



Washington State Veterinary Medical Association

A Guide to Mitigating the Risk of Infection in Veterinary Practices During the COVID-19 Pandemic

June 30, 2021

Disclaimer:

As Washington state individuals and business prepare to open up to full capacity and operations, veterinary practices should still take appropriate measures to protect both clients and staff from COVID-19. This guide is intended to assist veterinary practices to implement appropriate measures to ensure the health and safety of both veterinary clients and practice staff.

Going forward, veterinarians are strongly encouraged to continue to use their professional judgement to determine whether services or procedures are appropriate for specific patients based on their individual circumstances, and balance the need for treatment with the associated risk to the health of the client and the practice team.

This document was prepared by Dr. Scott Weese, DVM, DVSc, DACVIM, University of Guelph and the Ontario Veterinary Medical Association. With their permission the Washington State Veterinary Medical Association has adapted it to fit Washington's proclamations by the Governor and the Washington State Department of Health's mandates.



INDEX

Topic	Page
Overview	4
Reopening Considerations	4
Limiting Numbers	5
Outdoor Activities	5
Clinic Occupancy Limits	5
Maximizing Distancing	6
Limit Contact Times	6
Ventilation	6
Physical Barriers	6
Vaccination	7
Staff and Client Screening	7
In Room air Filtration	7
Masks and Social Distancing Requirements	7
Vaccinations	8
Time Off Work for At-Risk Employees	10
General Concepts	11
SARS-Cov-2 Infection in Animals	12
Allowing Clients in the Practice	13
Identification of High-Risk Clients	14
Monitoring Temperatures	14
Client Communication	14
Appointment Only	15
Clinic Entrance	15
Reception	15
Examination Rooms	16
Streamlining Owner/Patient Processing	16
Alternate Service Delivery	17
Telemedicine	17
Hybrid Appointments	17
Food/Medication Delivery	17
Food/Medication Pickup	17
Practice Visitors	18
General Infection Prevention and Control	19
Ensure Physical Distancing	19
Hand Hygiene	20
Personal Protective Equipment	10
Animals as Fomites	21
Facility Management	21
Clinic Flow and Barriers	21
Cleaning and Disinfection	22
Ventilation and Air Management	23
CO2 Monitoring	23



Air Filtration and Treatment	23
Staff Management	24
Minimizing Clinic Staffing	24
Cohorting	24
Clinic Bubbles	25
Self-Monitoring	25
Exposed Personnel	25
Infected Personnel	25
Recovered Personnel	26
COVID Alert Mobile App	26
Outside the Physical Practice	26
Identification of High-Risk Clients/Facilities	26
On Farms	26
Mobile Companion Animal Practices	27
Resources	27
Appendix A: Recommended Use of Masks	28
Appendix B: Recommended Use of PPE	29



Overview

The COVID-19 pandemic has impacted the delivery of veterinary medicine, like virtually all sectors. While societal containment measures are being decreased, the risk posed by COVID-19 will continue for months or years to come, and control measures of varying forms will be required during this time. Veterinarians will need to continue to implement measures to minimize the risk of spread of SARS-CoV-2, the cause of COVID-19, associated with veterinary practice.

As COVID-19 is predominantly, if not exclusively, maintained through human-to-human transmission, the overall goal of social distancing is to reduce human-to-human contact, both by reducing the incidence of contacts and reducing the closeness and duration of any required contacts. It is recognized that complete social distancing is not possible in veterinary medicine; therefore, measures must be in place to reduce the risk of exposure when distancing is not possible.

The role of animals in transmission of SARS-CoV-2 is unclear. Zoonotic transmission, if it occurs, is presumably very rare. However, veterinarians are at the forefront of risk groups, particularly as they may have contact with animals owned by people with active COVID-19. While the risk is low, it is impossible to say that it is zero. Therefore, measures to minimize zoonotic transmission risks are indicated.

There is no standard approach to COVID-19 control in veterinary practice that would apply to all situations and practice types. Rather, there is a set of expectations and areas of consideration that veterinarians and veterinary clinics must evaluate and apply, as applicable. Below is a set of resources, tips and best practices to help employers and employees prevent the spread of COVID-19 and work together to reopen the state.

In addition to reviewing and implementing recommendations set out in this guide, employers and workers in Washington have certain duties and rights under *the Occupational Health and Safety Act* (OHSA) and its regulations. Employers should also review and follow any applicable directives and guidance coming from the Washington State Departments of Health and Labor & Industries.

Reopening Considerations

As the incidence of COVID-19 decreases, vaccination rates increase and public health measures are relaxed, clinics can consider corresponding changes to their practices. There is no 'one-size-fits-all' approach, as numerous factors are involved in deciding when and how to relax measures such as allowing clients into clinics. Clinic-specific considerations include:



- Vaccine coverage (full vaccination with two doses) in the area
- Vaccine coverage in clinic personnel
- Variant of concern (VOC) dynamics in the area
- Ability to optimize infection control practices and ventilation, as discussed below
- Risk aversion
- Risk status of people in the clinic (e.g. presence of staff who are at increased risk of severe disease or that cannot be vaccinated for medical reasons)
- Ability to use hybrid measures to reduce overall numbers of people that enter the clinic

More details are provided in respective sections of this document, but an overview of key considerations is provided below.

Limiting Numbers

Minimizing the number of people in the clinic at any given time and overall will reduce the risk of an infected person entering the clinic, as will reducing the risk of close contact between people and facilitate distancing and other control measures. A gradual re-introduction of in-clinic visits can be done by maintaining some degree of curbside care delivery, telemedicine and hybrid appointments. In-clinic visits can be focused on situations where there are client communication or patient care benefits to allowing an owner to enter the building.

Limiting in-clinic visits to a single owner, whenever possible, can also reduce the person-burden on the clinic.

Outdoor Activities

When possible, based on patient and pet owner issues, clinical needs, weather and availability of secure space, outdoor activities should be encouraged. This could include patient care and clinical operations (e.g. telephone calls, breaks, meetings). Issues of patient containment, pet owner comfort, staff comfort, client confidentiality and ability to provide equivalent care must be considered when choosing outdoor activities, but shifting some activities outdoors reduces the pressure within clinics. Pet owners can also be encouraged to wait outside after checking in, while their pet is being examined without them or any other time where their presence is not actively required, to avoid congestion in the waiting area.

Clinic Occupancy Limits

As public health measures vary over time, business capacity limits change. Veterinary clinics should determine their capacity so they can follow any current capacity restrictions that are in place. It is important to remember that differences in clinic design and flow impact risk, and maximum numeric capacity may be more than is reasonable for clinics (e.g. clinics with small reception areas and limited examination rooms, so clients are concentrated in a small space).



