Helmholtz Centre for Infection Research NightingaleHQ

Platform for Sharing Data on Respiratory Diseases

As part of the ongoing work on the causes and spread of respiratory disease, the Helmholtz Centre for Infection Research in Germany sought to build on the success of the open research platform collaborating on the seroprevalence of SARS-CoV-2 (serohub.net). Nightingale HQ rapidly scaled two additional open research platforms supporting greater collaboration on the seroprevalence of Influenza and Respiratory Syncytial Virus (RSV). This approach was data-driven with a focus on showcasing global research developments.

APPROACH

To aim of the project was to build two additional data platforms modelling the key driving factors of Serohub. This approach therefore had to support four primary aims: be a community space for researchers, allow for critical appraisal of diagnostic trials, host study-related documents and be a cloud-based, meta-analysis platform.

OBJECTIVES

- ❑ Build centralised platforms where researchers can share studies, publications and data easily.
- ❑ Incorporate four key platform elements: community, trial summary, document and meta-analysis.
- ❑ Write exhaustive documentation which leaves Helmholtz well equipped for generative learning and training.
- ❑ Set up a connection with the PubMed research library API to dynamically output academic articles on the platform.

ACHIEVEMENTS

- ✓ Align with research, management and technical teams on data infrastructure and content.
- ✓ Built a sharing facility using the Netlify CMS to allow easy study management. Used GitHub to enable greater levels of collaboration in a cost-effective way.
- ✓ Delivered a general public website and a service environment for participating researchers using Hugo.
- ✓ Created a README.md in the respective GitHub repositories with an extensive guide on using the platform. This was an evolving document which grew out of training and Q&A sessions.
- ✓ Create a Hugo shortcode with customisable parameters for PubMed API output.

Influenzahub platform influenzahub.net
RSV platform rsvhub.net

KEY RESULTS

- ✓ Influenza & RSV platform live
- ✓ PubMed Shortcode

At time when research was disrupted by the pandemic but more critical than ever, Nightingale HQ helped us. They quickly built an open knowledge and data sharing platform to support researchers globally.

They took our requirements to build a centralised hub of resources and delivered on key functions like the ability to add research studies, publications and even share case-based data.

The result has enabled our partners to contribute easily and at speed their knowledge and tools, helping to improve evidence-based decision-making on COVID-19.

Stephan Glöckner, Helmoltz, Project Lead, LEOSS.sero-survey

HELMHOLTZ RESEARCH FOR GRAND CHALLENGES

Find out more email ruth@nightingalehq.ai