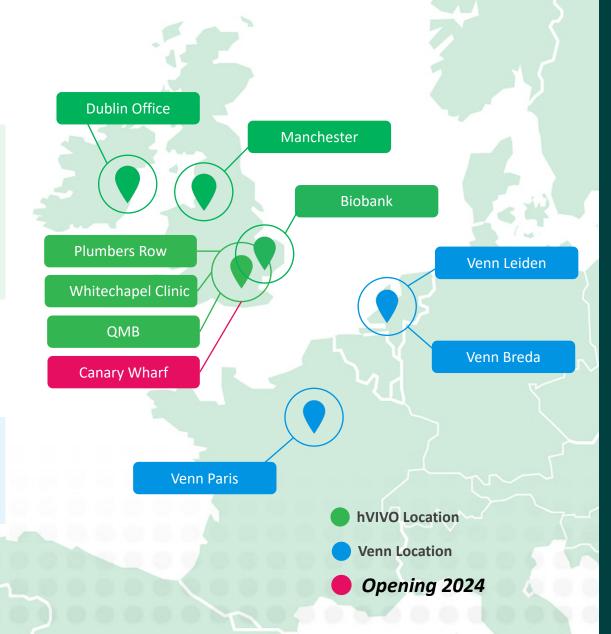
Company Overview



- World Leader in Human Challenge Trials
- Onsite Virology Laboratories
- FluCamp: tech-enabled volunteer and patient recruitment platform



- Early Clinical Drug Development Services
- Biometric services



Who we are

Mission

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

Vision

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

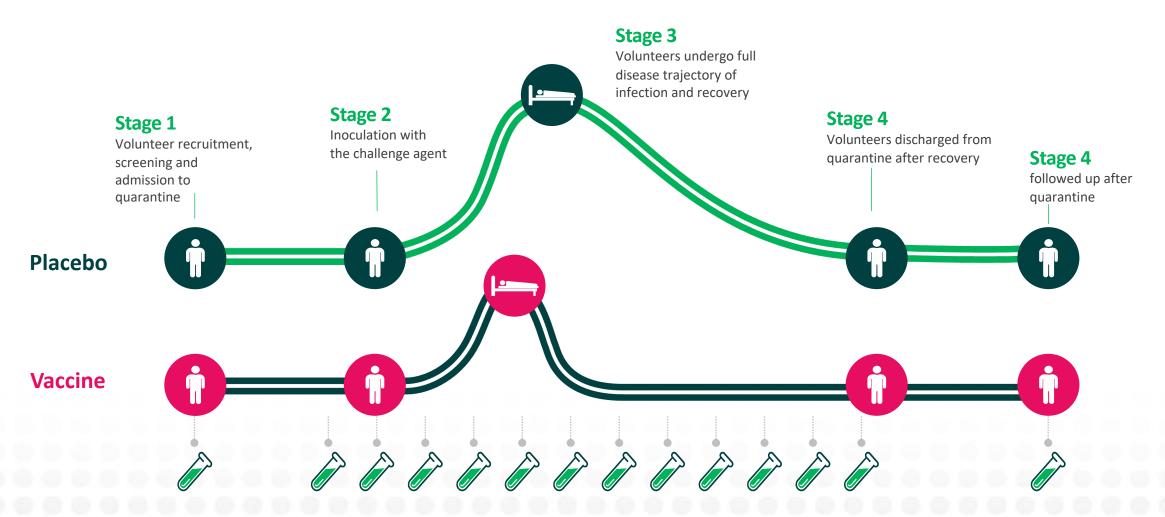
Values

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

What is a Human Challenge Trial?



A clinical trial where healthy volunteers are exposed to a pathogen to test the effectiveness of vaccine and treatments...