When in force, the main expectation from the government is that businesses, including veterinary practices, minimize the number of people in a facility at any given time to reduce further spread of COVID-19. Practice owners continue to be responsible for ensuring the health and safety of their staff, clients and patients while mitigating all risks of exposure to COVID-19. Even though allowing clients into the clinic may be permitted under Washington's reopening plan, **clinics may decide for themselves when they will feel comfortable allowing clients to enter, while ensuring state standards are met.**

Maximizing Distancing

Maximizing distancing between people, both staff-staff and staff-client interactions, is still important to maintain. This requires consideration of person flow within the clinic, how client visits are handled (e.g. are exam rooms used for appointments or do clients wait in an exam room while the patient is examined by clinical staff in a separate area). While 6-foot distancing was focused on early in the pandemic, it is clear that this is not an absolute limit. Risk decreases with greater distance but is still present with separation greater than 6 feet. Therefore, it is not an issue of distancing OR use of other measures (e.g. mask, ventilation), it is a matter of using distancing as much as possible ALONG with those measures.

Limit Contact Times

Risk increases with time of contact. There is no specific cut off, despite the 15-minute guidance that was used early in the pandemic. Short contacts can result in transmission of SARS-CoV-2, especially some VOCs. Contact times can be reduced by hybrid appointments (see details below), focus on efficient delivery of care and improving flow within the clinic to avoid personnel or client bottlenecks.

Ventilation

Ventilation is increasingly being recognized as a critical and often overlooked control too. Clinics should optimize ventilation, as is discussed in more detail below. Increasing airflow, the HVAC systems, opening windows, opening doors within the clinic and using fans is likely a critical protective factor.

Physical Barriers

Plexiglass barriers are commonly used in retail settings and are probably useful in most circumstances. However, the use of barriers must be considered in the context of ventilation. There is evidence that plexiglass barriers could increase the risk in some situations (e.g. classrooms), likely because they reduce ventilation and allow for accumulation of infectious clouds. Plexiglass barriers at reception desks probably provide useful protection for clinic staff from transient client contacts. However, if there are multiple personnel in the same area



behind the barrier(s), their risk could be heightened if ventilation in their area is reduced. Similarly, if barriers impact effective ventilation of the client area, risk to clients and personnel that enter that area could be enhanced. Overall, plexiglass barriers are probably useful in most situations but are best when ventilation is still optimized and where no more than one person works behind the barriered area.

Vaccination

Effective vaccination is a core component of COVID-19 control. Current VOCs are more transmissible and single doses of vaccine provide suboptimal protection. However, two doses of current vaccines offer excellent protection. Vaccination status, including ensuring two doses have been obtained, when possible, is a key component of clinic risk and control. For more detailed information on vaccinations, please see page 8.

Staff and Client Screening

As has been prominent since the start of the pandemic, syndromic screening of all people entering the clinic will remain a core control measure. Staff or clients with clinical signs suggestive of COVID-19 should not enter the clinic. This can be complicated during allergy season, but a cautious approach should be taken, as in-clinic exposures have occurred when staff dismissed signs as worsening of allergies.

In Room Air Filtering

HEPA filtration can reduce the amount of SARS-CoV-2 in the air and be a useful adjunct to ventilation. It is of particular use when ventilation is suboptimal and cannot be improved, as well as other higher risk situations (e.g. closed spaces, small spaces, crowded environments). Filtration should not be used in lieu of other measures but can be considered when those higher risk environments and situations cannot be avoided.

Ultraviolet-C (UV-C) light can inactivate SARS-CoV-2 and portable in-room systems can also be considered. However, less is known about the efficacy of these products and there is probably significant variation in effectiveness between commercial products.

Masks and Social Distancing Requirements

The CDC is in the process of updating its guidelines for veterinary facilities and has issued the following interim direction regarding wearing masks:

Veterinary clinics should follow the masking guidance for the general public. While veterinarians are considered clinicians, the settings in which they work are not used to treat humans with suspected or confirmed COVID-19, and instances of animal-to-human transmission appear to be very rare. Veterinary clinics should consider local transmission and vaccination rates when creating clinic policies for PPE use and interactions with clients.



In absence of clear state guidance, the WSVMA advises veterinary clinics follow the interim guidelines.

The Washington Dept. of Labor & Industries has issued new mask and distancing requirements to help employers adopt workplace policies.

As of June 30, 2021, businesses in Washington state are able to open at full capacity and have fewer requirements to follow to protect employees from COVID-19.

However, both OSHA and L&I continue to recognize COVID-19 as a workplace hazard for unvaccinated individuals. Employers have an obligation to provide a safe and healthy workplace and assess the level of hazard to determine if additional steps should be taken to protect workers who are not fully vaccinated. Updated [rules and guidance](#) detail the changes employers need to know.

- Employers have the right to require masks, regardless of employee vaccination status, and to allow their employees to wear masks if they choose. Unvaccinated employees or those who have no proof of vaccination must wear masks and social distance.
- Before ending mask and social distance requirements, employers must verify that employees have been fully vaccinated, either by having the worker show proof of vaccination or attesting to their vaccine status.
- Employers must provide cloth face coverings or a more protective mask to employees, free of charge, when use of a mask is required.
- Employees have the right to wear a mask or other protective equipment, regardless of their vaccination status, as long as it doesn't create safety issues.
- Employers cannot fire or discriminate against an employee who is at high risk of contracting COVID-19 and is seeking accommodation that protects them from COVID-19 exposure.

Employers are encouraged to check with their local public health agency, which may have more stringent requirements or recommendations. For more information, download WA Dept. of L&I's [Key COVID-19 Updates for Fully Vaccinated Workers](#).

Vaccinations

Multiple effective vaccines against COVID-19 are now available, with access to vaccinations gradually being opened up in accordance with Washington's vaccine distribution plan.

Washington's vaccination requirements for employers



Fully vaccinated employees do not have to wear a mask or socially distance at work, unless their employer or local public health agency still requires it.

- Employers must be able to demonstrate they have verified vaccination status for workers who are not masked or physically distanced. L&I's guidance on vaccination verification methods are from the perspective of the worker safety and health laws. There may be other laws that apply like the Americans with Disabilities Act (ADA) that employers should consider when implementing the verification process. Verification methods may include:
 - Creating a log of workers who have verified they've been vaccinated and the date of verification
 - Checking vaccination status each day as workers enter a jobsite
 - Other methods demonstrating an employer has verified worker vaccination status may also meet the standard.
- When verifying an employee's vaccine status, acceptable documentation includes a CDC vaccination card, a photo of the card, documentation from a health care provider, a signed attestation from the worker, or documentation from the state immunization information system.
- Evidence of the verification system must be available to L&I upon request.
- Employers do not need to save actual copies of employee vaccination cards.

