# AN ERA OF ANTI-CRO (CONTRACTUAL RESEARCH ORGANIZATIONS)

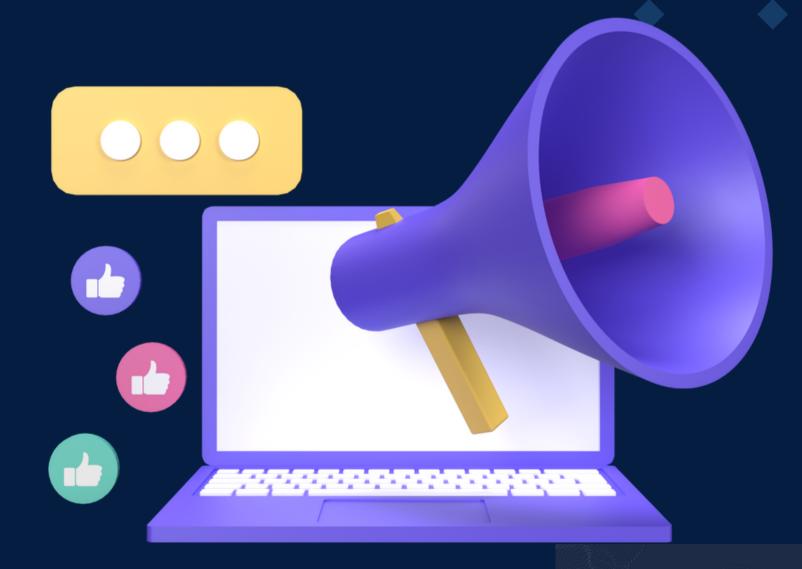
CANDIDATE NUMBER (HZTG2)

MSC DIGITAL HEALTH AND ENTREPRENEURSHIP

GLOBAL BUSINESS SCHOOL FOR HEALTH

UNIVERSITY COLLEGE LONDON

MODULE: GBSH0020- DIGITAL HEALTH START-UPS







# WHAT DOES WORKING WITH CONTRACTUAL RESEARCH ORGANISATIONS MEAN?



#### **Time**

new drug takes roughly **14 years** to reach the market, and failure can happen at any point along the way



#### Recruitment

**86%** of clinical trials do not reach recruitment targets within their specified time periods



#### Time is Money!

Companies bare the loss of \$600,000 to as high as \$8 million per day with each day of delay



#### Cost

The total capitalized cost of Discovery and Development to bring one new drug to market is **\$1.8 billion.** 

>75% of the costs of developing new treatments are spent on the clinical trials









wasting time & money--> failure of trials







# PROMISES TO THE CUSTOMERS



Expert support in proposal building



E- Recruitment of participants



Remote Consent



Real time E-Tracking and Monitoring



predict trial outcome via Machine Learning



differntiating from Competitors





### SECRET LIES BEHIND: CITRUS



burdensome consent

### CitrusClinical

2--3x FASTER

- Remote consent
- Electronic Data Capture
- Dedicated trial-specific database
- Easy database import/export

- Monitoring alerts surfaced, investigated and actioned
- Real time tracking of screening, enrolment, site initiation and study progress in a single dashboard
- Audit logs capture all trial activity

stressing about participants' diversity, bias, engagement, education, withdrawl--> delays

- Full protocol design support
- Feasibility searches conducted on 5m electronic health records
- Machine learning models trained on 620k clinical trials predict likely trial outcome
- Suggestions based on prior successful trials
- Research published in Nature Scientific Reports

CitrusSentry

**100% ON TIME** 

CitrusRecruit

**INSTANT** 

CitusPilot

**TRANSPARENCY** 

CitusStudio

- Access to >20m patients
- Boost patient reach with social media campaigns
- Reach and engage diverse, representative patient populations
- Dedicated study website to educate and onboard patients

stressing about the results and failure in studies, expert guidance, publishing,

• Build evidence for health and marketing

- claims
  - Differentiate your product from competitors
  - De-risk your next clinical trial
  - Publish your findings

stressing about competitors, market fit, claims, and de-risking protocols

HAMBRO PERKS





Description

- · At-home testing for STDs
- · Screening, ePRO and remote testing





Therapeutic Area:

Mental Health

Description:

- Drug trial
- 30 adults with previously treated depression

Results:

>200

Leads shared in <1 month

## myota

Therapeutic Area:

Pre-diabetes

Description

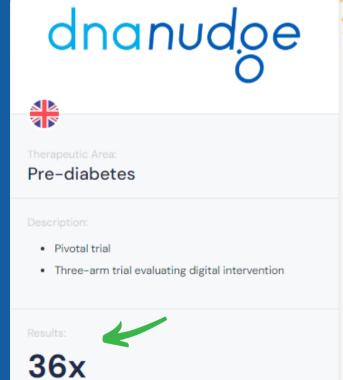
- EFSA Health Claim trial
- 60 participants

Results:

5x 🗲

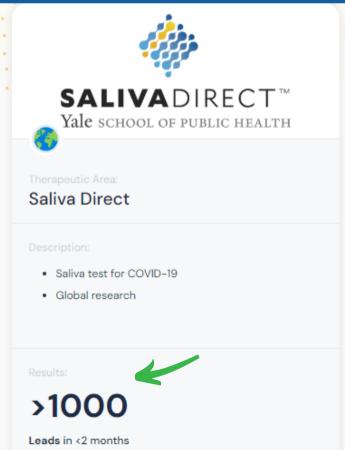
Faster trial setup than competing quotes

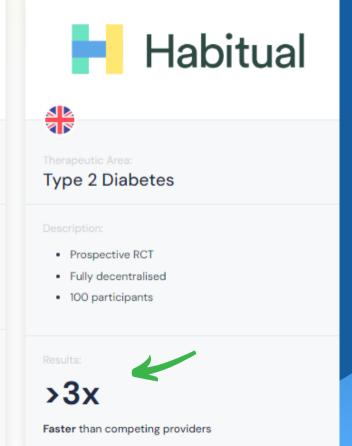
# INSIGHTS FROM PARTNERS' SUCCESS



Recruitment rate uplift











Comparing 4263 healthcare technology systems globally, Lindus has a success probability of 68%, following in the category of Upper Middle, much higher than the average success probability of 53%



Comparing 4263 healthcare technology systems globally, Lindus has Opportunity score of 73 thus attaining 77th percentile, which is much above the average score of 49



### Insights from Pitchbook





# REFERENCES:

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- 3. Lindus Pitch Deck
- 4. https://pharmafile.com/features/clinical-trials-and-their-patients-rising-costs-and-how-stem-loss/
- 5. Huang, G.D., Bull, J., Johnston McKee, K., Mahon, E., Harper, B. and Roberts, J.N. (2018). Clinical trials recruitment planning: A proposed framework from the Clinical Trials Transformation Initiative. Contemporary Clinical Trials, 66, pp.74–79. doi:https://doi.org/10.1016/j.cct.2018.01.003.