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



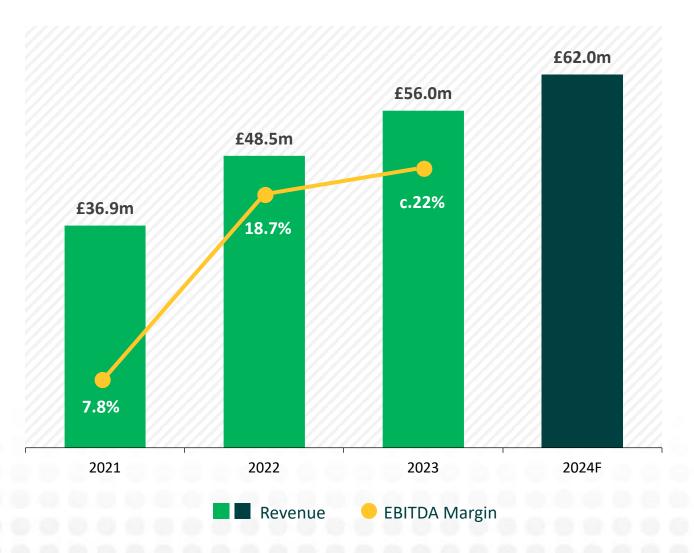
Significant valuation uplift for Biotech sponsor

Quick, cost-effective data in a tight funding environment

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

Revenue / EBITDA Profile





- Revenue: 15% YoY growth
- New sales strategy
- New operational model
- Concurrent trials
- £37m in cash (end '23)
- Strong orderbook

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
- RSV model with Big Pharma client



FluCamp – Driving Efficiency in Volunteer Recruitment





97%

Volunteers who complete a trial would recommend FluCamp to others¹



Average Trust Pilot rating

More 5-star reviews than competitor clinical trials companies

88%

Volunteers rate enrolment process as **GOOD to EXCELLENT**¹

>50%

UNIQUE website visits to FluCamp.com in 2023 than our nearest CRO competitor²

>17k

Volunteers screened in 2023



PROFESSIONAL UK based engagement centre supporting enrolment and onboarding activities

8

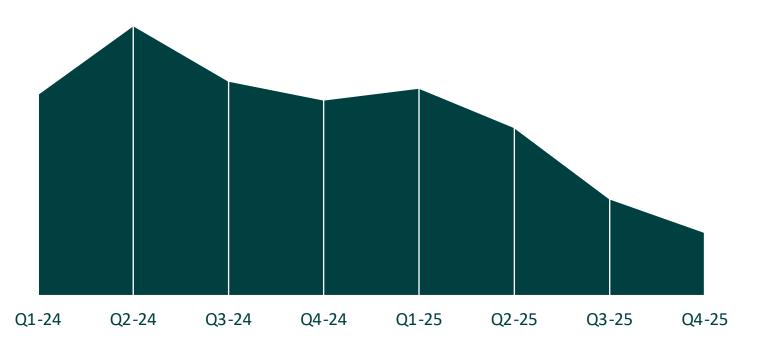
Record Contracted Orderbook



Net Contracted Orderbook



Gross Orderbook Providing Record Visibility

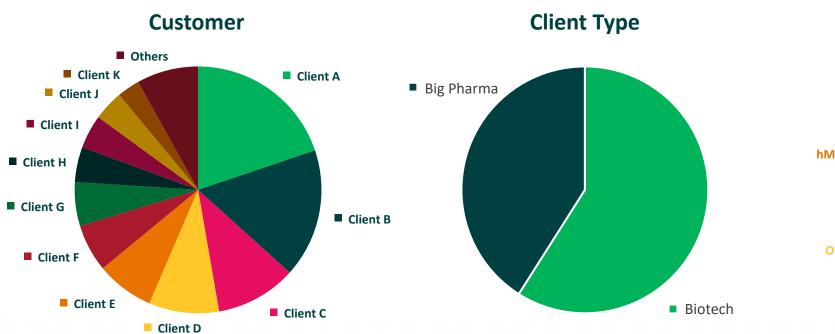


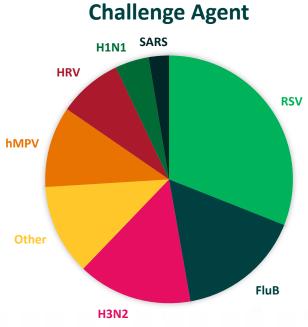
- Strong sales performance in 2023
- Growing orderbook after record revenue performance
- 90% of 2024 revenue covered by existing orderbook
- Good visibility into 2025

