



PPE and improving safety: literature reviewed

The following literature was reviewed to develop the PPE and improving safety guidance published by the RCP.

Brown E, Chan LM. Should chest compressions be considered an aerosol-generating procedure? A literature review in response to recent guidelines on personal protective equipment for patients with suspected COVID-19. *Clin Med* 2020;20(5):e154–9. www.rcpjournals.org/content/clinmedicine/20/5/e154 [Accessed 02 October 2020].

Ellis R, Hay-David AGC, Brennan PA. Operating during the COVID-19 pandemic: How to reduce medical error. *Br J Oral Maxillofac Surg*. 2020;58(5):577–580. www.ncbi.nlm.nih.gov/pmc/articles/PMC7152882 [Accessed 01 October 2020].

Fonseka T, Ellis R, Salem H, Brennan PA, Terry T. The effects of COVID-19 on training within urology: Lessons learned in virtual learning, human factors, non-technical skills and reflective practice. *J Clin Urol* 2020;2051415820950109.

Garner A, Laurence H, Lee A. Practicality of performing medical procedures in chemical protective ensembles. *Emerg Med Australas* 2004;16:108–1. <https://onlinelibrary.wiley.com/doi/abs/10.1111/j.1742-6723.2004.00560.x> [Accessed 02 October 2020].

General Medical Council. *Coronavirus: Your frequently asked questions*. GMC, 2020. www.gmc-uk.org/ethical-guidance/ethical-hub/covid-19-questions-and-answers#Working-safely [Accessed 08 October 2020].

Grote H. *Read my lips: the downside of PPE (and how you can improve communication)*. RCP, 2020. www.rcplondon.ac.uk/news/read-my-lips-downside-ppe-and-how-you-can-improve-communication [Accessed 05 November 2020].

Hancock PA. Specifying and mitigating thermal stress effects on cognition during personal protective equipment use. *Hum Factors* 2020;62(5):697–703. <https://pubmed.ncbi.nlm.nih.gov/32525427/> [Accessed 02 October 2020].

Healthcare Safety Investigation Branch. *COVID-19 transmission in hospitals: management of the risk – a prospective safety investigation*. HSIB, 2020. www.hsib.org.uk/investigations-cases/covid-19-transmission-hospitals/final-report [Accessed 10 November 2020].

Johnson AT. Respirator masks protect health but impact performance: a review. *J Biol Eng*. 2016;10:4. www.ncbi.nlm.nih.gov/pmc/articles/PMC4748517/ [Accessed 02 October 2020].

Koh C J, Khoo D. Muffling of healthcare: Assessing the impact of personal protective equipment on speaking volume in an Endoscopy Centre. *Dig Endosc* 2020;32:997.

Loibner M, Hagauer S, Schwantzer G, Berghold A, Zatloukal K. Limiting factors for wearing personal protective equipment (PPE) in a health care environment evaluated in a randomised study. *PLoS One* 2019;14(1):e0210775. <https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0210775> [Accessed 02 October 2020].

Parush A, Wacht O, Gomes R, Frenkel A. Human factor considerations in using personal protective equipment in the COVID-19 pandemic context: Binational Survey Study. *J Med Internet Res* 2020;22(6):e19947. www.ncbi.nlm.nih.gov/pmc/articles/PMC7301688/ [Accessed 02 October 2020].

Royal College of Emergency Medicine. *Communication errors with PPE – COVID-19 Safety Flash*. RCEM, 2020. www.rcem.ac.uk/docs/Safety%20Resources%20+%20Guidance/Covid%2019%20Pandemic%20-%20Communication%20Error%20Safety%20Flash%20FINAL.pdf [Accessed 08 October 2020].

Sevastaru S, Curtis S, Kole LE, Nadarajah P. Failure modes and effect analysis to develop transfer protocols in the management of COVID-19 patients. *Br J Anaesth* 2020;125(2):e251–3. [https://bjanaesthesia.org/article/S0007-0912\(20\)30270-1/fulltext](https://bjanaesthesia.org/article/S0007-0912(20)30270-1/fulltext) [Accessed 01 October 2020].

Thomas JP, Srinivasan A, Wickramarachchi CS et al. Evaluating the national PPE guidance for NHS healthcare workers during the COVID-19 pandemic. *Clin Med* 2020;20(3):242–7. www.rcpjournals.org/content/clinmedicine/20/3/242 [Accessed 02 October 2020].

Webb H, Parson M, Hodgson LE, Daswani K. Virtual visiting and other technological adaptations for critical care. *Future Healthc J* 2020;7(3):e93–5. www.rcpjournals.org/content/futurehosp/early/2020/09/10/fhj.2020-0088 [Accessed 02 October 2020].