

# Open Orphan plc

March 2022

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## **Our Vision**

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



# Highlights

- ✓ Subject to audit:
  - Expect full year EBITDA profitability FY21
  - Expect c. £40m revenue for FY21
  - Cash & cash equivalents 31 December 2021: £15.6m (30 June 2021: £14.9m)
  - Targeting c. £50m non-Covid revenue FY22
    - Any COVID-19 revenue will be in addition to this
- ✓ Bed capacity increase to 62 from 43 on a low cost basis
- ✓ Strong pipeline of challenge studies
- ✓ Continuing to work towards monetisation of non-core assets



# **A Fast Growing Business**



£46.6m

Disclosed contract wins 2021

7

Challenge study contract wins 2021

Capacity

increase by

c. 45%

£75m

Current Pipeline (Weighted)
BD Pipeline X Probability of Award



**Expansion** To facilitate growing pipeline & new service offering



- **QMB: 24 + 7 beds**
- **Whitechapel Clinic: 19 beds**
- Plumbers Row: 12 beds
- Manchester

New Manchester Facility
4,000sq ft

Old Manchester Facility
500sq ft

Same cost

+ screening site 9,000sq ft

Old Alie St. office (opened by previous management)
4,000sq ft

 $^{1}/_{3}^{rd}$  cost

## **Monetisation of Non-Core Assets**







- In June 2021, the first distribution in specie was handed back to ORPH shareholders
- Created substantial value for Open Orphan shareholders

## **PrEP**Biopharm

62.6% stake

- Viral prophylactic
- Phase II nasal spray solution
- Sale to a Nasdaq cash SPAC aborted
- Optimistic new sale can be completed

## IMUTEX

49% stake

- FLU-v, Phase III ready universal flu vaccine
- AGS-v, Phase II ready universal mosquito saliva vaccine
- Still pushing management team of ConserV Bio to help sell 100% Imutex

## **Disease in Motion®**



- Worlds largest database of infectious disease progression data
- Potential applications across a wide variety of end users (big tech, wearables, pharma and biotech)

### **Benefits of Spin Off's**

✓ Cost synergies / savings ✓ Creating value where previously none ✓ Dividend for ORPH shareholders ✓ Removing from balance sheet ✓ Opportunity for assets to be developed

## **New CEO**



## Yamin 'Mo' Khan appointed as CEO on 24 February

Cathal Friel will remain hands-on as Executive Chairman

## **Biotech Experience**

• The Liposome Company

## **Extensive CRO experience (25+ years)**

- Innovex acquired by Quintiles
- Pharm-Olam acquired by PE
  - FTE expansion from 20 FTEs to 600+ FTEs
  - 2 countries to 40+ countries

**Commercial Management – experience** 

**Operational Management – experience** 



# **Open Orphan – at a Glance**



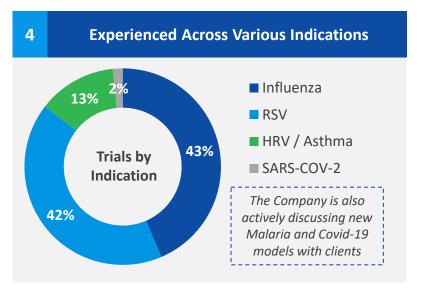
### 1 Undisputed Leader in Challenge Studies

- √ 30+ years providing world leading clinical trials service
- √ 60+ challenge studies completed
- √ 3,300+ patients inoculated
- ✓ Significant long-term projects: £5-10M+ typical study size across 8-10 months average study duration
- World's largest portfolio of human challenge models
- ✓ Large pharma & smaller biotech client base

- Deep roots dating back to 1947 with the establishment of the UK Common Cold Clinic (and continuous support from the UK government since)
- ✓ The Company's challenge studies are subject to the most rigorous external regulatory and ethical review
- ✓ WHO guidelines on Challenge studies
- ✓ In 60+ challenge studies completed by the Company, all have recruited successfully

A Comprehensive Suite of Services  hVIVO Capability Venn Life Sciences Capability								
	СМС	Preclinical	Phase I	Challenge Study	Lab Services	Phase II	Data Mgmt.	Regulatory

3	Human Challenge Trials Completed				
Challenge Model		# of Trials	# Patients Inoculated		
	HRV / Asthma	8	373		
	Influenza	27	1,399		
	RSV	26	1,532		
	SARS-COV-2	1	36		
	Total	62	3,340		



# **Open Orphan- at a Glance**

# Open Orphan

	Overview of the Company's Facilities				
	Name	Description			
1	<b>Dublin Office</b>	Flexible shared offices			
2	Manchester	Recruitment & vaccination site			
3	BioBank	Storage unit for biobank			
4	Plumbers Row*	Office space; volunteer screening; 12-bed unit			
5	Whitechapel Clinic	19-bed unit; 10 screening, admin & storage rooms			
6	Queen Mary's BioEnterprise Centre (QMB)	24 + 7 bed unit; virology laboratory			
7	Venn (Breda)	Flexible shared offices			
8	Venn (Paris)	Flexible shared offices			



# **Differentiated Volunteer / Patient recruitment**



# **FluCamp**

### Clinical Trials Recruitment

- ✓ Decades of experience attracting suitable healthy subjects to meet recruitment requirements (primarily sourcing subjects for hVIVO trials to date)
- ✓ Leading tech-enabled screening currently pivoting the platform to find patients (as well as healthy volunteers)

