OPEN LETTER

Implementing a National Approach to Research Ethics Review during a Pandemic – the Irish Experience [version 1; peer review: 2 approved with reservations]

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Abstract
The surge of coronavirus disease 2019 (COVID-19) research studies involving human participants in response to the pandemic has meant that research ethics committees across the world have been challenged to adapt their processes to meet demand while retaining high standards of review. Ethics review during this pandemic remains essential to ensure the safety, dignity and well-being of research participants, however research ethics committees are now faced with new, and often complex, ethics considerations and logistical challenges.

This Open Letter looks specifically at the Irish experience of establishing a national approach to research ethics review amidst a global pandemic. This represents Ireland's first National Research Ethics Committee, which provided the research community with an expedited and 'single national opinion' for ethics review for COVID-related research. The insights gleaned and lessons learned from the Irish experience may inform emergency responses to future pandemics or public health emergencies.

Keywords
Research Ethics, National Research Ethics Committees, Research Integrity, COVID-19

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Author roles: Sheehy A: Conceptualization, Writing – Original Draft Preparation, Writing – Review & Editing; Ralph James J: Conceptualization, Writing – Original Draft Preparation, Writing – Review & Editing; Horgan M: Conceptualization, Writing – Original Draft Preparation, Writing – Review & Editing

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Overview

In December 2019, a novel virus with pandemic potential was identified in Wuhan, China – severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), responsible for coronavirus disease 2019 (COVID-19)\(^1\). The World Health Organization (WHO) declared COVID-19 a global pandemic on 11 March 2020\(^2\).

As with previous global pandemics, research was deemed to be essential in the global response to COVID-19\(^3\).

‘The National Action Plan for Ireland’s Response to COVID-19’ included a clear objective to harness the capacity of the research and evidence community in Ireland to support immediate decision making during the pandemic\(^4\). The implementation of a robust, expedited ethics review process was fundamental in enabling this research.

In accordance with the WHO’s ‘A Coordinated Global Research Roadmap’ and on recommendation from the National Public Health Emergency Team (NPHET), the Irish Minister of Health established a temporary and dedicated national research ethics committee (NREC COVID-19) to deliver an expedited process for review of COVID-19-related health research\(^5\).

A select committee of 19 members was appointed by the Minister to the NREC COVID-19 based on the appropriate diversity of expertise, skills, knowledge and perspectives to ensure the highest standards of ethics review. The NREC COVID-19 was operationalised and supported by the newly founded National Office for Research Ethics Committees.

In line with its terms of reference, the NREC COVID-19 was tasked with the ethics review of COVID-related ‘health research’ as defined within the Health Research Regulations 2018\(^6\). The Chair, in consultation with the National Office, refined the committee’s scope to meet both the evolving needs of the research community and the broader strategic national research agenda, prioritising review of studies that would most benefit from an expedited single national opinion.

General challenges with ethics review during the COVID-19 pandemic

Ethics review is essential for maintaining high standards of research integrity, protecting participants in research and research workers from harm or exploitation, and providing reassurance to the public that these standards are being met\(^7\). This is emphasised for pandemic situations where public trust is essential.

Research conducted during global health emergencies and pandemics raises particularly complex ethics challenges\(^8\). This has been true for COVID-19 where the surge of new COVID-19 studies involving human participants has created a wide range of new ethics considerations and magnified others.

Existing ethics review systems and processes face demand for a prompt and efficient review process necessary to expedite essential research. The adaptation of ethics review processes is necessary to ensure timely review that maintains best practice\(^8\).

Research practices have had to adapt during pandemics. This has meant that ethics committees are faced with novel, and often complex, ethics considerations\(^8\). In the Irish experience, this included capacity to consent, methods for recruiting and consenting participants where lockdown and social distancing guidelines were in place, potential duplication of research efforts, allocation of scarce resources, and data protection considerations for novel communication technologies.

As strongly recommended during previous pandemics, research ethics committees (RECs) are encouraged to work closely with other regulatory and research bodies to ensure aligned and expedited approaches\(^9\).

The need to build trust and engagement in new processes can often be overlooked in global health emergencies. Engagement and trust-building in the response to disasters like hurricane Katrina and the 2004 tsunami have led to long-term benefits. Where these have not been prioritised, often the needs of the communities involved have been neglected\(^10\).

These challenges often need to be addressed with the backdrop of limited human and financial resources.

International response to ethics review of research during the COVID pandemic

In March 2020, the WHO published ‘A Coordinated Global Research Roadmap: 2019 Novel Coronavirus’\(^4\). This Roadmap reiterates that pandemics such as COVID-19 do not overrule the need to uphold ethical standards. It emphasises the need for countries to facilitate accelerated ethics review in emergency situations without compromising human participants’ protection.

The WHO also drafted guidance for RECs for rapid review of research during public health emergencies; this guidance covers the lifecycle of an ethics review application including electronic submission, efficient mobilising of committee expertise, virtual committee deliberations and prompt two-way communications between the committee and researchers\(^8\).

On the back of these publications, many countries have created new, or adapted existing, processes to provide expedited ethics guidance and review of COVID-related research in the changing context of the pandemic.

The UK has a national research ethics review process through the Health Research Authority (HRA). During the COVID-19 pandemic, the HRA amended their processes to allow for a two tier fast-tracked ethics review process for COVID-related research\(^12\). The first reviews ethics applications within 72 hours of submission and prioritises studies on vaccines, diagnostics, treatments, understanding of immune responses and disease prevalence. The second reviews studies within two weeks...
of submission and prioritises studies on the wider impact and general understanding of the COVID-19 pandemic.

The Netherland’s Central Committee on Research Involving Human Subjects have adapted their processes to expedite ethics review of COVID-related research13. This adapted process prioritises vaccines but can be used for other intervention studies. The Committee meet within 7 days of submission of the ethics application and the total duration of the review was a maximum of 25 days.