- £16.8m full-service RSV contract
- Bespoke hMPV challenge model contract
- £13.1m bespoke Flu B challenge model contract
- €3.2m Global Pharma consulting contract with Venn

Diverse Contracted Orderbook



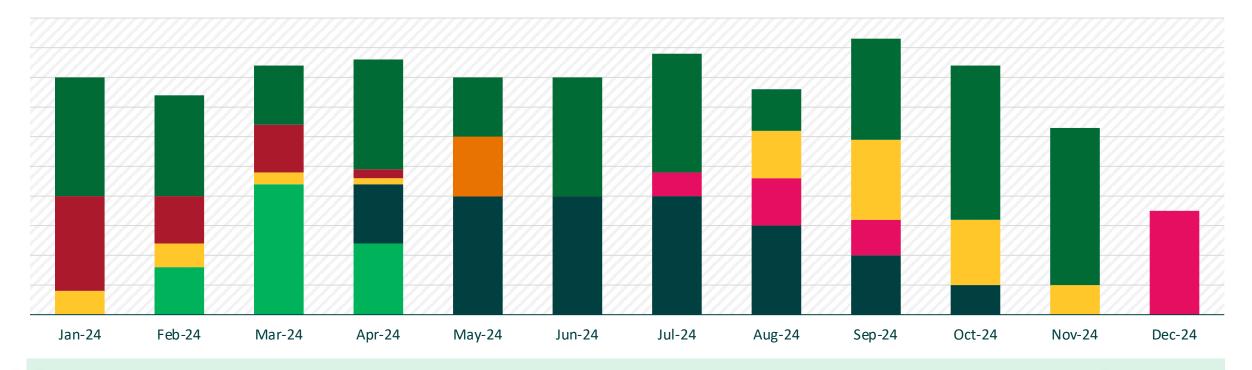




Diverse Orderbook - Driving Efficiencies



#Inoculations by Challenge Model 2024



- Goal: utilise 3 different virus agents per month
- Multi-agent screening of volunteers
- Improves project delivery

- Increases efficiency
- Improved resource and site utilisation

New State-of-the-Art Facility at Canary Wharf

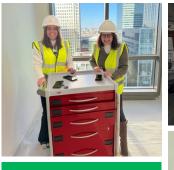


On track to open H1 2024

- 50 quarantine bedrooms
- Virology and immunology lab
- CL-3 Lab
- Outpatient unit
- Corporate office

Foundation for growth

- Largely funded by clients
- Reduced cost per bed
- Aligned with current leases
- Potential to improve margins
- Increased revenue cap







Progress Report

- √ Floor plan and interior design
- ✓ Electrical & mechanical install
- ✓ Wall installation
- ✓ Ventilation system
- ✓ Nursecall system

- ✓ Flooring
- ✓ Painting
- ✓ Lighting
- ✓ Quarantine doors
- ✓ Ensuite bathrooms









Improving Automation – Driving Efficiency



Shifting from paper-based processes to a fully integrated digital system

Lab Information Management System (LIMS)

- Streamlined lab processes
- Enhanced interrogation readiness
- Integrated lab operation
- Improved efficiency

Volunteer Management System

- End-to-end visibility of volunteer journey
- State-of-the-art CRM system
- Improving volunteer recruitment process
- Segmentation & profiling driving efficiency

eConsent / eSource / EDC

- Volunteer consent
- Instant access to data
- Increased compliance
- Enhanced study oversight

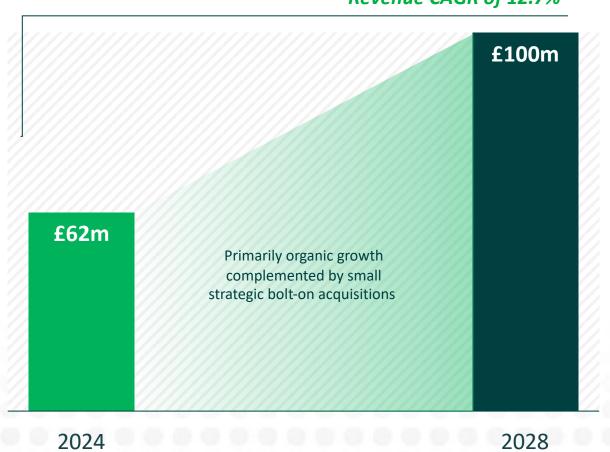


Targeting £100m Revenue by 2028



Achievable through a combination of strong organic growth complemented with small bolt-on acquisitions that meet our disciplined strategic and financial criteria