- ✓ Central London and Manchester screening clinics provide a market leading advantage in recruiting healthy subjects and patients for a broad range of trials amongst diverse population bases
- ✓ Provides ability to recruit efficiently for the significant increase in respiratory & infection disease field trials in a timely, cost-effective manner
- √ 100% success

### **Opportunity #1**

Ability to sell our 160k annual leads to other Phase 1 units

### **Opportunity #2**

Opportunity to support the recruiting for Phase 2/3 trials for a strategic partner

30 +**Year History** 

250,000 +

Active Subjects in Existing Database

160,000 +

New Leads per year through FluCamp.com

1,000+

**Weekly Screening** Capacity

~85%

of subjects screened for human challenge trials can be utilised for other trials

# Why Challenge Studies?



- Potential for fast track / break through designation
- Rapid approval or rejection of pre-clinical data
- Phase II entry up to **5x valuation** uplift
- Significant time / financial savings on efficacy data vs field-based Phase II
- Facilitates dose ranging studies to support efficacy
- Expedites important "Go/No-Go" decisions
- Generate invaluable safety & efficacy data to optimise
   Phase III program
- Reduce no. patients required for Phase III
- Identify key biomarkers
- Test for efficacy against specific variants
- Investigate **key scientific questions** for particularly novel products, mechanisms and approaches
- Potential approval and emergency use authorization

"Pfizer jumps the queue and leaps into RSV vaccine contention with human challenge trial"





FDA Breakthrough Therapy Designation Granted for Respiratory Syncytial Virus Vaccine



# thepharmaletter

Bavarian Nordic gets Breakthrough status for its RSV vaccine candidate



human challenge trials & immunogenicity studies can play an important role in accelerating and improving vaccine testing and development in a pandemic

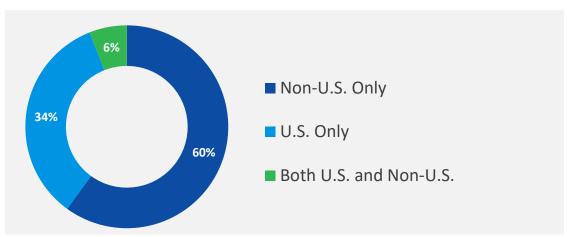
## **Potential Market**



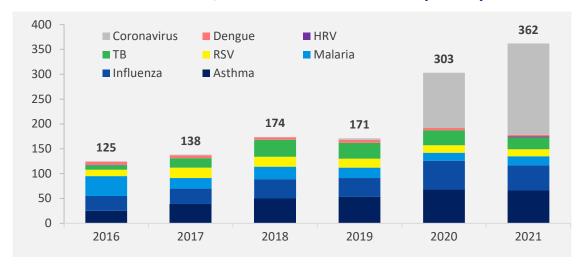
### Strong Growth in Phase I and II Clinical Trial Starts<sup>(1,2)</sup>



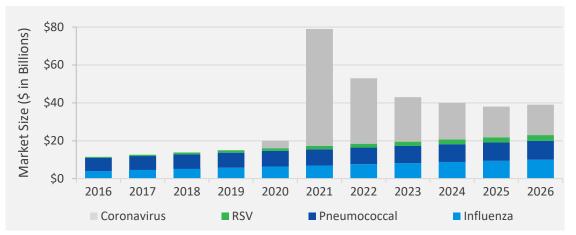
### **Global Clinical Trials Market**(1)



### Increase in Phase I & I/II Infectious Disease & Respiratory Trials(3)



### Strong Growth Forecasted for Anti-infective & Vaccine Indications<sup>(1)</sup>



Note (1): Source: Citeline Trialtrove, Jan. 2022 and Pharma R&D Annual Review; IQVIA Institute, Global Trends in R&D – Overview Through 2021; ClinicalTrials.gov; Evaluate Pharma; Edison Investment Research. Note (2): Phase II includes Phases I/II, II, IIa, IIb. Phase III includes Phase II/III and III. Trials were industry sponsored, interventional trials (device trials were excluded).

# **Expanding our Capacity & Service Offering**





### **Capacity & offering**

- ✓ New facilities in London & Manchester
- ✓ Supplemental recruitment services
- ✓ Non- first in human Phase I trials
- ✓ Field-based Phase II trials
- ✓ Clinical Site
- ✓ Provision of healthy volunteers
- ✓ Increase in capacity
- ✓ Cross-selling opportunities



### Challenge study models

- ✓ STRiVE Project
- ✓ Malaria
- ✓ COVID-19
- ✓ Exploring more



- ✓ New facilities
- ✓ Increased biomarker & molecular testing capabilities

Laboratory facilities & services

- ✓ Virus manufacturing
- ✓ Lab services are progressing towards
   CAP and UKAS accreditations

# **Open Orphan – By the Numbers**





Rapidly Growing Specialist CRO

c. £40M

2021P Revenue c. £50M

2022P Non-Covid Revenue £15.6M

Cash at year end 31 December 2021



Leader in Human Challenge Trials

60 +

Completed Human Challenge Studies

9+

Challenge Study Models £50M +

Challenge Model Portfolio



Operational Excellence

84k +

Volunteers screened 2021

£5-10M

Typical Study Size 8-10 mos.

Average Study Duration



Well Positioned for Growth

62 +

c.45% increased bed capacity

86k +

Lab samples analysed 2021

£75M +

Current Pipeline (Weighted)\*

<sup>\*</sup>Weighted Pipeline = BD Pipeline X Probability of Award



# Questions

@OpenOrphan

in Open Orphan