Correspondence

Anosmia and hyposmia in health-care workers with undiagnosed SARS-CoV-2 infection

On May 18 2020, Public Health England added new loss of taste or smell to the recognised symptoms associated with COVID-19, consistent with those listed by the Centers of Disease Control and Prevention (Atlanta, GA, USA) and WHO.^{1,2} The identification of loss of sense of smell as a symptom of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) is particularly important for frontline health-care workers who are at high risk of both contracting and spreading SARS-CoV-2.³

Anonymous self-reported questionnaires were distributed to staff at Barts Health NHS Trust (London, UK). In total, 262 healthcare workers from four hospitals completed the questionnaire between April 17 and 23, 2020, of whom, 59% were women, 58% were younger than 40 years, and 6% were older than 60 years, providing a representative sample of the patient-facing workforce. 73 (28%) of 262 participants had been tested for SARS-CoV-2; 56 of whom had a confirmed positive test by PCR. 168 (64%) of 262 responders reported losing their sense of smell or taste in the previous 2 months, with 94 (48%) reporting mild symptoms, 93 (48%) reporting moderate symptoms, and seven (4%) reporting severe symptoms.

Losing sense of smell or taste and developing COVID-19 were strongly associated. Participants who lost their sense of smell or taste were more likely to have a positive SARS-CoV-2 test than those who did not report these symptoms (odds ratio 4.9, 95% CI 1.4-17.1, p=0.01). 97 participants responded to a follow-up survey done between May 22 and 27, 2020; 45 (46%) reported that they had completely regained their sense of smell or taste, 41 (42%) had recovered partially, and seven (7%) had not recovered (not applicable for four [4%] responders). 71 (73%) of 97 responders had continued to work as normal. Around two-thirds of participants reported loss of sense of smell or taste in the previous 2 months, which is highly indicative of SARS-CoV-2 infection (appendix p 2). In comparison, the prevalence of self-reported smell loss varies between 1.4% and 15.3% across published studies.4.5

To date, testing for health-care workers in the National Health Service has been scarce and only recently has been made more widely available. Thus, a large proportion of health-care workers might have already been infected with SARS-CoV-2 and had only mild symptoms, resulting in only a small number of health-care workers being tested. In conclusion, awareness and early recognition of anosmia and hyposmia is needed to identify, urgently test, and isolate affected health-care workers to prevent further spread of disease.

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See Online for appendix