For more information, read L&I's COVID-19 Workplace Safety Requirements at www.Lni.wa.gov/go/F414-164-000 and www.Lni.wa.gov/go/F414-169-000. Additionally, view the Governor's Proclamation on Face Coverings [here](#).

Can a Mandatory Staff Vaccination Policy Be Used?

A vaccination policy is advisable given an employer's obligation to take all reasonable precautions to protect the health and safety of their employees. However, the content of each policy will vary depending on the nature of the workplace.

The requirement of a mandatory vaccination policy is a difficult question as there are many competing interests. On one hand, there is an obligation for employers to provide and maintain a safe work environment. On the other hand, employees may be entitled to refuse compulsory vaccinations on a number of grounds including, but not limited to, the:

- nature of the workplace;
- lack of a contractual obligation;
- privacy and the obligation to disclose certain medical information;
- concern about vaccine reactions;
- discrimination pursuant to human rights legislation, including sex (including those who are pregnant), a documented disability, and a religious belief, creed, or conscience objection



- Civil and human rights laws

It's best to consult with an attorney or HR expert for guidance in the development of any employee vaccination policy.

Unfortunately, there have been cases of discrimination against those with differing views of the pandemic and of vaccinations. Practice owners and managers should be mindful of any pandemic-related harassment of an employee by other staff. It's the responsibility of the employer to ensure a safe and healthy (physical and mental) workplace. If you haven't done so already, ensure that you implement a workplace violence and harassment policy.

Do Clients Still Have to be Masked and/or Practice Social Distancing if They are Vaccinated?

Vaccination of clients will significantly reduce the risks they pose to clinic personnel, but risks will not be eliminated. As of June 30, in Washington State, counties and businesses have the right to set their own rules and regulations on face coverings to respond to the level of transmission in the community, although that could change. If a client enters the clinic, they can be required to respect the rules.

What Happens if a Client Doesn't Want to Wear a Mask Because They are Vaccinated?

Exemptions to legally mandated mask use do not include vaccination. It is the duty of the workplace to ensure compliance with mask use requirements.

Time Off Work for At-Risk Employees

One of the keys to protecting a practice from a COVID-19 outbreak is to ensure that any employees who have COVID-19 symptoms or who have had close contact with someone who has tested positive for COVID-19 stay away from the practice. The best way to encourage employees to stay home when advisable is to limit the cost to the employee in terms of lost wages, when they are absent from work.

Many practices are also choosing to provide paid sick leave for employees exhibiting COVID symptoms, or who have had close contact with someone who has tested positive for COVID-19. Practices are encouraged to review their current sick leave policy to determine how they will handle employees who may develop COVID-19 symptoms or who have close contact with someone who has tested positive for COVID-19.

Employers can require employees to leave work if the employer believes an employee has been exposed to COVID-19. However, employers cannot require employees to use Washington's Paid



Sick Leave to cover this absence. It's a worker's choice when to use their paid sick leave. For more information, visit [Paid Sick Leave and Coronavirus \(COVID-19\) Common Questions](#).

General Concepts for Veterinary Clinics during the COVID-19 Pandemic

Even though Gov. Inslee has relaxed many of the covid requirements, it's important to still follow best practices in order to protect workers. The following are precautions, some new and some previously published, that should be considered and employed for safety. Additionally, the chance remains that restrictions could be put back into place at any time, and being able to respond quickly will ensure a smooth transition and less stress for all involved.

COVID-19 rates are currently high in many areas where there are a large number of unvaccinated people, and risk of subsequent waves of infection will persist into the future. It's important that clinics pay close attention to local infection rates, vaccination status of the population, and VOC dynamics in the area. Clinics should also pay attention to any new requirements from the State and/or their local health jurisdictions and be ready to enact them whenever it's required.

Other considerations include

- *The extent to which the layout of the practice and COVID-19-related enhancements (i.e. plexiglass barriers, six-foot decals on the floor, etc.) allow for appropriate social distancing;*
- *Practice staff's comfort level with having clients in the clinic practice; and*
- *Whether effective alternative approaches are available.*

Viral transmission mainly occurs through close contact and droplet transmission. Risks are greatest in three situations, the '3 Cs'.

- Closed spaces
- Crowded situations
- Close contact settings

Risks are enhanced when droplet generating procedures are common, including talking, coughing, sneezing and yelling, and with longer contact times. These situations are very common in normal veterinary clinics, highlighting the potential risk of transmission and need for preventive measures. Time is also an important component of this. However, there is no definite 'no risk' measure for either time or distance. **While prolonged (>15 minute) contact within 6 feet is higher risk, short term contact over longer distances continues to pose risk, particularly with emerging variants of concern (VOCs). Maintaining 6 foot distancing is a**



reasonable goal but it does not eliminate risk or the need for other measures such as mask use.

Measures to reduce risk include:

- Limiting the number of people that enter the clinic (maximizing care that does not involve the client entering the clinic)
- Limiting the number of people that are in the clinic at any given time
- Limiting contact between animal owners and clinic personnel or other owners
- Minimizing the duration of contact between animal owners and clinic personnel
- Minimizing or avoiding contact in closed spaces
- Maximizing the use of physical barriers (e.g., plexiglass shields)
- Maximizing the use of personal protective equipment (e.g., masks)
- Physical distancing
- Cleaning and disinfection
- General infection prevention and control
- Evaluating clinic personnel interactions (e.g., 'clinic bubbles')
- Maximizing ventilation

SARS-Cov-2 Infection in Animals

Thorough discussion of SARS-CoV-2 infection in animals is beyond the scope of this document; however, a few important points must be considered.

- Human-pet transmission may be relatively common in households.
- Most infected animals likely have clinically inapparent infections.
- Cats can develop a range of (usually mild) respiratory tract or GI manifestations. Dogs seem to be resistant to clinical disease but may have mild disease (e.g., transient anorexia and depression).
- Cat-cat transmission can occur, so cat-human transmission should be considered possible.
- Dogs are less effective hosts and, when infected, likely pose a much lower transmission risk than cats.
- Ferrets are likely quite susceptible to infection, and presumably pose some risk of zoonotic transmission.
- Common livestock species appear to be minimally susceptible or non-susceptible.
- Susceptibility of horses is unclear.
- Mink are of particular concern because of their susceptibility, ability to transmit the virus back to people and the potential for mutation of the virus with widespread transmission on farms.
- Wildlife susceptibility is variable and inadequately understood. Most urban wildlife species seem to have limited susceptibility but some (e.g., deer mice, deer) can be infected and transmit the virus.



