

Guidance on infection prevention and control for COVID-19

June 2020











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Guidance on infection prevention and control for COVID-19

This updated guidance outlines the infection prevention and control advice for health and social care workers involved in receiving, assessing and caring for patients who are a possible or confirmed case of COVID-19.

This infection prevention and control advice is considered good practice in response to the COVID-19 pandemic. It is based on the best evidence available from previous pandemic and inter-pandemic periods and focuses on the infection prevention and control aspects of this disease only, recognising that a preparedness plan will consider other counter measures.

The main changes in this updated guidance are:

- Enhanced PPE recommendations for a wide range of health and social care contexts
- Inclusion of individual and organisational risk assessment at local level to inform PPE use
- Recommendation of single sessional (extended) use of some PPE items
- Re-usable PPE can be used. Advice on suitable decontamination arrangements should be obtained from the manufacturer, supplier or local infection control
- Guidance for when case status is unknown and SARS-CoV-2 is circulating at high levels
- Recommendation on patient use of face masks

The World Health Organisation (WHO) has confirmed that this guidance is consistent with the highest levels of protection in the world for the procedures with the highest risk of transmission.

The emerging evidence base on COVID-19 is rapidly evolving. Further updates may be made to this guidance as new detail or evidence emerges.

About Coronavirus/COVID 19

A coronavirus is a type of virus. As a group, coronaviruses are common across the world. COVID-19 is a new strain of coronavirus first identified in Wuhan City, China in December 2019.

The incubation Period of COVID-19 is between 2 to 14 days, with an average of 5 days. This means that if a person remains well 14 days after contact with someone with confirmed coronavirus, they have not been infected.

Signs and symptoms of COVID-19

The following symptoms may develop in the 14 days after exposure to someone who has COVID-19 infection:

- New continuous cough
- High temperature
- Anosmia (the loss of or a change in your normal sense of smell. It can also affect your sense of taste as the two are closely linked)

Generally, these infections can cause more severe symptoms in people with weakened immune systems, older people, and those with long-term conditions like diabetes, cancer and chronic lung disease.

How COVID-19 is spread

From what we know about other coronaviruses, spread of COVID-19 is most likely to happen when there is close contact (within 2 metres or less) with an infected person. It is likely that the risk increases the longer someone has close contact with that person.

Respiratory secretions produced when an infected person coughs or sneezes containing the virus are most likely to be the main means of transmission.

There are 2 main routes by which people can spread COVID-19:

- Infection can be spread to people who are nearby (within 2 metres) or possibly could be inhaled into the lungs.
- It is also possible that someone may become infected by touching a surface, object or the hand of an infected person that has been contaminated with respiratory secretions and then touching their own mouth, nose, or eyes (such as touching door knob or shaking hands then touching own face)

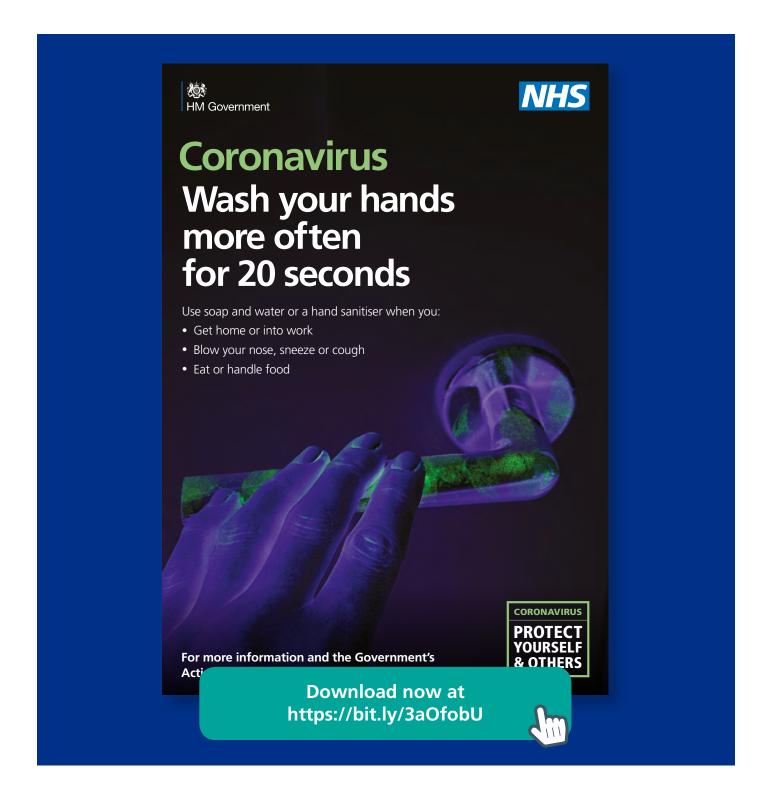
It is also possible that people can have no symptoms and still carry the infection without knowing they have it.

Preventing spread of infection

There is currently no vaccine to prevent COVID-19. The best way to prevent infection is to avoid being exposed to the virus.

Public Health England (PHE) recommends that the following general cold and flu precautions are taken to help prevent people from catching and spreading COVID-19:

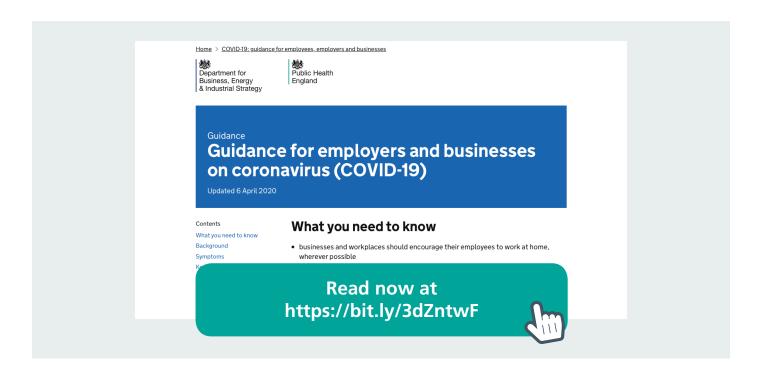
• Cover your mouth and nose with a tissue or your sleeve (not your hands) when you cough or sneeze. See Catch it, Bin it, Kill it:



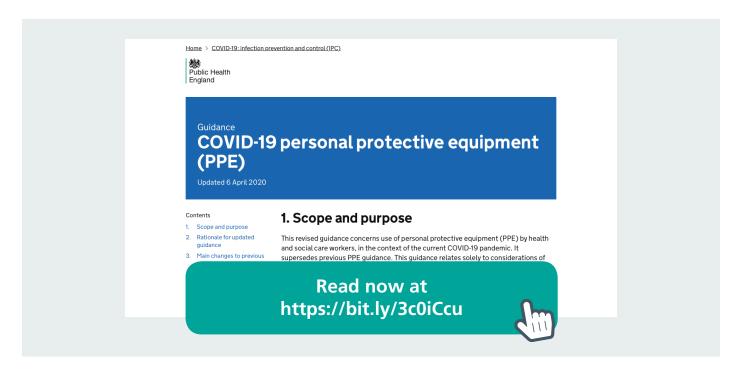
- Put used tissues in the bin straight away
- Wash your hands with soap and water often use hand sanitiser gel if soap and water are not available. See hand washing guidance:



- Try to avoid close contact with people who are unwell
- Clean and disinfect frequently touched objects and surfaces
- Do not touch your eyes, nose or mouth if your hands are not clean



The UK does not currently advise use of face masks outside of care settings, in line with PPE guidance:



The best thing you can do to prevent the spread of the infection is to **Stay At Home**. Your household should also self-isolate for 14 days as per the current guidelines, and you should stay at home for 7 days, or longer if you still have symptoms other than cough or loss of sense of smell. Your household should only go out to go to work, for essentials such as food, to pick up medicines or healthcare.

Social Distancing

The guidance on social distancing was published on 16th March and updated 23rd March.



Social distancing measures are steps you can take to reduce social interaction between people. This will help reduce the transmission of coronavirus (COVID-19). Depending on what role you have at work your employer may also implement social distancing measures but they are also important to be aware of when you are not at work.

They are to:

- 1. Avoid contact with someone who is displaying symptoms of coronavirus (COVID-19). These symptoms include high temperature and/or new and continuous cough
- 2. Avoid **non-essential use of public transport** when possible
- 3. **Work from home**, where possible. Your employer should support you to do this. Please refer to employer guidance for more information
- 4. Avoid large and small gatherings in public spaces, noting that pubs, restaurants, leisure centres and similar venues are currently shut as infections spread easily in closed spaces where people gather together.
- 5. Where you are coming into contact with other people **maintain a distance of 2 metres** between yourself and others
- 6. **Avoid gatherings with friends and family**. Keep in touch using remote technology such as phone, internet, and social media
- 7. Use telephone or online services to contact your GP or other essential services

Everyone should be trying to follow these measures as much as is practicable.

If you are a care worker, social worker or other frontline worker who needs to continue to see our vulnerable resident's people may be extra vigilant before allowing people into their homes and you may be asked to take additional precautions such as using personal protective equipment (PPE) where necessary, as determined by your service manager.

For some essential roles it will not be possible to maintain a distance of 2 metres. Each service will review those roles in the context of government guidance and take steps to follow measures as much as is practicable, for example, maintaining as much distance as possible in the context of the role being undertaken and making hand sanitizer available where employees don't have access to soap and water.

Use of PPE where a person has no COVID-19 symptoms

COVID-19 is spread through respiratory droplets (e.g. coughing) or via surfaces.

People without symptoms will not be coughing, so PPE intended to prevent respiratory droplets (e.g. masks) is not necessary.

- If neither the worker nor the person receiving support are symptomatic, **then no PPE is required** above and beyond normal good hygiene practices especially hand washing.
- Regular hand washing and cleaning surfaces and equipment that a non-symptomatic individual may have used/touched are the key measures needed to prevent further spread of infection.
- If staff believe there is a risk to themselves or the individuals they are caring for they need to contact their Line Manager / Team Leader to complete **an immediate risk assessment** (see below).

Risk assessment during the Covid-19 pandemic

Before providing direct care to an individual, a risk assessment should take place. Please take the following steps:

1. Initial Risk assessment

- Where possible conduct an initial risk assessment by phone, or by some other remote triage process.
- This should be done prior to entering the person's home, work premises or clinical area.
- It can also be done at a distance of 2 metres on entering a premises for example in a care home review the person for symptoms before delivering care.

2. Assess the risk of virus transmission

- If an individual has no symptoms and is **NOT** being shielded then follow the advice above relating to *Use of PPE where a person has no COVID-19 symptoms*.
- If an individual is displaying any COVID-19 symptoms then follow the advice in the table on page 13.
- If you are unsure, is there evidence of sustained transmission of virus in that setting? If so, then follow guidance in the next section.

As part of the risk assessment you should also consider:

- What procedures are going to be done? If these involve personal contact within 2 metres consider use of PPE.
- Is the staff member in a setting or role where they will be in frequent contact with people where their COVID-19 status is unknown? Consider sessional PPE as per new guidance at page 10. If deemed necessary after the risk assessment, the worker should wear a fluid repellent surgical mask with or without eye protection, as determined by the risk assessment.
- Use PPE depending on type of care provided and likely risk. Examples include splashing, or any aerosol generating procedures (see below). PPE should only be used if care is provided within 2 metres of a person with COVID-19 symptoms.

Types of PPE that may be used

The standard PPE to be used is:

- Fluid-repellent surgical mask (Type IIR)
- Gloves
- Apron
- Eye protection only if there is a risk of splashing bodily fluids in the eyes

Aerosol Generating Procedures

Aerosol Generating Procedures (AGPs) is the name for a range of medical procedures which can increase the risk of infection – for example a tracheostomy procedure, cough inducing procedures.

The appropriate PPE for any aerosol generating procedure is:

- FFP3 mask
- Long-sleeve gown

Both should be disposable. If no long sleeve gowns are available, ensure arms are bare below the elbow and wash up to elbow.

Note it is highly uncommon for any AGPs to happen outside of a hospital so use of this PPE will not be necessary for the majority of staff in social care.

Single session use of PPE

Fluid repellent (Type IIR) surgical masks (FRSM) and eye protection can be subject to single session use.