The European Network of Research Ethics Committees released a position paper on ‘The Responsibility of Research Ethics Committees during the COVID-19 Pandemic’14. This paper clearly outlines the prioritisation of studies focussed on the prevention or treatment of COVID-19, the need for adapted processes for ethics review and the maintained importance of informed consent of participants in COVID-related research.

The European Medicines Agency published ‘Guidance on The Management Of Clinical Trials During The Covid-19 (Coronavirus) Pandemic’, which includes guidance for researchers to ensure trials of medicinal products are safe and ethical15.

Irish response to ethics review during the COVID-19 pandemic

Prior to the pandemic, Ireland’s ethics review system was restricted to several dozen (estimates of up to 80) RECs operating at a local or institutional level. This is largely regarded as disjointed and inefficient, particularly for review of clinical trials of medicinal products16.

In July 2019, the Department of Health published the ‘General Scheme of the National Research Ethics Committees Bill’ offering the research community an insight into what nationalising research ethics review may look like17. Irish legislation based on this Bill will modernise the current system of ethics review with a streamlined, regulated and fit-for-purpose national system.

With COVID-19 case numbers increasing across Ireland in March 2020, the existing ethics review structures were not equipped to deliver the accelerated and unified approach needed for COVID-related research. A national approach to ethics review for COVID-related research was clearly required in Ireland.

Concurrently, the National Office for Research Ethics Committees was established with a priority remit to develop a national ethics review structure to meet the requirements of the cross-European Clinical Trials Regulation (EU) No 536/2014, due to come into effect in 202118.

The Minister for Health established a temporary National Research Ethics Committee for COVID-19 (NREC COVID-19) – Ireland’s first National Research Ethics Committee. This National Committee provided the research community with an expedited and single national ethics opinion for COVID-related health research. The newly established National Office for Research Ethics Committees was tasked with all aspects of operationalising and supporting the NREC COVID-19.

The work of the NREC COVID-19 was informed by national guidance contained in the Ethical Framework for Decision-making in a Pandemic, which makes particular reference to the values of fairness, reciprocity and privacy as guiding values for research during a pandemic19.

Given the government’s recommendations on social distancing and travel restrictions, the committee was formed virtually and was dependent on technology to discharge its duties.

For the initial three-month tenure of the NREC COVID-19, the committee met weekly. Decisions were made by consensus and a quorum was ensured at each meeting.

Due to ongoing demand for a single national opinion for COVID-related studies, the initial three-month tenure was extended by an additional seven weeks and the NREC COVID-19 met three times during this period.

From the outset, the NREC COVID-19 aligned its approach with other national regulatory bodies to ensure a coordinated approach to accelerate health research. The application process was merged with that of the Health Research Consent Declaration Committee (HRCDC), a national statutory committee that grants consent declarations, or waivers, for health research studies where obtaining explicit consent is not feasible. Both the NREC COVID-19 and the HRCDC ran their processes in parallel to ensure robust, accelerated and coordinated review processes1. The NREC COVID-19 maintained close contact with the Health Protection Regulatory Authority (HPRA), the national competent authority for clinical trials and medical devices in Ireland, with a view to ensuring consistency with regulatory review processes.

Over its tenure, the NREC COVID-19 reviewed 93 applications. Of the 93 applications reviewed, four were declined, 83 provisional approvals with requests for clarifications or conditions set, and 81 final approvals. Studies included basic scientific and social research, clinical trials, epidemiology research and applied research. The NREC COVID-19 approved research that will be carried out within 61 institutions across 20 out of the 26 counties in the Republic of Ireland. A total of 23 studies approved by the NREC COVID-19 were part of international collaborations.

Anecdotal feedback from committee members found that the key motivations to participate in the NREC COVID-19 were to contribute to the national response, to enable Irish researchers and to ensure standards of ethics review during COVID-19.

Challenges and barriers – how they were overcome

As the NREC COVID-19 was the first National Research Ethics Committee in Ireland and was rapidly convened during a pandemic, a number of challenges arose during initial set-up and over the tenure of the committee.
Establishing a new ethics review system during a pandemic presented several logistical challenges, largely due to restrictions on face-to-face meetings, travel and consultations. At the development stage, stakeholders from the other regulatory agencies, convened by the Department of Health, held regular conference calls to delineate this new ethics reviews process in an informed and coordinated manner. Furthermore, communication was established with national research funders, including the Health Research Board (HRB) and Science Foundation Ireland (SFI), to inform temporal prediction of application volumes.

At the beginning of their tenure, committee members received IT training in both the selected video conferencing facility and use of an online digital reading room to ensure that remote meetings ran smoothly and securely.

Interest from the research community in the NREC COVID-19 was high as evidenced by application submissions. Accordingly, early into the NREC COVID-19’s tenure, the committee’s scope was refined to prioritise study types for review. The studies prioritised by the NREC COVID-19 included clinical trials, multi-centred studies, national and international studies, and data linkage studies.

As researchers themselves had to adapt to requisite changes to research practices due to COVID-19, the NREC COVID-19 was faced with complex ethics considerations. The NREC COVID-19 endeavoured to provide consistent feedback to the research community and discussed its shared alignment on complex issues with other regulatory bodies.

As both the National Office and the NREC COVID-19 were new additions to the research infrastructure, it was essential to engender the trust and confidence of the research community and the wider public. The implementation of transparent processes such as a dedicated webpage, frequently asked questions (FAQs) and timely publication of meeting minutes and decisions assisted in this regard.

The National Office is hosted as an independent statutory office by the HRB. The National Office leveraged the HRB’s support for promotion and proactive communication to the research community. This fostered understanding of the remit of the National Office and the NREC COVID-19.

Entrenching a single national opinion for ethics review in the research environment was novel in Ireland. It was therefore essential that roles between the local RECs and the NREC COVID-19 were clearly delineated and two-way communication established. Local RECs were provided with weekly summaries of decisions from the NREC COVID-19 and regular general updates provided by the National Office. A local REC manager agreed to act in a liaison capacity between the NREC COVID-19 and local RECs.