Allowing Clients in the Practice

Limiting the number of people in the clinic is a key control strategy and will remain so until the COVID-19 pandemic is well controlled. There is a need to balance patient care, client satisfaction, clinic efficiency and COVID-19 control, something that is a challenge. Until now, keeping clients out of the clinic has been the default approach. However, as COVID-19 case numbers in many areas of the state remain very low, practices may deem it appropriate to allow clients in the clinic, depending on the purpose of the visit and other factors such as inclement weather and ability to safely transfer the patient in a curbside manner. Ideally, the default should continue to be to use curbside drop-off, with client access to the clinic considered on an as-needed basis. This will reduce the risk through reducing in-clinic contacts and is also critical for other control measures such as direct admission to exam rooms (which require fewer people in the clinic if normal caseloads are maintained).

A common question is, ‘how do I know when it is safe to allow clients into clinic?’. There is no definitive answer to that question. “Safe” is subjective and a moving target and gradations of risk will be present. The more prolonged and closer the contact, the greater the risk. Having a client in the clinic is riskier than having them outside. The epidemiology of disease in the area will impact risk, and that is a dynamic situation. While the odds of any client being infectious are low, the risk is not zero, and measures should be in place to reduce the risk to clinic personnel and other clients.

The decision concerning whether to allow clients in the clinic for patient visits should be informed by:

- The epidemiology of COVID-19 in the local area (see your local public health jurisdiction website for the current case count);
- The extent to which the layout of the practice and COVID-19-related enhancements (i.e. plexiglass barriers, six-foot decals on the floor, etc.) allow for appropriate social distancing;
- Practice staff’s comfort level with having clients in the clinic practice; and
- Whether effective alternative approaches are available.

If the practice decides to allow clients in the clinic for patient visits, it may choose not to do so for all visits. The following limitations may be considered:

- Restricting the number of clients attending the appointment with an animal. Attendance of a single owner should be encouraged (or mandated) for routine visits.
- Limiting client visits to instances where it is necessary for the owner to make a patient care decision (e.g. clients would not be allowed in the practice for routine wellness exams).
- Limiting hospital visits only to compassionate situations (e.g. pre-euthanasia).



Whenever a client is allowed in the practice:

- Ensure the client has self-screened and has no signs or symptoms suggestive of COVID-19.
- Require the client to wear a mask.
- Upon entering the practice, hand sanitization stations need to be available for client use

In-clinic client visits should still be discouraged for product pick-up. If clients are allowed into the clinic to pick up product, clients should be required to call upon arrival to ensure the product is readily available and that there is no reception congestion. If there will be a delay in preparing the product or if the reception area is at capacity, clients should be instructed to wait outside until called, so that the time in the clinic and number of people in the clinic can be limited.

Identification of High-Risk Clients

Querying the health status of animal owners prior to them attending a veterinary practice should remain a standard practice. While this does not assure that encountered individuals are not infected, because of asymptomatic, paucisymptomatic (very mild disease) and pre-symptomatic infections (shedding of SARS-CoV-2 prior to the onset of disease), it will identify a subset of higher risk situations. This will enable decisions regarding whether the appointment should be rescheduled or whether additional protective measures and approaches should be used. As the epidemiology of disease evolves over time and as other activities such as travel restart, the specific approach to querying health status may similarly evolve. The key aspect is having a structured approach to query the risk status of any person that will enter the clinic and every pet's household contacts. Currently, this focuses on whether people have signs and symptoms potentially attributable to COVID-19.

Monitoring Temperatures

Routine testing of body temperature through distanced methods (e.g. infrared forehead temperature sensor) is used in some facilities; however, fever is a poorly sensitive indicator of COVID-19. Further, hot or cold environmental temperatures can influence skin surface temperature screening. Temperature screening can be considered but does not replace any other precautions. Lack of fever cannot be taken as an indication of lack of risk of infection.

Client Communication

To reduce the likelihood that a client becomes upset because they cannot enter the practice or because they have a different experience in-clinic:



- Inform all clients about the practice’s policy regarding in-clinic visits by broadcast email or text message, if possible.
- Let individual clients know whether they will be allowed in the practice prior to their arrival. This should be done when the appointment is confirmed and when appointment reminders are provided, whether by phone, email or text message.
- If clients are allowed in the clinic, inform them about any measures they must take (e.g. wear a mask, complete a self-screening assessment).

Appointment Only

Veterinary practices must deliver care that is congruent with the community COVID-19 assessment. Predictability is important to maintain flow and distancing. People that arrive without an appointment (for veterinary care, purchases or other reasons) can disrupt measures taken to minimize the number of people in the clinic and structured flow. This does not mean everything must be scheduled well in advance. Emergency patient care and spontaneous visits (e.g. last minute food purchases) can be facilitated; however, having clients call first allows staff to be prepared and to alter client arrival times, as needed (e.g. “Our reception area is at capacity now, but if you arrive in 15 minutes you can pick up your pet’s food”).

Clinic Entrance

- Signage should be placed indicating relevant practices (e.g. when/how to enter, hand hygiene requirement, mask requirement, physical distancing requirements, indication to not enter the building if sick, telephone/text information to contact clinic personnel from outside).
- A hand hygiene station should be positioned at the door.
- If use of a mask by clients entering the building is required (as is recommended), masks can be made available for clients that arrive without one. This could include disposable non-medical masks or re-usable cloth masks. If re-usable masks are provided, clean masks should be in individual sealed bags to indicate they are clean and prevent cross-contamination. A receptacle for used cloth masks for re-processing should be placed at the exit. If disposable masks are used, a garbage container should be placed at, or just outside, the door.
- Controlled entrance (e.g. locked door with buzzer access controlled by reception) should be considered to control numbers of people in the reception area.

Reception

- Reception areas should be viewed as processing areas, not ‘waiting rooms’. Congregation of people in reception areas should be minimized.
- Maximum occupancy of the reception area should be determined based on the realistic likelihood of people maintaining a 6-foot distance between each other and clinic personnel.