A single session refers to a period of time where a health and social care worker is undertaking duties in a specific clinical care setting or exposure environment. For example, a session might comprise a ward round, or taking observations of several patients in a cohort bay or ward.

A session ends when the health and social care worker leaves the clinical care setting or exposure environment. Once the PPE has been removed it should be disposed of safely. The duration of a single session will vary depending on the clinical activity being undertaken.

PPE needs to be put on immediately BEFORE an episode of care and removed immediately AFTER.

The order in which PPE needs to be removed is

- 1. Apron
- 2. Gloves
- 3. Mask/eye protection

PPE needs to be used properly and therefore:

Masks should

- Be well-fitting covering both nose and mouth
- Not dangle around the neck after or between use
- Not be touched once in position
- Be changed when they become moist
- Be worn once then disposed of hand hygiene should be performed after disposal

Gloves must

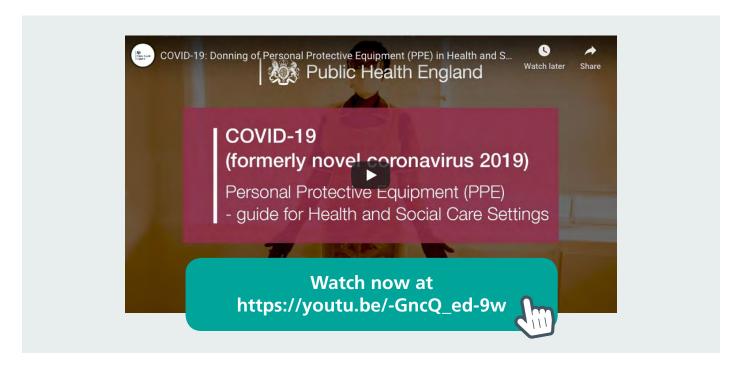
- Be worn when providing direct care and exposure to blood and/or other body fluids is likely - including during equipment and environmental decontamination
- Be changed immediately following the care episode or the task undertaken

Aprons must

- Be worn to protect uniform / clothes from contamination when providing direct care and during environmental and equipment decontamination.
- Be changed between patients and immediately after completion of a procedure/task.

The following video from Public Health England shows the correct ways to put on (donning) and take off (doffing) PPE.

Please make sure you watch it if you think you will be required to use PPE.



Preventing spread at home as a frontline worker

The appropriate use of personal protective equipment (PPE) will protect staff uniform from contamination in most circumstances. It is best practice to change into and out of uniforms, or dedicated work clothing, at work and not wear them when travelling; this is based on public perception rather than evidence of an infection risk.

Uniforms should be transported home in a disposable plastic bag. After emptying contents, dispose of the bag into the household black bag waste stream.

Uniforms should be laundered:

- Separately from other household linen;
- In a load not more than half the machine capacity;
- At the maximum temperature the fabric can tolerate, then ironed, line dried or tumbled-dried.

NB. This does not apply to community health workers who are required to travel between patients in the same uniform.

Safe ways for working for all health and care workers

 Staff should be trained on donning and doffing PPE. Videos are available for training, such as here



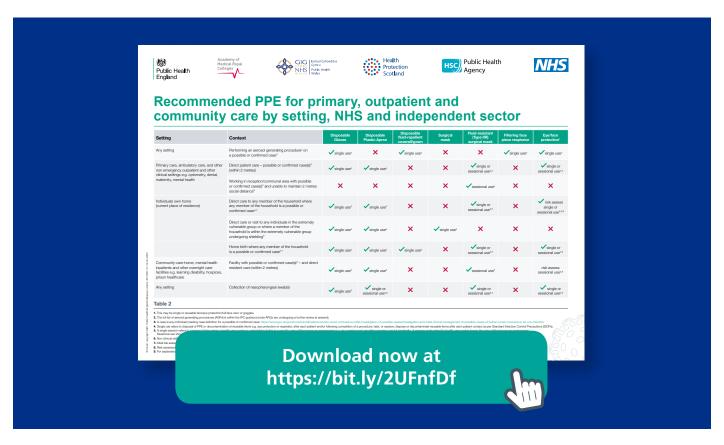
- Staff should know what PPE they should wear for each setting and context.
- Staff should have access to the PPE that protects them for the appropriate setting and context
- Gloves and aprons are subject to single use as per SICPs with disposal after each patient or resident contact
- Fluid repellent surgical mask and eye protection can be used for a session of work rather than a single patient or resident contact
- Gowns can be worn for a session of work in higher risk areas
- Hand hygiene should be practiced and extended to exposed forearms, after removing any element of PPE
- Staff should take regular breaks and rest periods

In addition to wearing PPE, clinicians should practice usual infection prevention and control measures, including environmental cleaning and hand hygiene to reduce the risk of onward transmission.

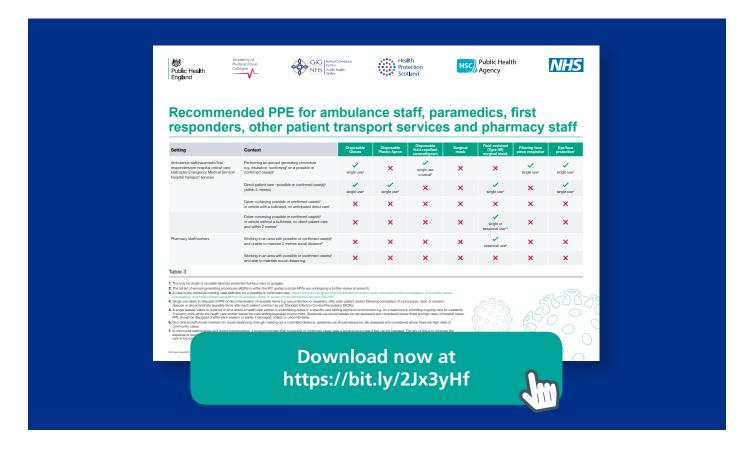
Recommended PPE for healthcare workers by secondary care inpatient clinical setting, NHS and independent sector