**What can be learned from Irish experience?**

The time and resources invested to thoroughly design expedited processes and timelines informed by other regulatory processes ahead of the launch of the Committee was effective and worthwhile exercise. All valid and complete applications that were submitted ahead of the weekly submission deadlines were reviewed within 7 days of the deadline. All 93 applications reviewed received a decision letter generally within one to two days of a NREC COVID-19 meeting.

The coordinated approach and open communication channels across several regulatory bodies for health research from the outset means that strong partnerships have been made for future endeavours. The mutual objective of accelerating Irish health research despite the unprecedented environment ensured momentum was maintained throughout. The shared learnings and alignments on complex issues can now feed into improved research practices and research integrity nationally.

The firm commitment to transparency during the term of the NREC COVID-19 has been widely recognised as a positive move to encourage trust, openness and integrity in the research process.

A key learning was the need for a targeted scope from the outset of the Committee’s work. Refining the scope during the NREC COVID-19 tenure led to some confusion in the research community and the local RECs. However, the agility of the Committee to adapt to the needs of the research environment is testament to the process. A clearly defined scope of research for prioritised review from the outset of a National REC in response to a pandemic will streamline processes and reduce uncertainty.

Due to time restraints and the necessity to reflect multiple review processes in one form, the application form was perceived by some in the research community to be dense. An online application system would have benefited this streamlined process. If time allowed, a more user-friendly approach would be to tailor ethics application forms to specific COVID-related study types.

Notwithstanding the benefits of technology, the successful operation of NREC COVID-19 relied both on the commitment and efficiency of the Chair and committee members and the dedicated staff at the National Office.

**Conclusion**

The NREC COVID-19 played a significant role in Ireland’s research response to COVID-19, accelerating research locally and enabling Ireland’s participation in forefront research internationally, thereby supporting Irish contribution to the global research effort.

Now more than ever, it is imperative that countries learn from each other’s responses to the global pandemic. Much can be learned
from the Irish experience of setting up a national system for
research ethics review during a global pandemic.

Implementation of the NREC COVID-19 demonstrates what
can be achieved with cross-agency coordination, dedicated
resources and individuals' commitment under a unified vision;
moreover it is proof of principle for a national strategic
approach to research ethics review and gives credence to pend-
ing Irish legislation on foot of the National Research Ethics
Committees Bill.

Data availability
Underlying data
No data are associated with this article

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The urgent need for effective vaccines and treatments for COVID-19 has stimulated many organizations involved in research, development and regulatory approval to improve the efficiency of their processes. Ethics review is an essential part of clinical research, but it is inefficient to perform separate institutional or regional reviews for each participating research centre (as is current practice in most countries). This open letter discusses Ireland’s experience or implementing a National Research Ethics Committee for COVID-19 related research in humans, the NREC-COVID-19. It comes to the conclusion (P5-6/8) that ‘Much can be learned from the Irish experience of setting up a national system for research ethics review during a global pandemic.’ This reviewer agrees, and in this sense the letter is a welcome contribution to the improvement and harmonization of research ethics review processes in other (European) countries. The letter presents some background information, but largely focuses on organizational and procedural aspects of the implementation and operation of the NREC COVID-19. However, because of the relevance of Ireland’s experience for other countries, more insights and details would be needed than are offered in this letter. It may not be possible to address all the questions below in this open letter. But then perhaps they can help raise awareness for some remaining issues, that are important for the harmonization and integration of ethics reviews in drug and regulatory research and development.
P.3/8: ‘A select committee of 19 members was appointed… based on the appropriate diversity of expertise, skills, knowledge and perspectives to ensure the highest standards of ethics review’.

- What were the disciplines considered ‘to ensure the highest standards of ethics review’?

- Undoubtedly one or more lay persons were selected, but their experience with a novel disease must have been limited and/or very personal. There was (is?) also no patient association to be involved. During the course of the pandemic, the impact and consequences of the disease became more apparent. (How) did the NREC COVID-19 take this increasingly relevant patient perspective into consideration?

P5/8: ‘it was essential to engender the trust and confidence of the research community and the wider public’

- This part of the main text of the letter (and others) emphasizes the importance of public trust and transparency (eg. please also consider adding this important aspect to the Overview on P.3/8.

- How open and transparent was the selection process for committee members?

P.3/8: ‘the NREC COVID-19 was tasked with the ethics review of COVID-related ‘health research’

- Many investigators will have felt the need to adapt their research to the limitations and possibilities offered by the COVID19-situation. This could have led to proposals which may have been interesting in their own right, but were only superficially related to COVID19. Was any specific framework or definition provided for research applications to NREC COVID-19? What happened to proposals that seemed unsuitable in this regard? Were they evaluated by the NREC COVID-19 and rejected, or sent back to local or regional committees by support staff form the National Office?

- According to Ireland’s National Action Plan (reference 4), a ‘bioethics subgroup’ was to be set up. Was this subgroup the precursor of NREC COVID19? This would suggest a focus on ‘bioethics’, but COVID19 poses a wide range of ethical problems for society (allocation of sparse resources (financial, personnel, health care), impact and balance of costs and benefits of public measures for individuals and society, etc). As indicated by the authors, many of these problems also directly affect clinical research (P.3/8: ‘Research practices have had to adapt…’). Was any specific consideration given to this broader perspective during the composition of the NREC COVID-19 or its procedures (selection of disciplines and committee members, required information from investigators, standard items for agenda and discussions, public communication and transparency, etc)? Did any general learning points come up regarding ethics review of research that is under great public pressure?

P.3/8: ‘As strongly recommended during previous pandemics, research ethics committees (RECs) are encouraged to work closely with other regulatory and research bodies to ensure aligned and expedited approaches.’ P.4/8 ‘the NREC COVID-19 aligned its approach with other national regulatory bodies to ensure a coordinated approach to accelerate health research.’