- Room use and layout should be reviewed, including moving seating areas to facilitate 6-foot distancing between clients, and between clients and staff.
- Consideration should be given to installing clear partitions in reception areas to protect front office staff.
- Floor signage should be considered to maintain distancing while waiting in reception areas. This could consist of signs (e.g. footprints) indicating where to stand while waiting.
- Room design should be evaluated and, if needed, altered, to facilitate client flow, with a goal of maintaining a consistent, one-way flow, preventing unnecessary contact of client with staff and other clients. This can include creating central barriers or displays to disrupt open concept areas, use of crowd control ropes/belts to direct flow.
- Magazines, toys, and other items that might be handled by multiple people should be removed.
- Mandatory mask use by clients is recommended. Personnel must facilitate this by requiring that clients wear masks properly in the clinic.
- The number of staff working at reception should be minimized. If more than one person is required, 6-foot distancing should be arranged.

Examination Rooms

High risk situations for SARS-CoV-2 transmission involve spending time with people in close spaces, with talking or other activities that produce droplets (e.g. yelling, coughing). Examination rooms should be considered high risk areas, because of the typically small space, inability to maintain 6-foot distancing, potential for owners to get close to personnel (e.g. stepping in to help restrain an animal) and talking that inevitably occurs. If clients are allowed in the clinic with their pet, time spent with clinic personnel and owners in examination rooms should be minimized. Examination rooms are ideally client waiting rooms, whereby the client comes in with the animal, most discussion has already occurred by phone or electronically, the pet is taken to a treatment area for any procedures, and the pet is then returned to the client. If the pet and client must remain together, clients should wear a mask and be instructed to stay back. Providing a chair or indicating a standing area through floor signage should be considered. Clinic personnel should be available for restraint so that clients do not have (or feel the need) to approach personnel during patient care.

Streamlining Owner/Patient Processing

Activities that occur in reception and examination rooms should be reviewed to identify those that can be done remotely. Some, such as patient registration, can be done prior to the owner's arrival, limiting the need for the owner to enter the clinic or the time that they must spend in the clinic. Other considerations might include billing and obtaining informed consent, which can potentially be done before or after the visit.



The overall goal should be to minimize any time spent in the clinic not actively engaged in a necessary process. This can improve clinic efficiency and owner satisfaction, while minimizing the number of people in the clinic. This can improve overall clinic function and optimize the ability to maintain normal patient caseload numbers by avoiding bottleneck situations where delays occur because reception areas are at maximum occupancy or examination rooms are occupied by waiting clients.

Alternate Service Delivery

Methods to reduce the need for in-person contact with clients and animals will need to be emphasized for the foreseeable future. As restrictions on in-clinic activities decrease, it will still be important to implement measures to reduce the need for in-clinic contact while maintaining full veterinary services.

Telemedicine

Having an animal visit the clinic or a veterinarian visit the farm or household will be necessary in many situations. However, telemedicine should be approached as the default method to deal with a patient or farm question. A triage approach should be used, whereby telemedicine options are considered first, and in-person visits are used when telemedicine is not appropriate. Veterinarians should remain apprised of WA Veterinary Board of Governor's guidance on telemedicine.

As an alternative to allowing clients in the building, practices may offer clients the ability to view and participate in the patient visit while they wait in their car via Facetime, Skype or a dedicated telemedicine application.

Hybrid Appointments

There are many situations where telemedicine cannot be used as the sole approach but could still be an effective means of limiting client contact during an appointment. For example, a new puppy appointment could be first conducted via telemedicine, to obtain the history and discuss various issues. This could be followed by a shorter clinic visit for physical examination and vaccination. Since the discussion was already had, the animal's visit could effectively be performed without the owner present in the clinic.

Food/Medication Delivery

Measures to reduce the need for animal owners to come to veterinary practices are important, irrespective of measures that are used to minimize contacts during those visits. Methods to ship or deliver food, medications and other supplies should be used, when possible. This is particularly important for clients at increased risk of being infectious and clients at increased risk of complications or severe disease, should they be exposed.



Food/Medication Pickup

As per physical distancing recommendations, when clients must visit a clinic to pick up food, medication or other supplies, approaches to prevent or limit contact should be used. Curbside pickup with pre-order and pre-payment has been widely adopted by many businesses and can be easily performed in veterinary medicine. Contact-free procedures (e.g. placing the items in the client's trunk while they remain in the vehicle, placing items on a table for clients to pick up) are feasible in most situations.

Practice Visitors

A visitor policy should be created for each clinic. If possible, visits should be done virtually. However, some visits may be important for clinic function (e.g. repairs, continuing education) or for the broader profession (e.g. veterinary and technician student placements, pharmaceutical reps). However, there is always some inherent risk associated with entrance of any new person.

Considerations for short term visits include:

- No drop-in visits should be allowed. Visits should be by appointment only.
- The time and location of the visit should be clearly described.
- Visitors should self-screen for signs and symptoms of COVID-19 on the day of visit.
- Visitors should be admitted directly to the location of the visit and should avoid taking up space in reception areas.
- PPE requirements should be determined. Mask use by visitors is recommended.
- Visits should be structured so that a 6-foot distance is maintained.
- A visitor log should be maintained for contact tracing purposes. The log should include visitor name, contact information, date and time of their visit and purpose of their visit.

All the above cannot apply for longer term visits (e.g. student placements). Long term visitors likely pose increased risk because of the longer time in the clinic and closer contact with clinic personnel. More scrutiny can therefore be applied to their risk and health status. People from areas with increased rates of COVID-19, people that have not practiced responsible social distancing and people that have recently travelled may pose higher risks. Clinic practices can limit the impact of those, such as through prioritizing people from the same area, interviewing to develop confidence in the person's social distancing efforts and to outline clinic requirements. If longer term visitors are coming from higher risk situations, a 14-day period away from the clinic after arrival could be considered.



General Infection Prevention and Control

Ensuring Physical Distancing

Social/physical distancing is critical and is likely the most important and effective approach to COVID-19 control. The overall goal of social distancing is to reduce human-to-human contact, both by reducing the incidence of contacts and reducing the closeness and duration of any required contacts. This includes contacts with clients, farm personnel, delivery personnel, clinic personnel and anyone else that might be encountered. Specific application can vary in different veterinary situations, but the same principle remains; use of basic measures to maintain separation of 6-feet from others. With that, and droplet reducing measures such as cough etiquette, transmission risks can presumably be markedly reduced.

Distancing of clinic personnel within the clinic must be maintained. This can include:

- Emphasizing the importance of 6-foot distancing whenever feasible.
- Advanced planning and provisioning for procedures that will require close contact (e.g. blood collection, catheter placement) to minimize the contact time.
- Efficient performing of procedures that require people to be in close contact.
- Reviewing scheduling practices to avoid waiting area congestion.
- Reviewing clinic layout and operations to facilitate separation (e.g. seating arrangement in reception areas, offices, meeting/break rooms, separation of procedure or treatment areas in common treatment rooms).
- Maintaining some use of curbside drop off and pickup (animals and supplies) to facilitate limiting the number of people in the clinic.