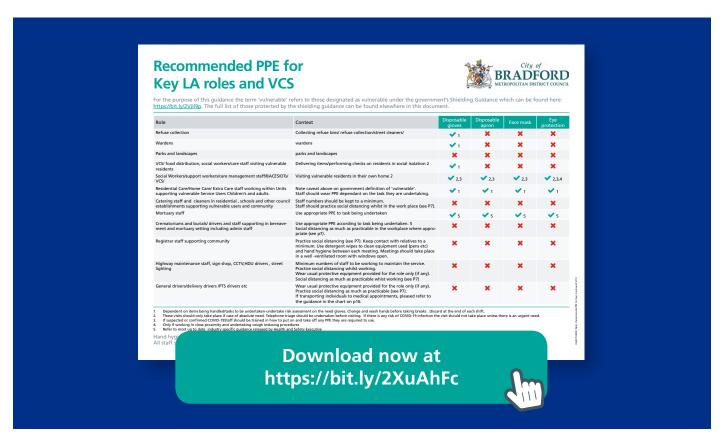
Recommended PPE for primary, outpatient and community care by setting, NHS and independent sector



Recommended PPE for ambulance staff, paramedics, first responders, other patient transport services and pharmacy staff



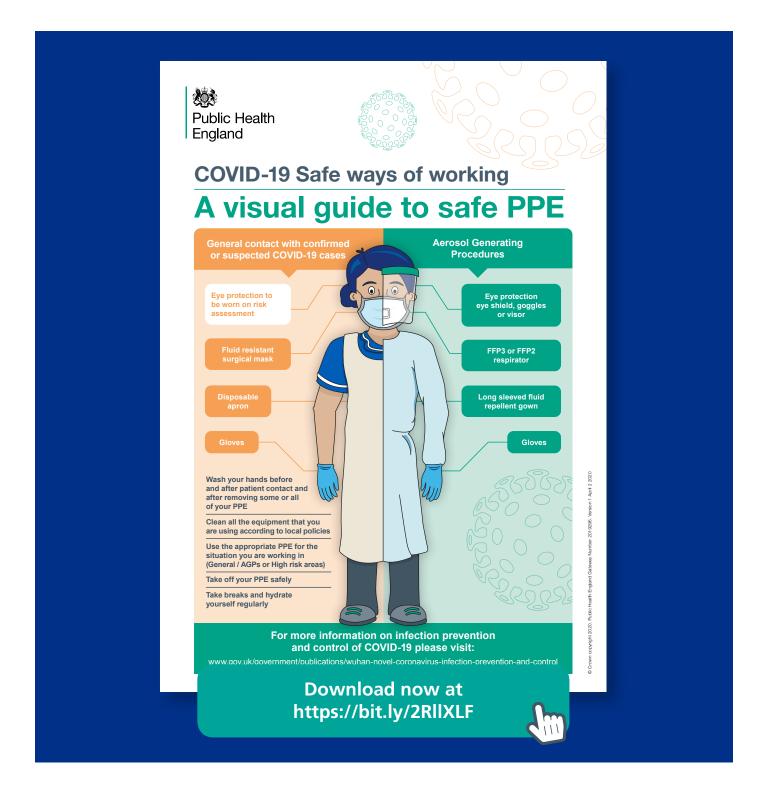
Recommended PPE for Key LA roles and VCS



Additional considerations, in addition to standard infection prevention and control precautions, where there is sustained transmission of COVID-19, taking into account individual risk assessment for this new and emerging pathogen, NHS and independent sector

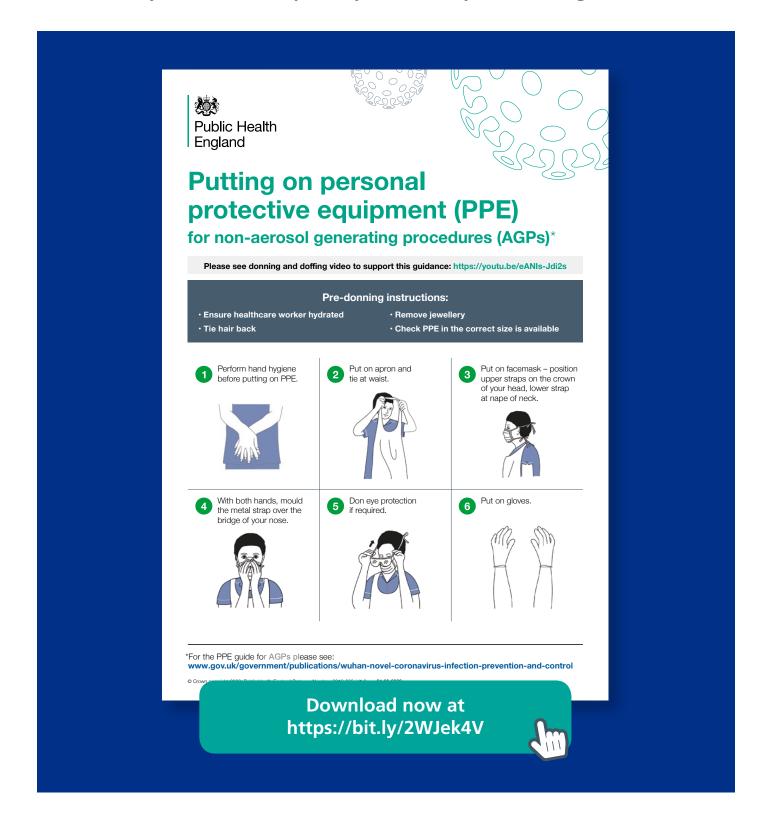


COVID-19 Safe ways of working: A visual guide to safe PPE



Putting on personal protective equipment (PPE)

Click on this guidance to learn more about **how you must put on PPE**, for non-aerosol generating procedures (AGPs). It reinforces the importance of ensuring you are hydrated, have tied back your hair, removed jewellery and ensured you are wearing the correct size.



When to use a surgical face mask or FFP3 respirator



Public Health England

When to use a surgical face mask or FFP3 respirator

When caring for patients with suspected or confirmed COVID-19, all healthcare workers need to - prior to any patient interaction - assess the infectious risk posed to themselves and wear the appropriate personal protective equipment (PPE) to minimise that risk.