- The authors draw attention to the importance of coordination with other regulatory and research bodies, but no further information is presented. This has undoubtedly been complex, but without going into detail, it would be informative for readers to have some insight into how this was organized and which problems were encountered. Did this ‘alignment’ also involve the medical universities or research institutes?)
P.4/8: ‘Of the 93 applications reviewed, four were declined, 83 provisional approvals with requests for clarifications or conditions set, and 81 final approvals.’

- Were any questions or grounds for rejection found to be specific for COVID-19? Or was this perhaps the case for any frequently recurring questions? Were the question mainly related to unfavourable risk/benefit balance, scientific shortcomings, undue concessions to the urgency of the situation, or health care limitations?

P.5/8: ‘Furthermore, communication was established with national research funders (…) to inform temporal prediction of application volumes.’

- Was the number of actual applications in line with these predictions? Or did most protocols come from other funders or sponsors? Did sponsorship (public vs private) influence prioritization (if not in principle, then perhaps in practice)?

P.5/8 ‘the NREC COVID-19 was faced with complex ethics considerations.’

- What were these ‘complex ethics considerations’?

P.5/8: ‘It was (…) essential that roles between the local RECs and the NREC COVID-19 were clearly delineated and two-way communication established.’

- How was this ‘two-way communication’ perceived by the regional or institutional review boards? Did these boards contribute to the deliberations of the NREC COVID-19?

- Many local or institutional of local RECs are closely associated with medical schools or research institutes, where RECs often also take the local situation and feasibility into consideration. How did the institutes or the researchers respond to this centralization of review responsibilities? Did the institutional review boards concerned about their loss of autonomy?

- Was (is) there any possibility for appeal?

P.5/8: ‘A key learning was the need for a targeted scope from the outset of the Committee's work. Refining the scope during the NREC COVID-19 tenure led to some confusion in the research community and the local RECs. However, the agility of the Committee to adapt to the needs of the research environment is testament to the process. A clearly defined scope of research for prioritised review from the outset of a National REC in response to a pandemic will streamline processes and reduce uncertainty.’

- It is a bit unclear what is meant by ‘needs of the research environment’ here (investigators? health care system? society? patients?), but it seems that the authors expect a National Research Ethics Committee to be focused, but also flexible. They acknowledge that this may generate confusion among researchers and local or regional ethics committees. Considering the consequences, was any structure in place to involve the research and ethics review community in the decision to centralize reviews on a national level, that matched the required ‘agility’?

P.5/8: ‘An online application system would have benefited this streamlined process.’

- Such systems (‘portals’) are currently being developed for the European Clinical Trial Regulation (EU 2014/536) and the Medical Device Regulation (EU 2017/745). It remains to be
seen whether these portals will be perceived by researchers to be less ‘dense’, but for many applications they will be inescapable and it would be useful to mention them.

P.5/8: ‘the successful operation of NREC COVID-19 relied (also) on (...) the dedicated staff at the National Office’
  o Dedication is an important asset, but to which extent did the requirements for supportive staff also include scientific expertise? Was staff also involved in the content of research applications, and if so – how important was this for the quality, speed and harmonization of the review process and for the accommodation of committee members?

Some general questions:
  o Could something be shared about the investment in the setup of the NREC COVID-19? How much time and effort (shareholder meetings) did this take? How much friction can be expected when the perceived public need for centralization is less pressing?
  o Were important legal changes in (other) national laws or regulations necessary for the setup of the NREC COVID-19 (or perhaps foreseen for a future more general NREC)?
  o The ‘learning experiences’ seems to have been positive, and few mistakes or miscalculations seem to have been made. This is commendable, but would in hindsight perhaps other decisions have been made that help other countries?
  o How did (or will) the experience with the NREC COVID-19 influence ideas about the design of a centralized ethics and regulatory review system in the future (in Ireland, but perhaps also in a European perspective, considering the increasing influence of European regulations like European Clinical Trial Regulation (EU 536/2014), Medical Device Regulation (EU 2017/745) and In Vitro Diagnostics Regulation (EU 2017/746))?
  o (It probably remains to be seen which scope will be chosen for a ‘general NREC’a in the future, outside of an epidemic. The Central Review Decree of the Dutch Central Committee on Research Involving Human Subjects (CCMO) could serve as an example (https://english.ccmo.nl/investigators/legal-framework-for-medical-scientific-research/decrees-and-ministerial-regulations/central-review-of-medical-research-involving-human-subjects-decree-bcb).)

Is the rationale for the Open Letter provided in sufficient detail?
Partly

Does the article adequately reference differing views and opinions?
Yes

Are all factual statements correct, and are statements and arguments made adequately supported by citations?
Yes

Is the Open Letter written in accessible language?
Yes

Where applicable, are recommendations and next steps explained clearly for others to
follow?
Partly

**Competing Interests:** No competing interests were disclosed.

**Reviewer Expertise:** JvG: research governance, clinical pharmacology, neurology; HvD: medical ethics

We confirm that we have read this submission and believe that we have an appropriate level of expertise to confirm that it is of an acceptable scientific standard, however we have significant reservations, as outlined above.

Author Response 03 Nov 2020

Aileen Sheehy, Health Research Board, Ireland

Dear Prof van Gerven,

Thank you for taking time to review our work, which will help us improve this Open Letter. We have revised the publication, informed by your comments and those of the second reviewer. We have also replied to your comments and queries directly below:

- **P.3/8:** ‘A select committee of 19 members was appointed... based on the appropriate diversity of expertise, skills, knowledge and perspectives to ensure the highest standards of ethics review’.

What were the disciplines considered to ensure the highest standards of ethics review? Undoubtedly one or more lay persons were selected, but their experience with a novel disease must have been limited and/or very personal. There was (is?) also no patient association to be involved. During the course of the pandemic, the impact and consequences of the disease became more apparent. (How) did the NREC COVID-19 take this increasingly relevant patient perspective into consideration?

Members of the NREC COVID-19 were formally appointed by the Minister of Health. Members were selected based on their knowledge, expertise, and previous experience on local research ethics committees (RECs), with due regard for the diversity of skills and experience necessary to enable an informed review of the applications likely to come under review In line with international best practice.