Revenue CAGR of 12.7%



- 1. Expansion of Lab Services
- 2. Full Service CRO Offering
- 3. Phase II / III Site Services
- 4. Volunteer Repurposing
- 5. Expansion of Venn Consultancy Services

Investment Case







Continued Delivery

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



Scaling & Driving Efficiencies

- New CL-3 50-bedroom facility
- Increased lab capacity
- Increase outpatient capacity
- New challenge models
- New services



Well Positioned for Future Growth

- Guiding £62m revenue 2024
- £80m weighted contracted orderbook
- 90% of 2024 revenue contracted
- Annual dividend
- Medium-term target of £100m revenue

A long-term sustainable growth model





Expanding Market



High Barrier to Entry



Strongest Ever Sales
Pipeline





Questions



2023 - a Record Year of Growth





Delivering Record Financial Performance £56.0m

Revenue¹ 2022: £48.5m

c.22%

EBITDA Margin 2022: 18.7%

£37.0m

Cash Balance at 31 Dec 2023



Exceptional Operational Execution

9

Active Human Challenge Trials in 2023 100%

Increase in Completed Lab Assays

140k+

FluCamp Leads
Generated in 2023



Scaling & Driving Efficiencies

New Facility

Canary Wharf: Opening H1 24 **New Models**

hMPV & Flu B

New Services

Lab, Site, Recruitment



Well Positioned for Future Growth

£62m

FY24 Revenue Guidance¹

£80m

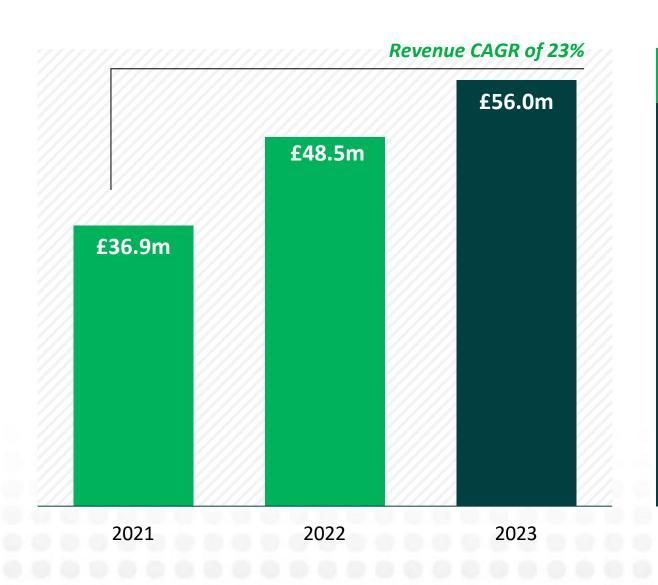
Weighted Contracted Orderbook (31 Dec 2023) £100m

Target Revenue by 2028

¹Revenue excludes other income, such as R&D tax credits.

Another Year of Record Revenue



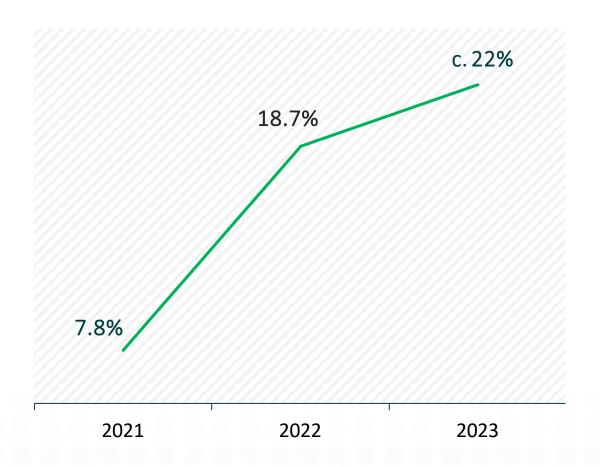


Revenue

- Record revenue of £56.0m for 2023
- Revenue increases 15.5% year-on-year
- 3 X bespoke / full-service contract wins
- Multiple studies run concurrently
- Venn consulting up >30%
- Larger studies and facility acceleration fees offset by impact of MHRA delays