When to use a surgical face mask



When to use an FFP3 respirator



In cohorted area (but no patient contact)

Close patient contact (within one metre)

When carrying out aerosol generating procedures (AGP) on a patient with possible or confirmed COVID-19

In high risk areas where AGPs are being conducted (eg: ICU)

For example:

Cleaning the room equipment cleaning, discharge patient room cleaning, etc

PPE to be worn

 Surgical face mask (along with other designated PPE for cleaning)

For example:

Providing patient care, direct home care visit, diagnostic imaging, phlebotomy services, physiotherapy, etc

PPE to be worn Surgical face mask

- Apron Gloves
- Eve protection (if risk of contamination of eyes by splashes or droplets)

The AGP list is:

- · Intubation, extubation and related procedures such as manual ventilation and open suctioning
- Tracheotomy/tracheostomy procedures (insertion/open suctioning/removal)

 Bronchoscopy
- Surgery and post-mortem procedures involving highspeed devices
- Some dental procedures (such as high-speed drilling)
- Non-Invasive Ventilation (NIV) such as Bi-level Positive Airway Pressure (BiPAP) and Continuous Positive Airway Pressure ventilation (CPAP)
- High-Frequency Oscillating Ventilation (HFOV)
- High Flow Nasal Oxygen (HFNO), also called High Flow Nasal Cannula
- Induction of sputum

PPE to be worn

- FFP3 respirator
- Long sleeved disposable gown
- Disposable eye protection

Always fit check the respirator

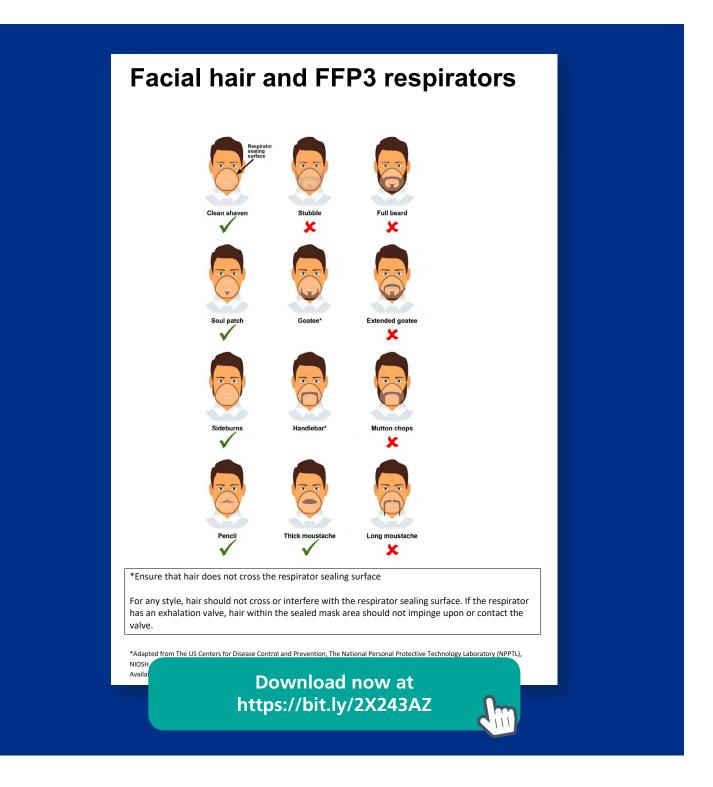
REMEMBER

- PPE should be put on and removed in an order that minimises the potential for self-contamination
- The order for PPE removal is gloves, hand hygiene apron or gown, eye protection, hand hygiene, surgical face mask or FFP3 respirator, hand hygiene

Download now at https://bit.ly/3aLiRbj



Facial hair and FFP3 respirators



Disposing of PPE correctly

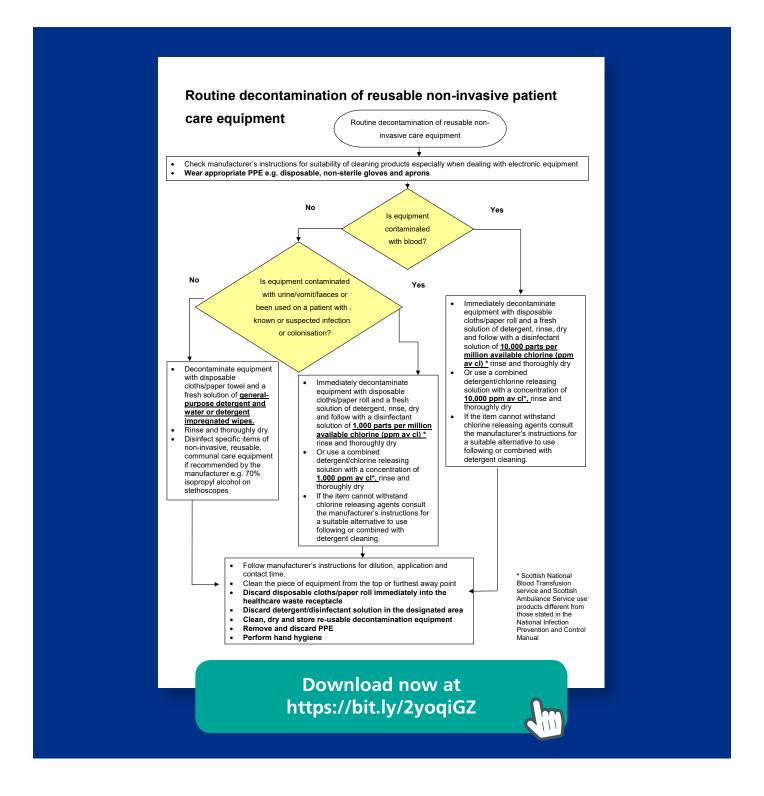
All PPE that is used when encountering confirmed cases of COVID-19 is single-use only and should be changed immediately after each patient and/or following completion of a procedure or task.

PPE should be disposed of after use into the correct waste stream i.e. healthcare/clinical waste (this will require disposal via orange or yellow bag waste).