An additional consideration is distancing from other people that may visit the clinic, such as couriers. A clinic-based approach to receipt of goods should be in place to minimize contact and protect staff. This can include having contactless deliveries made by depositing goods inside a door with no one around or dropping items off outside the clinic. Signatures should be avoided as much as possible, and masks worn for any required contact. Good hand hygiene practices should be used after contact with items handled by external individuals.

Distancing from animal owners is critical, as owners pose the greatest risk of SARS-CoV-2 exposure. Measures to reduce or prevent owners from entering clinics will continue to be a key control measure, and many of those are discussed above. Additional or related approaches include:

- Contactless patient drop-off and return through leaving carriers or attaching leashes to secure hooks in unoccupied entrances.
- Documentation of verbal consent rather than requiring signatures.
- Using contactless electronic payment whenever possible.



- Altering owner and personnel flow within the clinic
- Altering waiting room layout (if people are allowed to wait), such as reducing and spacing seating

Hand Hygiene

Hand hygiene should be encouraged for personnel, clients, and visitors. A key aspect of this is ensuring that hand hygiene supplies are present throughout the clinic, including at the entrance and any areas where staff and owners may mix. Alcohol based hand sanitizers and hand washing are equally effective; however, hand sanitizers are easier to add throughout the clinic. Hand sanitizers should be at least 70% alcohol.

Personal Protective Equipment

Proper use of PPE is an important aspect of COVID-19 control and will remain so for some time. Personal protective equipment is used for two main purposes - to protect the user, and to protect others from the user.

The goal for PPE use (protection of, or protection from, the user) is critical to consider when deciding what PPE to require and when to require it. While the field efficacy of routine cloth masks for prevention of COVID-19 transmission is unclear, routine mask use is increasingly common and is a reasonable consideration in veterinary situations. These are used to reduce the spread of droplets from the wearer. Therefore, they are a population protection measure, and for effective use within a population (e.g. veterinary clinic, on farm), they must be worn by all personnel.

Routine use of masks in clinics, in vehicles and on farms, even when outdoors, is strongly recommended, when maintaining a 6-foot distance from others is not possible or predictable. Masks will reduce the risk that an unknown infected person will infect others. In a clinic situation, where contacts might be unpredictable, it is recommended that cloth/non-surgical masks be worn by all clients that are in the clinic, and by all personnel apart from times when they can be assured that there will be no close (<2m) contact with another person (e.g. alone in an office). Face shields offer some protection from a user's droplets, but less than what is provided by a mask. Face shields should be reserved as the sole PPE item for people that cannot wear a mask for health reasons.

While cloth/non-medical masks are mainly intended to protect from the user's droplets, they offer some degree of personal protection. Face shield or goggles offer an additional level of personal protection and can be approached as an elective additional tool for people at increased risk of severe disease or that are particularly concerned about exposure. Mandatory use of mask or goggles can be considered for situations where close contact is required, especially if contact might be prolonged and associated with higher risk activities (e.g. talking, struggling). Examples may include placing an intravenous catheter in a patient, where the



person placing the catheter and the person restraining may be in very close contact and be talking to one another, creating aerosols with limited distancing options. However, here is the potential for struggling and talking.

N95 masks or equivalent respirators are designed to protect the user. However, they are uncommonly indicated in veterinary practice. The limited supply, importance for human healthcare and need to conserve them for high risk veterinary situations (see Appendix A) mean that routine use of N95 masks should be avoided.

There are no standard approaches to routine PPE use, and clinics should develop their own specific practices. Suggested approaches are outlined in Appendix B.

Animals as Fomites

While there was concern about the role of surfaces in transmission of SARS-CoV-2 early in the pandemic, surfaces and objects appear to play little role in the epidemiology of COVID-19. While there is the potential that an actively infected person could deposit viable virus on an animal's haircoat, persistence of viable virus on the haircoat is expected to be of short duration. Hand hygiene, glove use and other routine infection control practices would reduce the risk. Screening owners for higher risk situations (households with active or suspected COVID-19 in people) and use of enhanced barriers in those situations to reduce the risk of exposure from an infected animal would be equally effective at mitigating any risk from haircoat contamination. While not contraindicated in most situations, wiping an animal's haircoat with an animal-safe biocide is not recommended as a routine practice.

Facility Management

There are a variety of ways that practices can reduce the likelihood of disease transmission through effective facility management.

Clinic Flow and Barriers

Overlapping flow of owners and clinically personnel is not typically a major consideration in clinic design. As a result, there are often various common contact points of bottlenecks that increase client-staff and client-client contacts. While major infrastructure changes are impractical in most facilities, there are potential options to modify movement and facilitate distancing.

Clinic layout should be reviewed with respect to clinic flow. Ideally, clients enter and flow through the clinic in a specific manner, never having unintended exposure to clinic personnel or crossing paths with other clients. This can be facilitated through means such as one-way flow through reception areas or having clients exit through a side/back door. Completing all visit activities, including dispensing and billing, while the client is in the examination room should be



considered to facilitate flow, minimize reception area congestion and facilitate clear planning of reception area occupancy (e.g. avoiding unexpected return of clients to the reception area to wait for something).

Physical barriers can be used to reduce droplet transmission (e.g. plexiglass shields), enforce distancing (e.g. barrier preventing clients from getting close to reception desk personnel) or modify flow (e.g. re-arranging furniture, use of rope barriers to modulate traffic flow). Signage can be used to designate standing and waiting areas, and the maintain distancing in lines or from stationary personnel (e.g. reception). Clinic procedures such as modifying where clients are greeted, how they are flowed through the clinic and where they wait can be designed to minimize contacts. There are no standard specific approaches because of the marked variation in clinic design but virtually any clinic can make physical or procedural alterations to improve flow and contacts.

Cleaning and Disinfection

Routine cleaning and disinfection practices are adequate for inactivation of SARS-CoV-2. Any routine disinfection will be effective, but those with shorter contact times and less inhibition by organic debris are preferred. The main issue pertaining to disinfection is ensuring that it is done properly.

In addition to routine clinic cleaning and disinfection, increased attention should be focused on common human hand contact surfaces, particularly those touched by many different people (e.g. areas that clinic personnel, owners and visitors such as couriers may all touch).

There is no standard approach for the frequency of disinfection, but a general concept is that more commonly touched sites should be disinfected more frequently. Disinfection of high-touch areas multiple times per day is reasonable.