A Sustainably Profitable Business



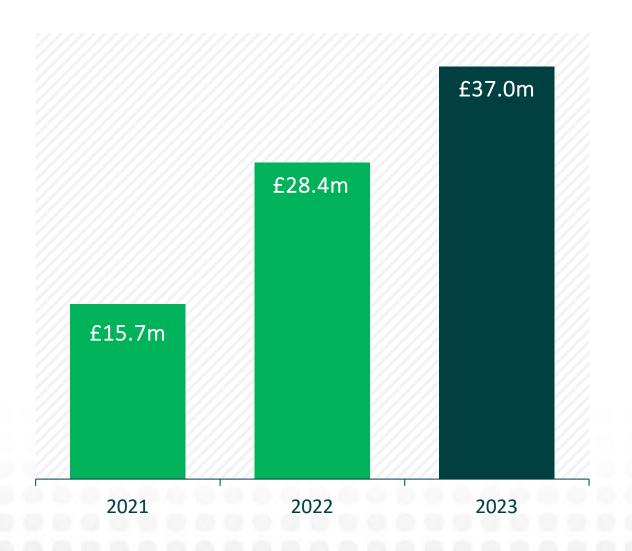


EBITDA Margin

- 2023 EBITDA margin c.22%
- Strong operational delivery team
- Multiple studies run concurrently delivering recruitment efficiencies
- Greater volume leading to increased utilisation of staff and facilities
- Facility acceleration fees offset by impact of MHRA delays

A Sustainably Cash Generative Business



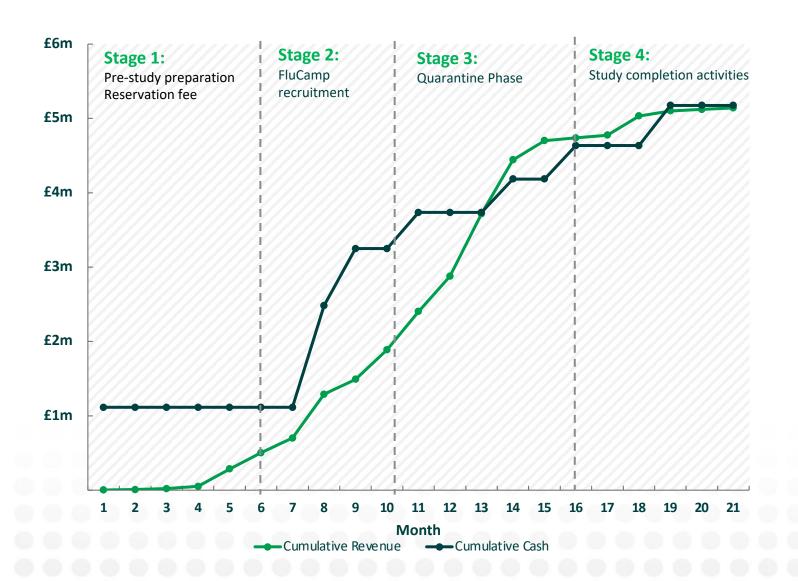


Cash

- Strong cash position with £37.0m as at 31 Dec 2023
- Includes £3.0m dividend paid in 2023
- No debt
- Advanced fees from orderbook growth & contract delivery milestones
- Facility fee receipts in advance of spend
- Increasing underlying operating margins
- Annual dividend to be paid in 2024

Challenge Trial Revenue Recognition Profile





- hVIVO receives an upfront, nonrefundable booking of c.10-20% of total study value to reserve quarantine space
- This mitigates against the risk of cancellation or client delay
- Majority of revenue recognition relates to the recruitment and quarantine phase of the study

