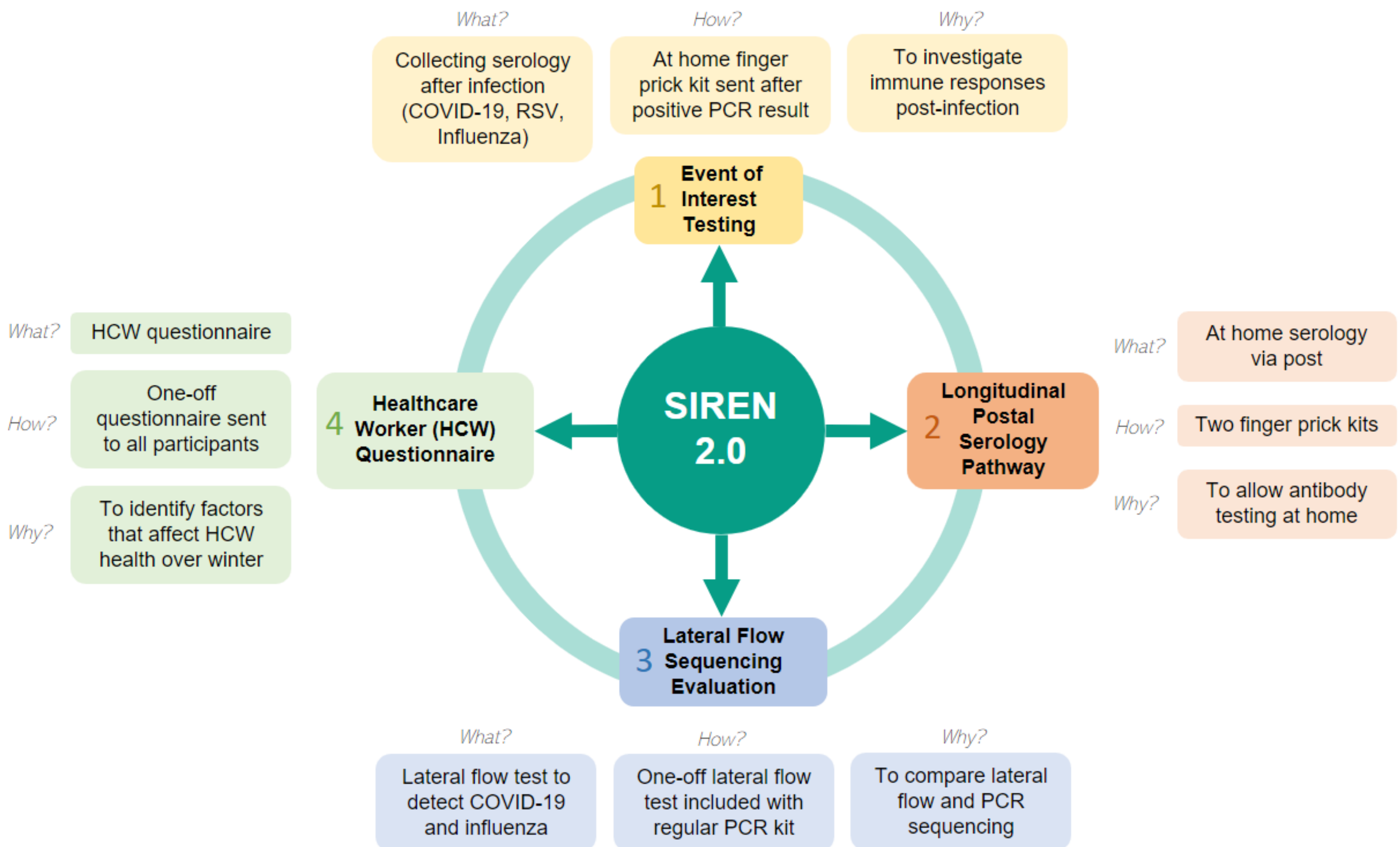




SIREN 2.0

Sub-studies explained

We have launched 4 new sub-studies as part of SIREN 2.0:





UK Health
Security
Agency

SIREN

SARS-CoV2 Immunity & Reinfection Evaluation

SIREN 2.0

Sub-studies explained

Why have we launched these?