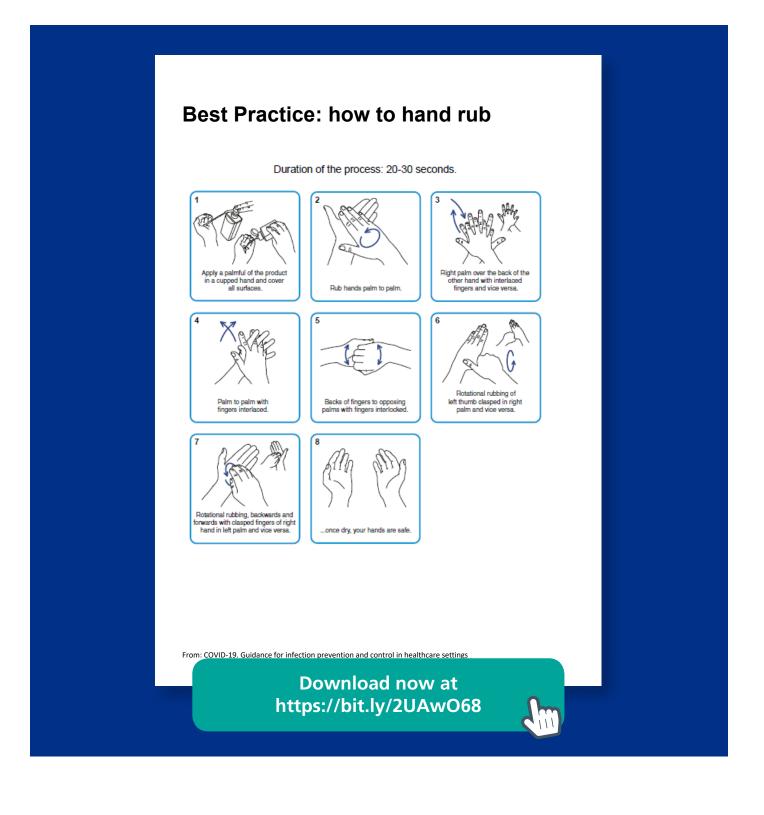
A video is also available here which shows staff the correct order of removal and how to dispose of it safely.



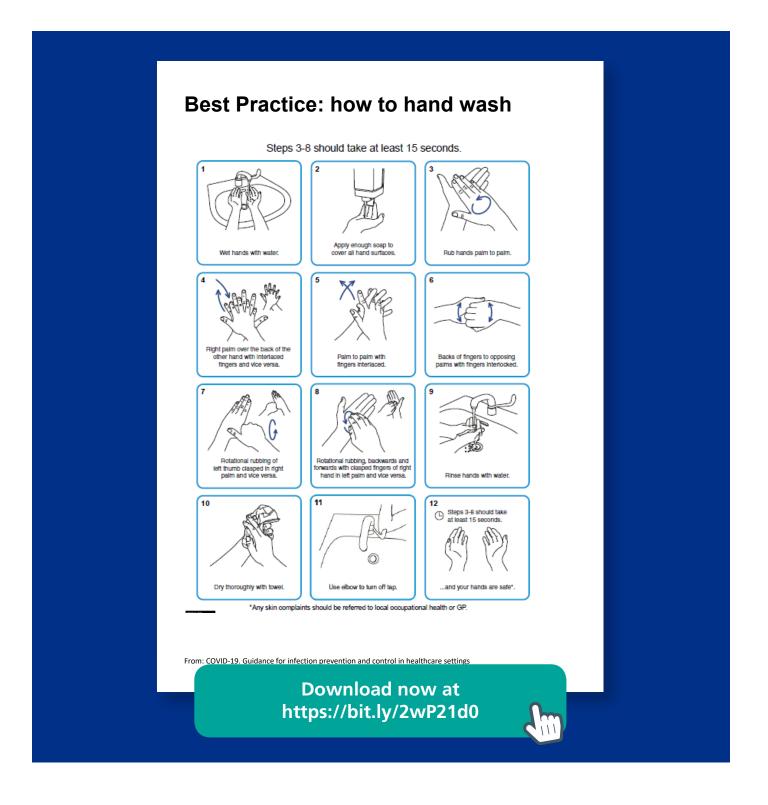
Routine decontamination of reusable non-invasive patient care equipment



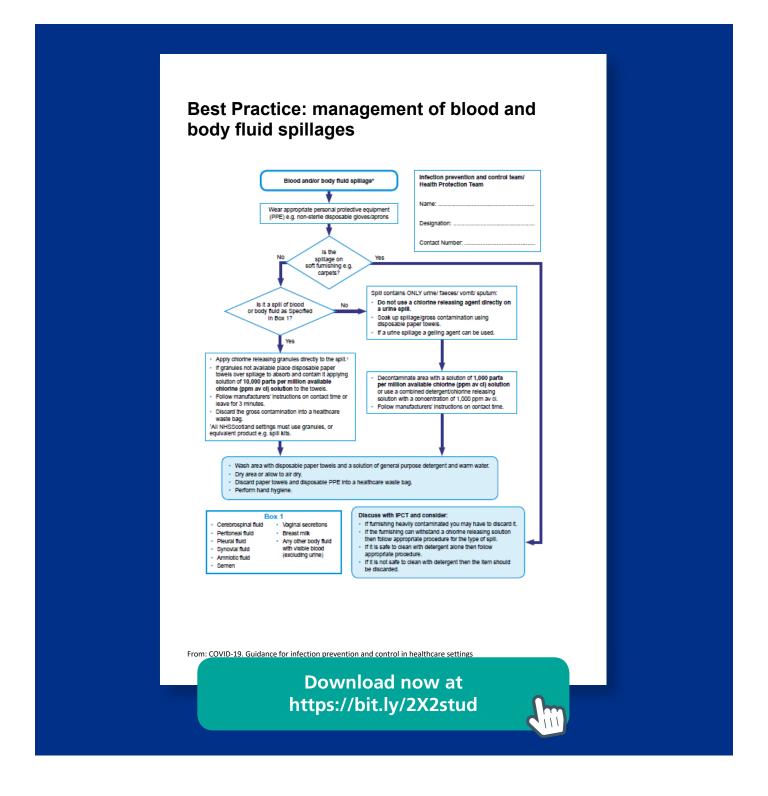
Best practice: how to hand rub



Best practice: hand wash



Best practice: management of blood and body fluid spillages



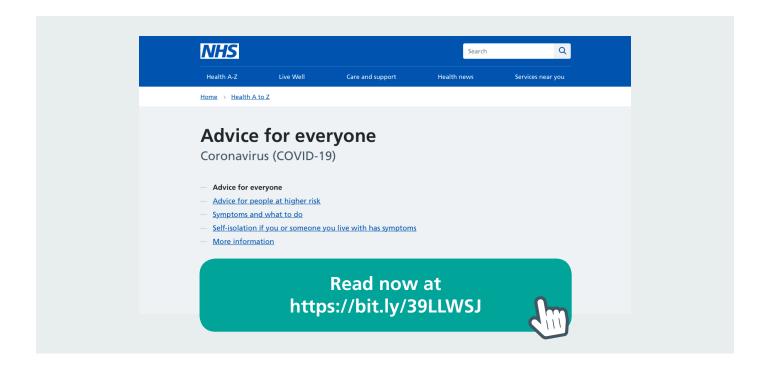
Specific guidance for providers of residential care