History of hVIVO





1946

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







hVIVO acquired by Open Orphan

Dec 2019

June 2019

Venn acquired by Open Orphan



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

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

UK COVÎD CHALLENGE

2020

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

POOLBEG

2021

Spin out of infectious disease product portfolio: Poolbeg Pharma plc

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

World Leading Human Challenge Model Offering



Influenza	RSV	HRV	Malaria	Asthma	SARS-CoV-2	hMPV	Dengue
H3N2 Perth	Memphis	HRV 16	P. falciparum	HRV 16	Pre-Alpha	Strain A*	Dengue 1*
H3N2 Wisconsin		HRV 14*			Delta		Dengue 3*
H1N1(F)					Omicron*		Dengue 4*
Flu B*							

H5N1*

Virus

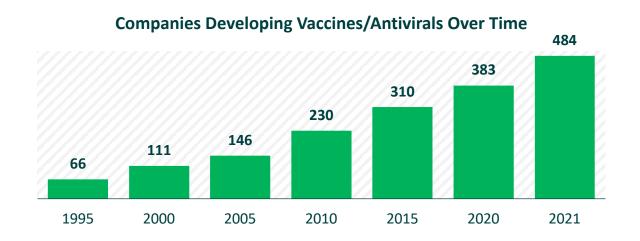
Strain

Potential for the future: Norovirus, Zika, Pneumococcal

^{*} In development

A Growing Market

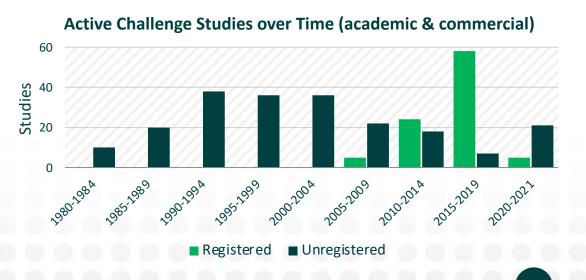




- Increasing number of vaccines and antivirals in development
- Need for new and improved vaccines & treatments
- Increased awareness of the value of HCTs
- Tighter funding environment increases HCT need



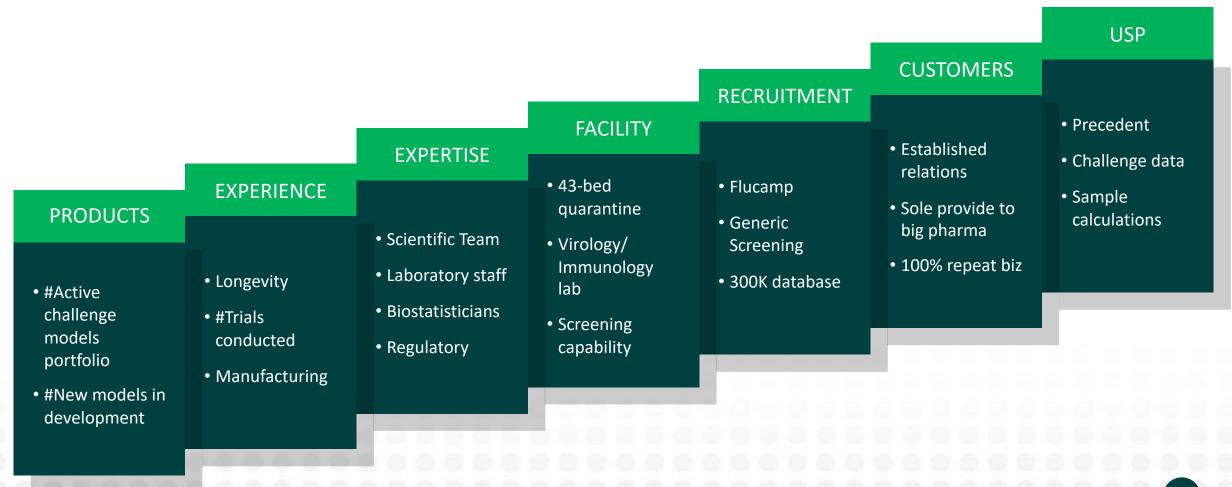
Viruses With an Approved Antiviral ■ Viruses Known to Source: Informa (Mar 2022) 264 Infect Humans The Economist (Mar 2022)



Source: MCSI, Informa (Mar 2022)

Significant Barriers to Entry





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

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







Stay in touch









Ticker: HVO