



18 February 2021

The Rt. Hon Boris Johnson MP
 Prime Minister
 10 Downing Street
 London
 SW1A 2AA

CC: Rt Hon Matt Hancock MP, Secretary of State for Health and Social Care
 Mr Robin Swann MLA, Minister for Health
 Jeane Freeman OBE, Cabinet Secretary for Health and Sport
 Vaughan Gething MS, Minister for Health and Social Services

Dear Prime Minister,

Re: Protecting health care workers - better ventilation, PPE, awareness and research

Over the past 12 months, you have seen the professionalism and dedication of health and care workers across the UK and, as you know, this care has been given at huge personal risk. Across the UK, at least 930 health and care workers to date have lost their lives and many more are suffering from the long-term adverse effects of COVID-19.

As organisations and individuals representing health and care workers and patients across the UK, we are calling for your urgent intervention to prevent the further loss of lives.

Health and care workers are at three to four times greater risk of developing and dying from COVID-19 than the general public.¹ However, measures to reduce airborne spread in high-risk health and care settings, which are mission-critical to the pandemic response, have thus far been inadequate. Current policies continue to emphasise the importance of fomite, droplet and direct spread but do not properly address airborne transmission.²

There is now no scientific doubt that COVID-19 spreads via the airborne route.³ There is also direct empirical evidence that the virus is readily transmitted in health care settings beyond formally-classified aerosol generating procedures (AGPs).⁴

The importance of ventilation to prevent the spread of COVID-19 in enclosed settings is well documented by the European Centre for Disease Prevention and Control (ECDC),⁵ the Scientific Advisory Group on Emergencies (SAGE),⁶ and in guidance from the UK and devolved governments to reduce the risk of airborne spread of infection in the public's own homes.⁷

The current UK Infection Prevention and Control (IPC) guidance which leads and determines the selection and use of PPE across the UK does not accurately depict the airborne risks when sharing health and care settings including working in patients' homes and public buildings. Neither does it adequately align and convey the importance of ventilation and, more widely, engineering controls in relation to Health and Safety Executive guidance.

We believe that given the rapid emergence and evolution of new variants of concern, a change in approach must be implemented at speed to protect patients and staff consistently across the UK.

To reflect our concerns and the emerging scientific evidence, we call on you as Prime Minister to ensure that the UK Government works constructively with the devolved administrations to:

1. Ensure all health and care providers assess and improve the **quality of ventilation** in all settings to reduce the risks of airborne spread;
2. **Amend the UK IPC guidance to reflect and increase the level of respiratory protection** as a precautionary principle for all health and care workers providing care to people with known or suspected COVID-19, or as a result of local risk assessment;
3. **Update all guidance** to reflect the evidence on airborne transmission, ensuring representation from **a truly multidisciplinary range of experts** including engineering, aerosol science, occupational health, infection prevention and control and behavioural science in addition to stakeholders such as Royal Colleges, professional and scientific bodies and trade unions;
4. Collect and publish consistent data on **health care workers who have contracted COVID-19 from likely occupational exposure** so we can identify health and care settings where staff are most affected and target responses to address this;
5. Publish, in accessible form, all **scientific evidence on airborne transmission** in health and care settings and **undertake research** to fill any knowledge gaps.

We have addressed this letter to you because your agencies and departments have not yet sufficiently responded to our concerns. While we are aware that a review of the IPC guidance has been carried out, we cannot agree with its apparent conclusions that the guidance should remain the same.

We recognise that our calls represent a different approach to producing and coordinating IPC guidance, using multidisciplinary collaboration as above, but this is an unprecedented situation. The evidence is clear and lives continue to be put at risk.

This is a UK-wide issue. Where coordinated, national action could make a decisive difference. We therefore look to the UK Government, and you as Prime Minister, to take the lead to address the inconsistencies and gaps in guidance and in the protection of patients and health and care workers.

Yours sincerely,



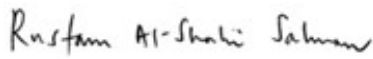
Dame Donna Kinnair
Chief Executive and
General Secretary
Royal College of Nursing



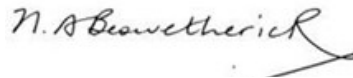
Professor Trish Greenhalgh
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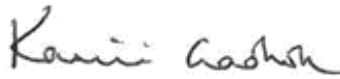
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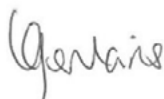


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- 1 Lednicky, et al. Viable SARS-CoV-2 in the air of a hospital room with COVID-19 patients. *International Journal of Infectious Diseases*: 100, 476-482 (2020).
- 2 Wilson N.M. et al. Airborne transmission of severe acute respiratory syndrome coronavirus-2 to healthcare workers: a narrative review. *Anaesthesia* (75) 8: 1086-1095 (2020) <https://doi.org/10.1111/anae.15093>
- 3 Zuo, Y.Y., Uspal, W.E. and Wei, T. Airborne Transmission of COVID-19: Aerosol Dispersion, Lung Deposition, and Virus-Receptor Interactions. *ACS Nano* 14 (12): 16502-16524 (2020).
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- 4 Lednicky, et al. Viable SARS-CoV-2 in the air of a hospital room with COVID-19 patients. *International Journal of Infectious Diseases*: 100, 476-482 (2020).
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- 5 ECDC Heating, ventilation and air-conditioning systems in the context of COVID-19: first update. Technical report (2020) <https://www.ecdc.europa.eu/en/publications-data/heating-ventilation-air-conditioning-systems-covid-19>
- 6 SAGE Environmental and Modelling Group: Role of ventilation in controlling SARS-CoV-2 transmission (2020) <https://www.gov.uk/government/publications/emg-role-of-ventilation-in-controlling-sars-cov-2-transmission-30-september-2020>
- 7 Government campaign on ventilation in homes <https://www.gov.uk/government/news/new-film-shows-importance-of-ventilation-to-reduce-spread-of-covid-19>