This guidance is for registered providers of accommodation for people who need personal or nursing care. This includes registered residential care and nursing homes for people with learning disabilities, mental health and/or other disabilities.

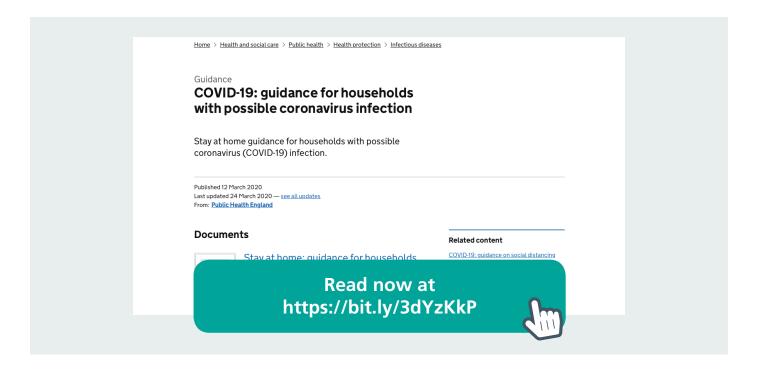
It sets out key messages to support planning and preparation in the event of an outbreak or widespread transmission of COVID-19.

If a member of staff is concerned they have COVID-19

If a member of staff is concerned they have COVID-19 they should follow the NHS guidance:



If they are advised to self-isolate at home they should follow the PHE guidance:



If advised to self-isolate at home, they should not visit or care for individuals until safe to do so.

How care homes can minimise the risks of transmission

Care home providers should stop all visits to residents from friends and family. Medical staff and delivery couriers can still visit, but you should leave a hand sanitiser by the entrance and ask them to wash their hands as soon as they enter the building.

If a resident has symptoms of COVID-19

Care homes are not expected to have dedicated isolation facilities for people living in the home but should implement isolation precautions when someone in the home displays symptoms of COVID-19 in the same way that they would operate if an individual had influenza. If isolation is needed, a resident's own room can be used. Ideally the room should be a single bedroom with en-suite facilities.

All staff will be trained in hand hygiene. Much of the care delivered in care homes will require close personal contact. Where a resident is showing symptoms of COVID-19, steps should be taken to minimise the risk of transmission through safe working procedures. Staff should use personal protective equipment (PPE) for activities that bring them into close personal contact, such as washing and bathing, personal hygiene and contact with bodily fluids. Aprons, gloves and fluid repellent surgical masks should be used in these situations. If there is a risk of splashing, then eye protection will minimise risk.

Gloves and aprons should be changed between episodes of care however face masks can be used between residents for a session of care (see Table 2). Eye protection can be used between episodes of care but must be cleaned between each episode.

It is essential that used PPE is stored securely within disposable rubbish bags. These bags should be placed into another bag, tied securely and kept separate from other waste within the room. This should be put aside for at least 72 hours before being disposed of as normal. Care homes have well-established processes for waste management.

Clean frequently touched surfaces. Personal waste (such as used tissues, continence pads and other items soiled with bodily fluids) and disposable cleaning cloths can be stored securely within disposable rubbish bags. These bags should be placed into another bag, tied securely and kept separate from other waste within the room. This should be put aside for at least 72 hours before being disposed of as normal.

Do not shake dirty laundry before washing. This minimises the possibility of dispersing virus through the air. Wash items as appropriate in accordance with the manufacturer's instructions. Dirty laundry that has been in contact with an ill person can be washed with other people's items. Items heavily soiled with body fluids, such as vomit or diarrhoea, or items that cannot be washed, should be disposed of, with the owner's consent.

Guidance has been published recommending action for all members of a household if one person is showing symptoms: https://bit.ly/3dYzKkP. This guidance does not normally apply to care homes because of the ability of care homes to provide isolation precautions for individuals living in the home.

Care homes can seek additional advice from their local Public Health England health protection teams. Testing of residents may be organised if care homes have several cases at a time.

Wearing personal protective equipment

If neither the care worker nor the individual receiving care and support is symptomatic, then no personal protective equipment is required above and beyond normal good hygiene practices.

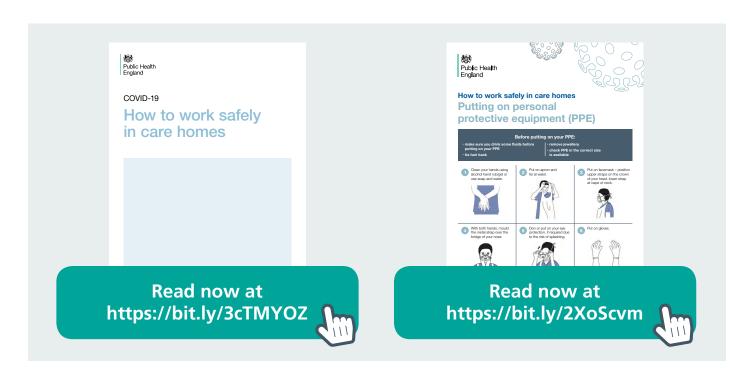
General interventions may include increased cleaning activity to reduce risk of retention of virus on hard surfaces, and keeping property properly ventilated by opening windows whenever safe and appropriate.