As the NREC COVID-19 was set up as a matter of urgency, time did not allow for formal training of members in research ethics. For this reason, many of the committee members were selected based on their experience sitting on RECs or similar types of committees. The NREC was very mindful of existing trusted ethics resources including the cornerstone of ethics review, the Declaration of Helsinki, and the WHO ‘Guidance for research ethics committees for rapid review of research during public health emergencies’.

As you mention, the Committee was established in the earlier stages of the pandemic in Ireland. As far as we are aware, there were no patient associations directly representing patients recovering from, or impacted by, COVID-19 in Ireland at that time. However, the
areas of expertise within the NREC COVID-19 were very relevant to the types of complex ethical considerations that can arise from COVID-related research. Expertise included infectious diseases, medical research, frontline healthcare worker experience, clinical trials, statistics, consent and decision-making capacity, patient association and patient/public advocacy. The NREC COVID-19 benefitted particularly from the contributions of the public and patient representatives.

- **P5/8**: ‘it was essential to engender the trust and confidence of the research community and the wider a

*This part of the main text of the letter (and others) emphasizes the importance of public trust and transparency (eg. please also consider adding this important aspect to the Overview on P.3/8. How open and transparent was the selection process for committee members?*

As the Committee was set up as a matter of urgency, members were selected based on their substantial and diverse expertise, and many necessarily had prior REC experience. The details of the NREC COVID-19 membership are published openly along with the minutes from all the Committee meetings. Senior National Office staff sat in on meetings as observers and can attest to the rigour of the review deliberations.

- **P.3/8**: ‘the NREC COVID-19 was tasked with the ethics review of COVID-related “health research”

*Many investigators will have felt the need to adapt their research to the limitations and possibilities offered by the COVID19-situation. This could have led to proposals which may have been interesting in their own right, but were only superficially related to COVID19. Was any specific framework or definition provided for research applications to NREC COVID-19? What happened to proposals that seemed unsuitable in this regard? Were they evaluated by the NREC COVID-19 and rejected, or sent back to local or regional committees by support staff form the National Office?*

Referring to the section ‘Challenges and barriers – how they were overcome’, we mention briefly that the scope of research reviewed by the NREC COVID-19 was refined early in the process to mitigate this problem. For workflow management purposes and Committee capacity, it was necessary to prioritise the scope of research for their review.

Several applications were submitted to the NREC COVID-19 that did not fit within the prioritised scope. For these studies, the National Office suggested that applicants may be better served using their local REC; in most instances, this was the option chosen by the applicant. In a few instances, the applicant put forward strong justification why their study should be reviewed by the NREC COVID-19 rather than a local REC. For these, the Chair decided whether the applications would be reviewed by the NREC COVID-19.

- **According to Ireland’s National Action Plan (reference 4), a ‘bioethics subgroup’ was to be set up.** Was this subgroup the precursor of NREC COVID19? This would suggests a focus on ‘bioethics’, but COVID19 poses a wide range of ethical problems for society (allocation of sparse resources (financial, personnel, health care), impact and balance of costs and benefits of public measures for individuals and society, etc). As indicated by the authors, many of these problems also directly affect clinical research (P.3/8: ‘Research practices have had to adapt…’).* Was any specific consideration given to this broader perspective during the composition of the NREC COVID-19 or its procedures (selection of disciplines
and committee members, required information from investigators, standard items for agenda and discussions, public communication and transparency, etc)? Did any general learning points come up regarding ethics review of research that is under great public pressure?

- The Bioethics sub-group (now called the Pandemic Ethics Advisory Group) and the NREC COVID-19 are separate, independent entities. The NREC COVID-19 was solely responsible for the ethics review of COVID-related research involving human participants. The Bioethics subgroup looked at broader ethical issues, beyond research, in relation to Ireland's national response to COVID-19. They are a subgroup of the National Public Health Emergency Team, which provides recommendations to the Irish government to inform the national response to the plethora of health and socioeconomic issues that are arising from that pandemic.

- The composition of the NREC COVID-19 reflected the diversity of expertise that was likely required to assess the ethics of COVID-related research involving human participants. Discussion topics such as sparse resources including limited-supply medicines did come up in relation to COVID-19 research and clarifications from applicants were sought when needed. The NREC COVID-19 drew from guidance laid out in the Pandemic Ethics Advisory Group's publication, *Ethical Framework for Decision-making in a Pandemic*, which speaks to issues such as allocation of scarce resources.

- The area of capacity and consent was a frequent discussion point and is an area of particular complexity in Ireland given evolving guidance on this topic. In the interests of consistency and clarity, the NREC COVID-19 and the National Office developed a briefing document describing the Committee's aligned position on capacity and consent. This was then shared with the local RECs, who were welcoming of this information.

  - P.3/8: ‘As strongly recommended during previous pandemics, research ethics committees (RECs) are encouraged to work closely with other regulatory and research bodies to ensure aligned and expedited approaches.’ P.4/8 ‘the NREC COVID-19 aligned its approach with other national regulatory bodies to ensure a coordinated approach to accelerate health research.’

The authors draw attention to the importance of coordination with other regulatory and research bodies, but no further information is presented. This has undoubtedly been complex, but without going into detail, it would be informative for readers to have some insight into how this was organized and which problems were encountered. Did this 'alignment' also involve the medical universities or research institutes?)

We provide more detail of our integrated coordination with two key health research regulatory bodies in Ireland – the Health Products Regulatory Agency and the Health Research Consent Declaration Committee – in the section 'Irish response to ethics review during the COVID-19 pandemic'.

As many of the local RECs are based in medical universities and research institutions, we maintained close contact with these institutions through the local RECs, in addition to direct communication with the VPs of Research on occasion. See section ‘Challenges and barriers – how they were overcome’ for more information on this.

