

COV/IOM/20/01 - Evaluation of the effectiveness of novel workplace interventions in protecting healthcare workers from virus infection

Many novel interventions have been proposed to protect healthcare workers from infectious agents. The main difficulty in prioritising the most effective interventions is the lack of knowledge about the relative contribution of different routes to worker exposure to the virus responsible for Covid-19. This project will collect data from a number of healthcare settings to quantify the concentration of virus particles in the air and on surfaces, and to collect information about how healthcare workers are exposed, including behaviours such as how often they touch surfaces and then their face or mouth. We will construct a mathematical model that could be used to assess the effectiveness of possible interventions in specific settings and for specific tasks.