

Building on the Science Legacy of COVID-19 in Scotland

Annex 2

Questionnaire analysis

Significant capability and progress tackling the pandemic

Strength of academia

Good academia/government/industry collaboration

Impetus for collaboration – common goal cutting across disciplinary and institutional boundaries

Reduction of barriers to research

“Scotland has offered a disproportionately large contribution to UK COVID-related science. Its willingness to pivot towards the pandemic and collaborate was exemplary, not least with public service organisations in the population health realm.”

1. Priority areas

Agreement that these areas are important, no significant new themes or changes

Viral testing, processing and sequencing

- Flexible clinical diagnostic testing capacity for a broader range of targets
- Rapid development and deployment of tests, clinical procedures and pharmaceutical treatments
- Automation of processes
- Local capability for testing
- Future genomic companion diagnostics
- Repurposing of capacity and infrastructure post-pandemic

2. Data-enabled clinical trials

- COVID-19 at expense of other trials
- Academic culture and perverse incentives
- Barriers: lack of consistency of how data is recorded across health boards, access to data for commercial companies
- Opportunity to develop trials infrastructure for the future
- Ensure that trials can deliver real-time clinical data
- Validate accuracy of trials promoting their utility

3. Population health and outcome data

- Focus on COVID-19 at expense of other studies
- Reduce barriers and delays to access to population health data
- Use data to plan future responses
- Link to other nations across the UK
- Invest in interoperability and in revealing gaps in data
- Include modelling

4. Collaborative, interdisciplinary working

- Communication with strategic leadership and government
- Public, academic and private sector agreement surrounding data management
- Collaboration between NHS and industry
- Open sharing of data and experiences across disciplines
- Value of collaborative research projects and working

5. Science communication with the public

- Much improved through pandemic
- Emergence of “specialist communicators”
- Regular updates in understandable language and transparency
- Address public distrust and misinformation
- Include private/voluntary sectors, and schools
- Explore link between communication and actual achievement of behaviour change
- Potential exclusion of vulnerable groups

Additional areas and missed opportunities (1)

- Missed opportunities surrounding non-COVID-19-related research
- COVID-19 recovery: coping with backlog and impact on routine care provision
- COVID-19 therapeutics
- Relationship of COVID-19 with other diseases
- Long-term studies on risks of COVID-19 infection
- Building public trust in health data
- Scaling up innovations that work across Scotland

“Many Scottish sites were able to recruit well to a broad range of COVID-19 studies, but that was only possible because non-COVID research was paused and all Clinical Research Facilities resources were devoted to COVID research.”

Additional areas and missed opportunities (2)

- Secondary data analysis of COVID-19 datasets
- Social and behavioural science surrounding COVID-19
- Health and social inequalities
- Sustainability of established systems and processes post-COVID-19
 - Strengthening preparedness
 - Implications and learning for future programmes
 - Maintenance and/or repurposing of infrastructure

“There is a need to address other important health issues which are prevalent in Scotland, including cardiovascular disease, substance abuse etc. using the same and enhanced infrastructure.”

Success factors

- Consistent leadership and sharing of lessons
- Continued engagement of research community and public
- Increased visibility of scientific community
- Interdisciplinary collaboration across sectors
- Investment in research, interdisciplinary working, skills, networking
- Streamlining regulatory processes

“Ensure adequate resourcing of research and try to slim-down regulatory processes that wastes so much time and energy.”

Conclusions

- Concerted resources and flexible responses - significant benefits at pace
- Priority areas were reinforced as key areas going forward
- Some unintended consequences
- Carry forward positive parts of the legacy:
 - Maintenance and repurposing of infrastructures
 - Knowledge sharing across stakeholders and sectors





© Crown copyright 2022

Produced for Scottish Science Advisory Council by APS Group Scotland, 21 Tennant Street, Edinburgh EH6 5NA
(March 2022)

scottishscience@gov.scot