Disinfection duties should be specifically assigned to facilitate compliance. Measures to record disinfection (e.g. wall sign-off sheet) of highest risk areas should be considered, as are commonplace in areas like public restrooms. They also provide an indication to clients of the measures that are being taken to protect them.

Commercial systems that can disinfect empty rooms are available and are being aggressively marketed in some areas. These systems can use disinfectant aerosols or vapors, or emit UV-C light. These will effectively disinfect areas that are reached (e.g. UV-C cannot kill contaminants that are shaded from the light source). They can be effective environmental disinfection tools but for routine veterinary clinic use probably offer limited benefits over good routine cleaning and disinfection and UV-C is potentially harmful if not used properly. They are reasonable to consider but should be approached as a supplemental tool that is used periodically (e.g. end of day, weekly), not as a replacement for routine practices. Currently, CDC only recommends chemical disinfectants.



Ventilation and Air Management

As discussed above, risks are highest within closed spaces. This is due in large part to reduced ventilation, which can reduce dispersion of infectious droplet clouds and facilitate accumulation of aerosols (which may become a concern with prolonged (e.g. >15 minute) contact in a poorly ventilated area. Ventilation standards are not clear, but it has been suggested that the risk of transmission is low if ventilation can be maintained at 8L/person/second, while risk is high if flow is <3L/person/second. Maximizing flow rates while minimizing use of recirculated air should be the goal. This can be challenging with some ventilation systems and reducing recirculated air can be particularly difficult in some climates. However, the concept of 'more is better' clearly applies to airflow.

The role of air treatment systems is unclear. There might be some beneficial effect of portable, in room HEPA filters that can remove infectious particles in the vicinity of where they are released. There is no evidence that in duct systems (e.g. UV light, HEPA filters) are necessary. Similarly, systems that can be used in rooms after people vacate (e.g. UV-C) are not likely effective over routine surface cleaning and disinfection and infectious particles would be expected to settle on surfaces shortly after people left. Therefore, surface disinfection rather than airborne disinfection, is the key.

CO2 Monitoring

While airflow monitoring is impractical, CO2 monitoring is a useful proxy. CO2 levels reflect the presence of individuals (human or animal) in an airspace and dispersion of the CO2 that they produce. Low-cost CO2 monitors can be obtained to evaluate ventilation in a clinic. Outdoor air is typically ~400 ppm. Indoor air in a highly ventilated space can have similar CO2 levels; however, well ventilated areas may have moderately higher CO2 levels (e.g., 600 ppm). Greater than 1000ppm CO2 indicates poor ventilation. The goal should be to minimize CO2 levels, within reason, maintaining all areas well under 1000 ppm (ideally <600 ppm). CO2 monitoring can identify the current status of a facility, identify higher risk areas within the facility that need specific attention and evaluate the impact of changes (e.g., opening doors or windows, use of fans, changing HVAC settings).

Air Filtering and Treatment

The role of air treatment systems is unclear; however, they can likely reduce the risk in certain situations. Reduction in viable aerosolized virus can be achieved by filtering (removing virus) or treating (killing virus). In room HEPA filters can remove infectious particles in the vicinity of where they are released. These may be particularly useful in areas where ventilation is poor and cannot be improved and where human traffic is higher (e.g. exam rooms, treatment areas). If clients are allowed in the clinic, they can also be of particular use in areas where clients are present (including reception areas). Portable, in room UVC systems may offer similar benefits but are less studied and probably subject to more substantial



variation between products. Above room UV- C or HEPA systems (mounted within the room, above head level) may also be useful.

There is no evidence that in duct systems (e.g., UV light, HEPA filters) are necessary. Similarly, systems that can be used in rooms after people vacate (e.g., UV-C) are not likely effective over routine surface cleaning and disinfection, and active in-room filters.

Staff Management

Because of the prolonged close contact that occurs, inter-staff transmission of SARS-CoV-2 is a significant concern, and numerous clinic outbreaks of COVID-19 have been encountered. In human healthcare, it has been suggested that more occupational infections of healthcare workers occurred in common (e.g. lounge, office) areas than from patient care, highlighting the potential for transmission between personnel, particularly when preventive measures are relaxed in non-patient-care areas. This supports the need for continued measures to distance and protect from other clinic personnel, not just clients. Physical distancing is a key component. When full distancing is not possible, steps can be taken to minimize the frequency and duration of close contacts. Routine use of non-medical masks by staff is encouraged to reduce inter-clinic transmission.

There are a variety of ways that staffing can be reorganized to reduce the likelihood of disease transmission.

Minimizing Clinic Staffing

Reducing the number of people in the clinic at any time facilitates physical distancing by reducing the number of potential contacts and making distancing and flow measures more practical. Where possible, personnel should work at home. This could include telemedicine, time spent doing client follow-up calls and various practice management activities.

Cohorting

An individual who has been in close, prolonged contact with an infected person may be required to self-isolate for 14 days. When feasible, measures should be taken to reduce the number of different contacts within veterinary practices. This is not always possible but can be performed in some clinics. Examples of this would include operating separate shifts with specific personnel, designating specific work groups (e.g. constant pairing of veterinarian and technician) or other approaches to try to reduce exposure of all personnel in a clinic should one person be infected. This may be challenging over the long term from a practical perspective. Cohorting should be approached as an ideal, with the goal to maintain as much group separation as possible. In situations where cohorting is not possible, the use of other measures (e.g. PPE) becomes even more important.



Clinic Bubbles

Considering all members of a clinic as a 'clinic bubble' has been used in some facilities. This typically involves decreased use (not elimination) of preventive measures such as masking and distancing. This can be a consideration in areas where community transmission is low and where clinic personnel are low risk for exposure outside the clinic. However, this approach involves risk because one infected staff member could rapidly expose the rest of the clinic to SARS-CoV-2.

Community transmission rates, the number of people in the bubble, the number of other contacts each bubble member has, the risk status of out-of-clinic contacts and out-of-clinic behavior of staff (compliance with control measures) affect the risk and maybe hard to assess and control.

The risks posed by this approach are difficult to justify and this approach is not recommended, particularly in areas with abundant community transmission, or in clinics with many personnel or personnel that have many other (especially high risk) contacts.

Self-Monitoring

Self-monitoring by all veterinary personnel is a critical tool to reduce intra-clinic and veterinary-client spread of SARS-CoV-2. Personnel must be cognizant of their health and err on the side of caution if they may be ill. The signs and symptoms of COVID-19 (e.g. fever, cough, chills, sore throat, vomiting, diarrhea) are similar to other illnesses, including the cold and flu, which complicates matters. However, personnel with symptoms related to cold, flu or COVID-19 be sent home and/or not be allowed to visit farms, households or facilities. People with signs or symptoms potentially compatible with COVID-19 should use the Washington Dept. of Health's [COVID-19 Symptom Evaluation and Management Flow Chart](#) or their primary healthcare provider.