  - P.4/8: ‘Of the 93 applications reviewed, four were declined, 83 provisional approvals with requests for clarifications or conditions set, and 81 final approvals.’
Were any questions or grounds for rejection found to be specific for COVID-19? Or was this perhaps the case for any frequently recurring questions? Were the question mainly related to unfavourable risk/benefit balance, scientific shortcomings, undue concessions to the urgency of the situation, or health care limitations?

One application was declined based on the unfeasibility of the project's methodology due specifically to COVID-19. However, the applicant revised the methodology in light of the Committee's response and the study was later approved.

There were frequently occurring clarifications requested by the NREC COVID-19 as part of the decisions made. These included clarifications around data protection, improvements to the readability of Patient Information Leaflets, and improvements to consent forms.

- P.5/8: 'Furthermore, communication was established with national research funders (…) to inform temporal prediction of application volumes.'

Was the number of actual applications in line with these predictions? Or did most protocols come from other funders or sponsors? Did sponsorship (public vs private) influence prioritization (if not in principle, then perhaps in practice)?

The peak workflow for NREC activity somewhat aligned with the outcomes of the national funding calls. It emerged that many of the studies assessed by the NREC COVID-19 were from applicants based in healthcare settings. In these instances, although the applicants had permission to undertake the research at the proposed healthcare settings, the studies were not affiliated with any funding agency or private sponsors, and no specified funding required.

Prioritisation was never based on sponsorship type.

- P.5/8 'the NREC COVID-19 was faced with complex ethics considerations.'

What were these ‘complex ethics considerations’?

Although there were many new challenges setting up a national REC process, the emphasis of the complexity lay in the ethical considerations, which were primarily COVID-specific or particular to a public health emergency. Many prospective participants for COVID research studies may be incapacitated and a consent declaration required; consequently, one complex consideration was the justification for, and best practice in, capturing informed assent from people close to the participant such as family members, partners or friends.

In terms of enabling informed consent, e-consent and telephone consent was used frequently in the research studies under review due to the social restrictions and guidance in place. The potential implications for these approaches were discussed by the Committee.

Due to the prevailing social restrictions and guidance, many new digital communication and research platforms were used in COVID-related studies. The implications of using these platforms for the protection of personal data of participants was another complex consideration. While mindful of the imperative to share knowledge in a timely manner, the Committee frequently sought evidence and reassurances that participants' personal information would be protected throughout the research study when managed by any
digital tools, including within international collaborations.

- PS/8: *It was (...) essential that roles between the local RECs and the NREC COVID-19 were clearly delineated and two-way communication established.*

**How was this ‘two-way communication’ perceived by the regional or institutional review boards? Did these boards contribute to the deliberations of the NREC COVID-19?**

The National Office proactively communicated (by email) to the local RECs all key developments with the national system and all decisions made, in addition to the Head attending a meeting of the local REC representatives. The National Office was open to reciprocal communication from the local RECs, and this was supported by a local REC manager who agreed at the invitation of the National Office to act in a liaison capacity between the NREC and the local RECs. Informal email and verbal communications from several RECs show that the work of the NREC and the National Office is welcomed. The local RECs did not contribute to NREC COVID-19 decisions, however their feedback on improving specific aspects of the process was considered. Importantly, the NREC COVID-19 respected decisions made at a local level and the local RECs respected decisions made by the NREC COVID-19 at a national level.

- **Many local or institutional of local RECs are closely associated with medical schools or research institutes, where RECs often also take the local situation and feasibility into consideration. How did the institutes or the researchers respond to this centralization of review responsibilities? Did the institutional review boards concerned about their loss of autonomy?**

Although the NREC COVID-19 was the first National Research Ethics Committee in Ireland, the concept of nationalising research ethics in Ireland has been in discussion for some time. Last year the General Scheme of the National Research Ethics Committees Bill was published as an important first step to shape what the national system will look like. It is expected that the associated legislation will be enacted in 2021.

Both institutions and researchers were largely appreciative of the NREC COVID-19 initiative. For researchers, an expedited single national ethics opinion was welcome for their COVID-related research, which needed to be established quickly. For local institutions, the initiative alleviated many of the pressures of the high volume of COVID-19 research projects being undertaken at a time when some local RECs were not functioning.

The addition of the NREC COVID-19 to the research infrastructure did uncover a number of existing ‘blind-spots’ in the research system, including oversight by some researchers to inform their local REC / Research Office of their research study. This and other opportunities for improvement in research governance are being considered by a local REC reform working group, on which there is National Office representation.

- **Was (is) there any possibility for appeal?**

There was no appeals Committee in place for decisions made by the NREC COVID-19, however applicants could resubmit a study addressing the prior concerns of the NREC COVID-19. An appeals process will be a component of the national system implemented through legislation on foot of the NREC Bill.
P.5/8: ‘A key learning was the need for a targeted scope from the outset of the Committee’s work. Refining the scope during the NREC COVID-19 tenure led to some confusion in the research community and the local RECs. However, the agility of the Committee to adapt to the needs of the research environment is testament to the process. A clearly defined scope of research for prioritised review from the outset of a National REC in response to a pandemic will streamline processes and reduce uncertainty.’

It is a bit unclear what is meant by ‘needs of the research environment’ here (investigators? healthcare system? society? patients?), but it seems that the authors expect a National Research Ethics Committee to be focused, but also flexible. They acknowledge that this may generate confusion among researchers and local or regional ethics committees. Considering the consequences, was any structure in place to involve the research and ethics review community in the decision to centralize reviews on a national level, that matched the required ‘agility’?

The research environment refers to all of the above – researchers, research institutions, healthcare systems and settings, patients and society at large.

Although a National Research Ethics Committee should have a focused remit of research for review, they should remain flexible to an extent in how they work – this was key to dealing with COVID-19 research ethics review. One critical factor to consider was the unknown volume of research studies that would be prompted by the pandemic, and therefore the unknown workflow for the Committee. Many of the local RECs continued to work very flexibly during the pandemic (and continue to do so) enhancing the agility of the research system.

As mentioned previously, discussions around nationalising research ethics continue to take place in Ireland and these discussions involve the research and ethics review communities.