The SIREN Study is now into its third year and has captured valuable data on the impact of COVID-19 and other respiratory viruses in a large healthcare worker cohort. The research generated from this study has informed national decision making in the UK.

However, there are still several scientific questions, including the role of antibodies against different respiratory viruses and how to optimise viral testing at scale. Addressing these questions will inform future pandemic preparedness activities.

The sub-studies are an opportunity to participate in some exciting additional science and have got off to a flying start. Thank you for your ongoing commitment to SIREN.



UK Health
Security
Agency

SIREN

SARS-CoV2 Immunity & Reinfection Evaluation

SIREN 2.0

Sub-studies explained

1. Event of Interest Testing

Event of Interest testing investigates immune responses immediately following infection with COVID-19, RSV or influenza.

If you test positive on your routine **fortnightly PCR test**, you will be invited to join Event of Interest testing. You will be sent a finger prick blood testing kit to complete at home and post back to us.

We have had a brilliant response rate of **80%** since launching the pathway in December.

For further information please see:

https://snapsurvey.phe.org.uk/siren/siren2.0/EOI_serology_participant_information_leaflet.pdf

2. Longitudinal Postal Serology Pathway

At home postal serology kits allow us to investigate how COVID-19 and influenza antibody levels change over winter. We will also compare the postal serology method to the usual site serology method.

This pathway uses finger prick blood testing kits and includes two separate time points in January and March 2024.

So far we have received **over 1100 samples** for the January time point - which is a remarkable 77% response rate. Thank you to everyone who has sent a sample to date.

For further information please see:

https://snapsurvey.phe.org.uk/siren/siren2.0/longitudinal_pathway_participant_information_leaflet.pdf



UK Health
Security
Agency

SIREN

SARS-CoV2 Immunity & Reinfection Evaluation

SIREN 2.0

Sub-studies explained

3. Lateral Flow Sequencing Evaluation

The lateral flow sequencing evaluation will compare lateral flow tests to PCR tests for detecting Covid-19 and influenza. We will also investigate whether lateral flow tests can be used a reliable source of viral material for whole genome sequencing.

Viral sequencing was crucial in monitoring the evolution of COVID-19 and can be used to detect other emerging diseases. Current PCR sequencing is expensive and requires a laboratory for analysis. If we can reliably sequence from lateral flow tests, it offers the benefit of rapid results without the need for an additional PCR swab for sequencing.

A one-off lateral flow test will be sent **alongside your regular PCR kit** to perform at home and post back to us in February.

For further information please see:

https://snapsurvey.phe.org.uk/siren/siren2.0/LFT_participant_information_leaflet.pdf



UK Health
Security
Agency

SIREN

SARS-CoV2 Immunity & Reinfection Evaluation

SIREN 2.0

Sub-studies explained

4. Healthcare Worker (HCW) Questionnaire

This additional questionnaire aims to identify the key factors that affect your health over winter. It will inform our understanding of how to better protect HCWs for future winter pressures planning and pandemic preparedness.

The one-off questionnaire will be sent to **all SIREN participants** in February, whether they are actively testing or not. There are four sections:

- Seasonal vaccinations
- COVID/Flu testing and understanding time off work ('sick days')
- Local Infection Prevention and Control measures
- Vaccination history