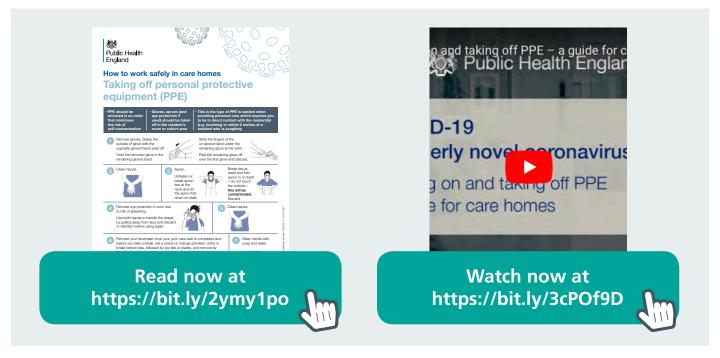
You can download all the latest comprehensive advice on how to work safely in care homes here: https://bit.ly/3cTMYOZ.

For the latest guidance on **putting on** PPE in a care home setting, please download this poster here: https://bit.ly/2XoScvm.

For the latest guidance on **taking off** PPE in a care home setting, please download this poster here: https://bit.ly/2ymy1po.

This video has also been produced to show you how best to put on and take off your PPE: https://bit.ly/3cPOf9D.





Swabbing in care homes

New definition of 'contact'

There is emerging evidence of asymptomatic and pre-symptomatic infections. We know a number of people are infectious in the period before symptom onset, hence the new contact definition of 48 hours before onset, to 7 days post onset. You can read more here: https://bit.ly/3706AyM

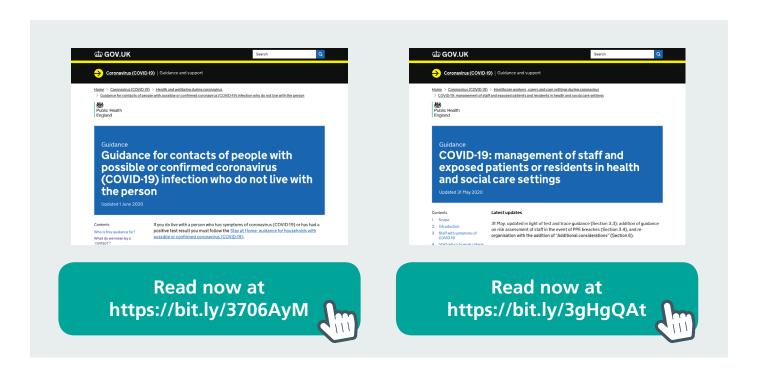
Key to control is ensuring contacts are identified and excluded /cohorted promptly, if they develop symptoms they should then be tested. Please note that staff do not need to be excluded, if they have been wearing appropriate PPE while caring for patients.

Re-swabbing - when to do it

Re-swabbing should occur if further symptoms develop. We know that viral RNA can be detected in PCR samples for up to 7 weeks following infection. However this is "old" virus and a not a driver of infections. If you continue to test people who have previously tested positive, and are not symptomatic, you are likely to find it for a number of weeks.

Best practice in the management of asymptomatic staff

Asymptomatic staff who test positive should be excluded for 7 days from test result. You can read more here: https://bit.ly/3qHqQAt



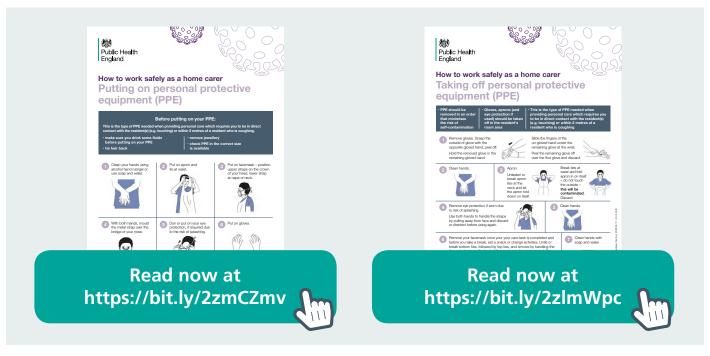
Specific guidance for providers of home care (domiciliary care)

You can download all the latest comprehensive advice on how to work safely in a home care setting here: https://bit.ly/2zc0bnJ.

For the latest guidance on **putting on** PPE in a home care setting, please download this poster here: https://bit.ly/2zmCZmv.

For the latest guidance on **taking off** PPE in a home care setting, please download this poster here: https://bit.ly/2zlmWpc.





Frequently Asked Questions: on wearing Personal Protective Equipment (PPE)







on wearing Personal Protective Equipment (PPE)

What is PPF?

Personal Protective Equipment is what we use at work to protect ourselves (all health care workers) and our patients from coronavirus. The amount of PPE you need will depend upon where you work.

Why do we have a new guide on PPE?

We are learning more about coronavirus every day. The new guide has been produced by experts from many different areas and takes into account this new knowledge.

Does the WHO (World Health Organisation) support his guide?

The WHO has confirmed that the UK's guidance is consistent with the highest levels of protection in the world.

Does all face-to-face
patient contact put me
at risk of catching
coronavirus and
should I wear PPE
all the time?
Looking after patients
means that we often
have to get closer than

2 metres. What PPE you need to wear will depend upon where you work. We take your safety very seriously and you will be given clear instructions on what to wear in each area.

What is an aerosol generating procedure (AGP)?

An AGP results in tiny droplets of fluid that become suspended in the air and may contain coronavirus which could then be breathed in. If you are working in an area where AGPs are performed, you will be given the right PPE to protect yourself and training to make sure you use it correctly.

If I am on a COVID-19 ward but am not in direct contact with patients, do I need to wear PPE?

Yes, if you are on a COVID-19 ward more than 2 metres from a patient then you should wear a face mask and assess the need for eye protection.

If you are within 2 metres of a patient on a COVID-19 ward, you should use disposable gloves, a disposable apron and fluid-resistant surgical mask, with eye protection. If an AGP is to be performed you will need more protection and these procedures will not be performed until all staff in the area are safe. You will need to wear gloves, gown, an FFP3 mask (or FFP2) and eye protection.

Can the virus land and stay on my hair? Do I need to wear a cap to cover my hair as well as recommended PPE?

The virus does not land and stay on hair for any length of time. Surgical hats or other headwear is not required for clinical staff apart from areas where they are normally worn such as operating theatres.

Download now at https://bit.ly/2XfQRIL