P.5/8: ‘An online application system would have benefited this streamlined process.’

Such systems (‘portals’) are currently being developed for the European Clinical Trial Regulation (EU 2014/536) and the Medical Device Regulation (EU 2017/745). It remains to be seen whether these portals will be perceived by researchers to be less ‘dense’, but for many applications they will be inescapable and it would be useful to mention them.

Agree and we will add them to the paper.

P.5/8: ‘the successful operation of NREC COVID-19 relied (also) on (...) the dedicated staff at the National Office’

Dedication is an important asset, but to which extent did the requirements for supportive staff also include scientific expertise? Was staff also involved in the content of research applications, and if so – how important was this for the quality, speed and harmonization of the review process and for the accommodation of committee members?

The National Office is staffed by two senior scientific staff. As part of the application validation process, staff did provide advice and guidance on occasion to researchers on their applications in advance of consideration by the NREC COVID-19, where there were clear administrative improvements to be made or where the application would benefit from
additional supporting information. This took considerable time, in addition to operationalising Committee meetings, but overall the approachability of the National Office in this regard helped the NREC COVID-19 review run more efficiently and assisted researchers to strengthen their applications.

- **Could something be shared about the investment in the setup of the NREC COVID-19? How much time and effort (shareholder meetings) did this take? How much friction can be expected when the perceived public need for centralization is less pressing?**

The set-up of the NREC COVID-19 required the dedicated focus and time of several professional staff from the Department of Health, the Secretariat of the HRCDC and the HPRA. The implementation and ongoing operationalisation of the Committee was managed by two full-time senior staff and an administrative assistant at the National Office; this dedicated resourcing was a key enabler for the NREC COVID-19 and a factor that the local REC system doesn't always benefit from.

At an estimate the NREC COVID-19 Members dedicated at least four hours of their time each week – two hours for the Committee meeting and two or more hours of review ahead of the meeting, largely over weekends and outside of business hours. Due to the nature of their roles, the Chair and Vice-Chairs committed additional time. We will add some information on this to the paper.

As many strong relationships have now been formed during this intense period, it creates a strong foundation for the establishment of additional National RECs. We expect that this will reduce any actual or perceived friction.

- **Were important legal changes in (other) national laws or regulations necessary for the setup of the NREC COVID-19 (or perhaps foreseen for a future more general NREC)?**

The NREC COVID-19, including its bespoke Terms of Reference, was established by the Minister for Health as a temporary measure using existing laws in the system. However, a new bill is due to be enacted in 2021 – the National Research Ethics Committee Bill. This Bill, along with parallel secondary legislation on the clinical trials of medicinal products, will significantly reform the research ethics committee framework across the spectrum of health research in Ireland through the establishment of further National Research Ethics Committees with the National Office to drive and support the reforms. It is envisaged that research ethics review in Ireland will constitute a mixed-model system including both NRECs and local RECs, each with defined remits.

- **The 'learning experiences' seems to have been positive, and few mistakes or miscalculations seem to have been made. This is commendable, but would in hindsight perhaps other decisions have been made that help other countries?**

We’ve attempted to capture the ways in which the process could have been improved in hindsight in the publication within the suggested word limits. If you have any suggestions of areas that we may have missed, we would be happy to consider these.

- **How did (or will) the experience with the NREC COVID-19 influence ideas about the design of a centralized ethics and regulatory review system in the future (in Ireland, but perhaps also in a European perspective, considering the increasing influence of European regulations like European Clinical Trial Regulation (EU 536/2014), Medical Device Regulation (EU 2017/745) and In Vitro Diagnostics Regulation (EU 2017/746))?**
The experience of the NREC COVID-19 will act as a proof of principle for the delivery and management of future National RECs. The next National RECs are likely to be in response to the Clinical Trial Regulation and the Medical Device Regulation.

(It probably remains to be seen which scope will be chosen for a ‘general NREC’a in the future, outside of an epidemic. The Central Review Decree of the Dutch Central Committee on Research Involving Human Subjects (CCMO) could serve as an example ([https://english.ccmo.nl/investigators/legal-framework-for-medical-scientific-research/decrees-and-ministerial-regulations/central-review-of-medical-research-involving-human-subjects-decree-bcb]).)

This is very helpful.

**Competing Interests:** No competing interests were disclosed.
3. p5 - how was feedback provided to the research community? Did this change processes?

4. How were REC members selected and recruited?

5. p5 - how was the HRB support leveraged, and was the HRB funding any COVID-19 studies that could be considered a conflict of interest?

Clarification

1. 93 projects were reviewed - were more submitted but declined for review because of the revised prioritisation process?

2. It appears that some studies were not returned for review after provisional opinion, is there detail on why this was so?

3. Suggest clarify in the manuscript that 12 RECs in Ireland approved to give a single national approval to CTIMPs and that local RECs did continue to operate in COVID-19 times. Suggest cite the WHO/RFH/20.1 ethical standards for research during public health emergencies guidance updated for COVID.

Is the rationale for the Open Letter provided in sufficient detail?
Yes

Does the article adequately reference differing views and opinions?
Partly

Are all factual statements correct, and are statements and arguments made adequately supported by citations?
Yes

Is the Open Letter written in accessible language?
Yes

Where applicable, are recommendations and next steps explained clearly for others to follow?
Partly

Competing Interests: Have submitted a description of a local REC COVID response as part of a wider publication on COVID research ethics, under review. This intent was published in a protocol in this journal and discussed in the HRB TMRN Trials in a Pandemic Symposium, and thus is already open information.

Reviewer Expertise: Endocrinology. Research Governance.

I confirm that I have read this submission and believe that I have an appropriate level of expertise to confirm that it is of an acceptable scientific standard, however I have significant reservations, as outlined above.
Dear Prof. Crowley,

Thank you for taking time to review our work, which will help us improve this Open Letter. We have revised the publication, informed by your comments and those of the second reviewer. We have also replied to your comments and queries directly below:

1. How were the information technology projects chosen to support the committee? The authors may not wish to name them, but the criteria for selection and experience of same would be worth reporting.

