“Arguments for higher levels of PPE are gaining ground. Evidence of aerosol transmission of the SARS-CoV-2 virus has been emerging since Spring 2020.”

RISK OF COVID-19 AMONG HEALTHCARE WORKERS

There is clear evidence that healthcare workers (HCWs) are at increased risk of contracting COVID-19. Compared to non-essential workers, HCWs have a seven-fold increase in risk of severe COVID-19 (testing positive in hospital or death). Frontline, or patient-facing, HCWs have a three-fold increase in risk of testing positive for COVID-19 compared to the general population. Compared to non-patient facing HCWs they have a three-fold risk, and their household members have a two-fold risk of hospital admission with COVID-19. COVID-19 risk is also specialty dependent: ‘front-door’ specialty HCWs (A&E, medical specialties including general, acute, and geriatric medicine, and infectious diseases) are at increased risk compared to intensive care HCWs, who in some studies had a lower risk than other HCWs.

AVAILABILITY OF DATA

The only publicly available data on COVID-19-related deaths of doctors in the UK comes from tributes in the medical press, which are likely to underestimate the number of deaths. These record that 16 GPs (out of 43 doctors) have died from COVID-19. The number of deaths of other primary care workforce members is unknown. There have been calls for better surveillance data on hospital-acquired COVID-19 deaths of healthcare workers; similar data are also required for the primary care workforce. We have argued for deaths of all workers who may have contracted COVID-19 during the course of their work to be referred to the Health and Safety Executive (HSE) under the Reporting of Injuries, Diseases and Dangerous Occurrences Regulations, and the coroner, so they can be adequately investigated and lessons learnt. The extent to which this is happening is unknown. Data on other outcomes, such as prevalence of long COVID among the primary care workforce is also required.

“Compared to non-essential workers, healthcare workers have a seven-fold increase in risk of severe COVID-19 (testing positive in hospital or death).”

PROTECTING HEALTHCARE WORKERS: PPE

Lower risk of COVID-19 among intensive care workers may be due to higher levels of personal protective equipment (PPE), and better training and facilities for changing PPE than other staff. Opportunities were missed to protect the primary care workforce, with PPE shortages persisting for months. BMA surveys in April 2020 found over one-third of GPs did not have eye protection, in May, 69% of GPs had sourced their own PPE or relied on donations, and in June ongoing problems with supply of masks to GPs were reported. Furthermore, Public Health England (PHE) followed World Health Organization (WHO) guidance (designed for low- and middle-income countries) in recommending lower levels of PPE than HSE guidance, which existed prior to the pandemic. Arguments for higher levels of PPE are gaining ground. Evidence of aerosol transmission of the SARS-CoV-2 virus has been emerging since Spring 2020. The BMA wrote to NHS Trusts on 7 January 2021 reminding them of their ‘responsibility under HSE legislation to protect workers as fully as possible and to take all necessary steps to prevent future sickness and death’, and advocating wider use of FFP3 masks, goggles, and face shields due to the new and more transmissible strains of SARS-CoV-2. The BMA also wrote to PHE on 13 January 2021 requesting review of PPE recommendations to ensure staff, including those in general practice, are protected from aerosol transmission. What happens as a result of these interventions remains to be seen.

PROTECTING HEALTHCARE WORKERS: VACCINATION

One month after vaccinations with the Pfizer/BioNTech vaccine commenced, NHS England wrote to Trusts and clinical commissioning groups requiring immediate vaccination of frontline staff, including primary care, to ‘Protect the NHS’. However, HCWs’ second vaccine doses have been delayed up to 12 weeks after the first dose. While there is good evidence for the Oxford/AstraZeneca vaccine, the Pfizer/BioNTech vaccine dose delay is occurring despite Medicines and Healthcare products Regulatory Agency approval for, and WHO and Centers for Disease Control and Prevention advice to use the original dosing schedule.

Failure to implement the vaccination programme as delivered in efficacy trials means the protection afforded to HCWs, and indeed the NHS, is unclear. What is clear, is that a further opportunity to offer the best protection to the NHS workforce has been missed, despite the government’s mantra to ‘Protect the NHS’. These deficiencies and shortcomings in protecting the NHS workforce need to be rectified without further delay and will require scrutiny through an independent public inquiry.

Denise Kendrick, GP; Professor of Primary Care Research, University of Nottingham, Nottingham.

Raymond M Agius, Emeritus Professor of Occupational and Environmental Medicine, University of Manchester, Manchester.

John FR Robertson, Consultant Surgeon, University Hospitals of Derby and Burton, NHS Foundation Trust; Professor of Surgery, University of Nottingham, Nottingham.

Herb F Sewell, Emeritus Professor of Immunology and Honorary Consultant Immunologist, University of Nottingham, Nottingham.
“Failure to implement the vaccination programme [Pfizer/BioNTech vaccinations] as delivered in efficacy trials means the protection afforded to healthcare workers, and indeed the NHS, is unclear.”

Marcia Stewart, Emeritus Principal Lecturer, De Montfort University, Leicester.

Provenance Commissioned, externally peer reviewed.

Competing interests The authors have declared no competing interests.

DOI: https://doi.org/10.3399/bjgp21X714953

REFERENCES


ADDRESS FOR CORRESPONDENCE
Denise Kendrick
Division of Primary Care, Floor 13, Tower Building, University Park, Nottingham NG7 2RD, UK.
Email: denise.kendrick@nottingham.ac.uk