UK Health
Security
Agency

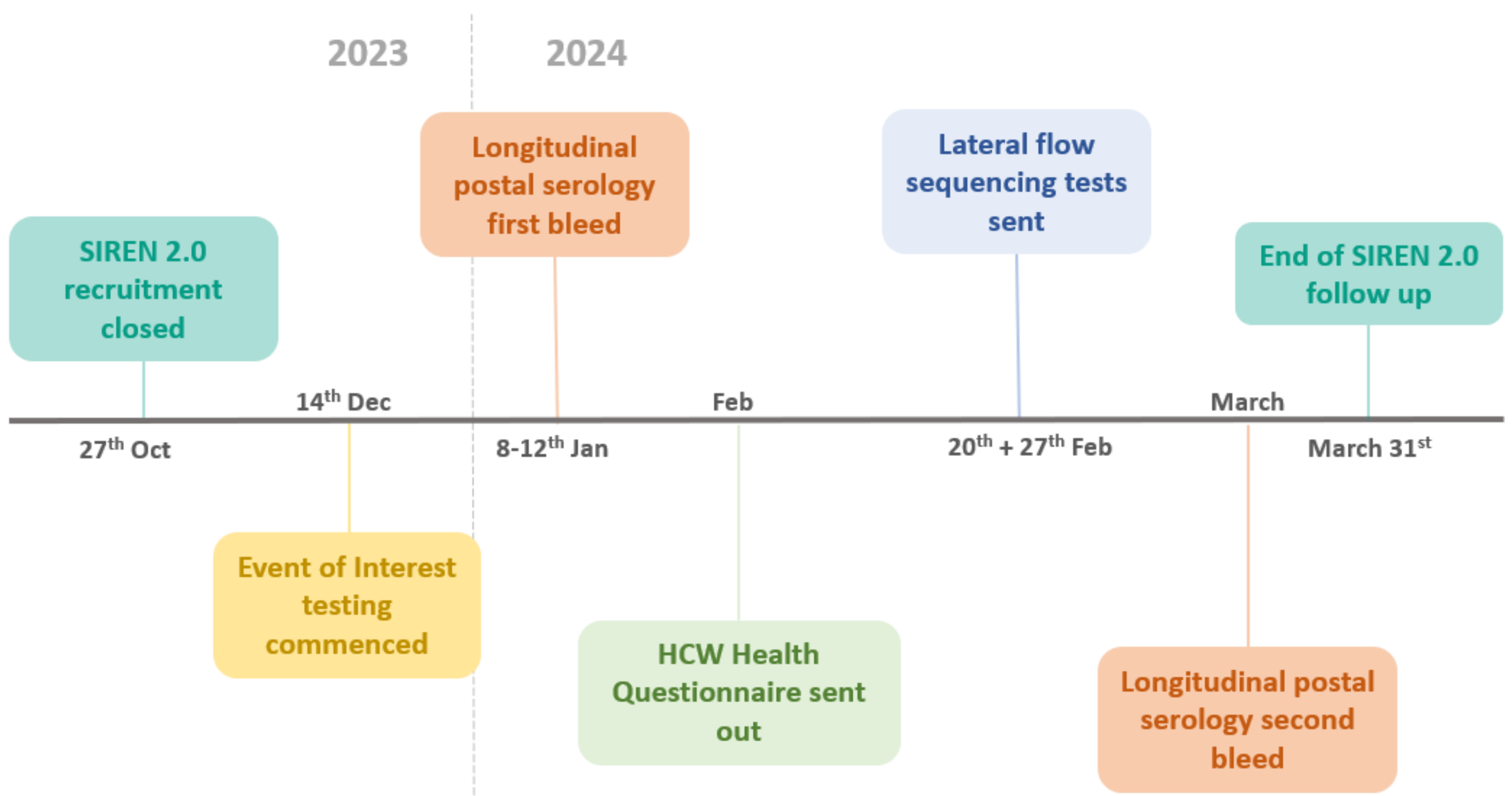
SIREN

SARS-CoV2 Immunity & Reinfection Evaluation

SIREN 2.0

Sub-studies explained

Key Dates for the SIREN 2.0 Sub-Studies



If you have any questions, please email
phe.siren.participants@ukhsa.gov.uk