The tools for video conferencing and an online reading room were selected based on the security and functionality afforded, in addition to ease of use. The selection was guided by the expertise of our local IT support team. Another national committee of similar size and comparable remit had a positive experience with the particular online reading room tool selected.

This tool met the needs of the NREC COVID-19 – specifically, the safe and secure upload of applicant documentation, functionality to record comments, and easy to navigate. Members were given a step-by-step orientation on both the video conferencing and online reading room tools and had access to IT support on request. To our knowledge, no member had prior experience of the online reading room tool and few members had prior experience of the video conferencing tool.

2. Consider briefly describing the complex ethical considerations mentioned. Were they COVID-specific? Or due to the challenges of a new national REC process?

Although there were many new challenges setting up a national REC process, the emphasis of the complexity lay in the ethical considerations, which were primarily COVID-specific or particular to a public health emergency. Many of prospective participants for COVID research studies may be incapacitated and a consent declaration required; therefore, one complex consideration was the justification for, and best practice in, capturing informed assent from people close to the participant such as family members, partners or friends.

In terms of enabling informed consent, e-consent and telephone consent was used frequently in the research studies under review due to the social restrictions in place. The potential implications for these approaches were discussed by the Committee.

Due to the prevailing social restrictions, new digital communication and research platforms were used in COVID-related studies. The implications of using these platforms for the protection of personal data of participants was another complex consideration. While mindful of the imperative to share knowledge in a timely manner, the Committee frequently sought evidence and reassurances that participants’ personal information would be protected throughout the research study when managed by any digital tools, including within international collaborations.
We will ensure they are adequately captured in the revised version of the publication.

3. How was feedback provided to the research community? Did this change processes?

Feedback from the NREC COVID-19 came in the form of decision letters provided to applicants by the National Office on behalf of the Committee; most decision letters relayed decisions of provisional approval. The queries, conditions and recommendations underpinning the provisional approval letters were actionable and were provided to strengthen the research studies from an ethical perspective. Where common issues arose, the associated feedback was standardised where possible across applications with a view to informing best practice.

Senior staff at the National Office did provide advice and guidance on occasion to researchers on their applications in advance of consideration by the NREC COVID-19, where there were clear administrative improvements to be made or where the application would benefit from additional supporting information.

This process did not change for the duration of the NREC COVID-19.

4. How were REC members selected and recruited?

Members of the NREC COVID-19 were formally appointed by the Minister of Health. Members were selected based on their knowledge, expertise, and previous experience on local research ethics committees, with due regard for the diversity of skills and experience necessary to enable an informed review of the applications likely to come under review. In line with international best practice, the NREC COVID-19 benefitted particularly from the contributions of those members representative of PPI.

As the NREC COVID-19 was set up as a matter of urgency, time did not allow for formal training of members in research ethics. For this reason, many of the members were selected based on their experience sitting on research ethics committees (RECs) or similar types of committees.

We will add some additional information on this in the paper.

5. How was the HRB support leveraged, and was the HRB funding any COVID-19 studies that could be considered a conflict of interest?

The National Office for Research Ethics Committees is an independent office with a statutory function, housed within the HRB. The role of the HRB is restricted to operational and infrastructural support for the National Office team. During health emergency, this encompassed website space, and IT support; this was critical to display information on the Committee, the application process, and minutes and decisions from meetings to ensure transparency in the process. The National Office also availed of the HRB communications expertise to leverage established communication channels to publicise the launch of the NREC COVID-19, and any updates or developments to the wider Irish research community.

The HRB funded COVID-19 research studies through the Rapid Response Funding call, a number of which were reviewed by the NREC COVID-19. These applications proceeded
through the standard NREC review process and applicants liaised with the Committee solely through the National Office team. Committee members were asked to declare any conflicts at the start of every meeting and decisions were uniformly made by consensus. Senior National Office staff acted as observers during NREC meetings and did not contribute to decisions on any application. Discussions on all applications reviewed by the NREC COVID-19 are detailed in the meeting minutes, which are publicly available.

HRB unequivocally had no role in the decision-making process of the NREC COVID-19, nor will it have for future NRECs; this is provided for in the General Scheme of the National Research Ethics Committees Bill (July 2019).

We will add more clarity around this in the paper to ensure there is no perception of a potential conflict of interest.

**Clarifications**

1. **93 projects were reviewed - were more submitted but declined for review because of the revised prioritisation process?**

For workflow management purposes and Committee capacity, it was necessary to prioritise the scope of research for review. Several applications were submitted to the NREC COVID-19 that did not fit within the prioritised scope. For these studies, the National Office suggested that applicants may be better served using their local REC; in most instances, this was the option chosen by the applicant. In a few instances, the applicant put forward strong justification as to why their study should be reviewed by the NREC COVID-19 rather than a local REC. For these, the Chair decided whether the applications would be reviewed by the NREC COVID-19.

2. **It appears that some studies were not returned for review after provisional opinion, is there detail on why this was so?**

Out of the 93 applications reviewed, 83 applications received provisional approval. Out of the remaining 10 applications, 4 were declined, 5 received full approval outright, 1 application was reviewed but was missing a core document so a decision could not be made.

When this paper was first submitted, 81 final approvals were issued. This figure has increased to 85 approvals. Two applicants notified the National Office at provisional approval stage that their studies will not be proceeding, and one applicant has had their provisional approval revoked due to lack of response.

We will add the revised numbers to the next iteration of the paper.

3. **Suggest clarify in the manuscript that 12 RECs in Ireland approved to give a single national approval to CTIMPs and that local RECs did continue to operate in COVID-19 times.**

This is an important point and we are happy to make this clearer in the next version of the publication.
Suggest cite the WHO/RFH/20.1 ethical standards for research during public health emergencies guidance updated for COVID.

We are happy to add this additional citation as this is an important document that did help to inform our processes.

**Competing Interests:** No competing interests were disclosed.