Exposed Personnel

The approach to exposed personnel may vary and guidance is provided via Washington's [COVID-19 Symptom Evaluation and Management Flow Chart](#). Contact with local public health is recommended to clarify the need for self-isolation; however, the current default recommendation is 14-day self-isolation. Testing is also recommended after exposure, but testing cannot be used to replace self-isolation. Since testing is not 100% sensitive, a negative test does not indicate that the self-isolation period can be ended.

Infected Personnel

Infected personnel must self-isolate as directed by their local public health jurisdiction.



Recovered Personnel

Recovery from COVID-19 likely provides reasonable immunity, at least in the short term. However, re-infections have been documented. Therefore, people that have had COVID-19 previously must use the same preventive measures as everyone else.

COVID Alert Mobile App

A free, anonymous COVID tracking app is available in Washington. This app anonymously registers contacts with other people using the app. If a user tests positive, they enter a code into the app, and anyone that they have had contact with receives an alert that they were exposed to someone that was positive, without providing any specific information about who was positive. This app does not work on all devices but is a useful monitoring tool in veterinary clinics. It is recommended that all clinic personnel download the app, if it is compatible with their device. This will allow early intervention if there is exposure in the clinic.

Outside the Physical Practice

Identification of High-Risk Clients and Facilities

Querying the health status of animal owners prior to veterinary personnel visiting a farm, household or facility should remain a standard practice. This will enable decisions regarding whether the appointment should be rescheduled or whether additional protective measures and approaches should be used.

On Farms

The approach to farms involves the same concepts as those in clinics. The goal is to minimize the number and closeness of contacts. Visits should be coordinated such that close contact (<6 feet) with owners or farm personnel is avoided as much as possible. Contact may be unavoidable in some situations (e.g. restraint of an animal when a technician or assistant is not available or adequate). In those situations, the following can be considered:

- Using the lowest risk person on the facility based on their health and exposure status.
- Minimizing duration of close proximity through proper planning and organization, and efficient performing of a procedure.
- Asking the person to wear a mask. If they do not have one and clinic supplies are adequate, they could be provided with a mask.
- Use of PPE by veterinary personnel (e.g. mask and eye protection).



Mobile Companion Animal Practices

The general approach in mobile practices is similar to those for companion animal clinics and farm visits, with the understanding that mobile practices may pose a higher risk because they entail entering a client's house. They also often require closer contact with animal owners for restraint. Therefore, identifying and avoiding higher risk situations (see below) is particularly important. Other considerations would include:

- Examining the animal outside of the household (e.g. in vehicle, garage, fenced yard, enclosed porch) where safe for the veterinarian and where escape of the animal can be prevented.
- Using the lowest risk person in the household for restraint, based on querying health and exposure status.
- Minimizing duration of close proximity through proper planning and organization, and efficient performing of a procedure.
- Asking the animal owner(s) to wear a mask. If they do not have one and clinic supplies are adequate, they could be provided with a mask.
- Use of PPE by veterinary personnel (e.g. mask and eye protection).

In some situations, it may be prudent to reschedule or divert the appointment to a physical veterinary clinic where safe handling of the animal without owner involvement can be performed.

Resources

A comprehensive resource for small animal clinics is the *Interim Infection Prevention and Control Guidance for Veterinary Clinics Treating Companion Animals During the COVID-19 Response* from the CDC: https://www.cdc.gov/coronavirus/2019-ncov/community/veterinarians.html?deliveryName=USCDC_2067-DM27395

For farms, follow biosecurity measures for different species according to [USDA APHIS](#) or the Washington State Department of Agriculture's [WSDA AgBriefs: A COVID-19 message to equestrians](#).

The CDC is developing updated guidelines for veterinary clinics. The WSVMA will alert members when the changes become available.



Appendix A

Recommended COVID-19-Related Use of Masks in Veterinary Practice

Item	Use/Comments
Cloth/non-medical mask	<ul style="list-style-type: none"> • Mainly to protect FROM the user's droplets. • Some degree of personal protection. • Should be considered for routine use by all personnel and clients. • Should be mandatory whenever a 6-foot distance cannot be maintained.
Surgical Mask	<ul style="list-style-type: none"> • Mainly to protect FROM the user's droplets. • More predictable performance than cloth/non-medical masks. • Unnecessary in routine non-medical situations (e.g. interacting with a person where a 6-foot distance cannot be maintained). • Best reserved for sterile procedures and higher risk patient contact situations (see table).
N95 Mask	<ul style="list-style-type: none"> • Protection both OF and FROM the user. • Wearer must be fit tested. • Rarely required in veterinary situations.
Face Shield	<ul style="list-style-type: none"> • Some protection FROM the user's droplets but likely inferior to a cloth/non-medical mask. • Provides eye protection and addition level of respiratory protection. • Prevents hand contact with mask. • Potential alternative for people that cannot wear a mask for medical reasons. • Potential added level of protection for the wearer in close contact situations. • Recommended along with mask for certain higher risk situations (see table).
Goggles	<ul style="list-style-type: none"> • Excellent eye protection if using appropriate goggles. Goggles intended for protection against droplets should be used when eye protection is indicated. • Unlike masks, goggles do not provide additional respiratory protection or prevent hand contact with masks. • Regular safety glasses provide impact protection but not the same level of protection against droplets. • Eyeglasses offer some protection are not considered adequate protection from droplets.



Appendix B

Recommended COVID-19-Related Use of PPE in Veterinary Practice

Item	Gloves	Mask	Outerwear	Eye protection
Situation where 6-foot distance from someone cannot be maintained		Cloth /non-medical	Routine (e.g. lab coat, coveralls)	
Contact with a healthy animal that has no known SARS-CoV-2 exposure			Routine	
Contact with a healthy animal of a species that can be infected by SARS-CoV-2 (e.g. cat, dog, ferret) that has had known or suspected contact with a person with COVID-19 in the <u>past 14 days</u>	Yes	Surgical	Dedicated*	Yes
Contact with a healthy animal of a species not known to be susceptible to infection but that has had known or suspected contact with a person with COVID-19 in the <u>past 3 days</u>	Yes	Surgical	Dedicated	+/-
Contact with an animal of a species that can be infected by SARS-CoV-2 (e.g. cat, dog, ferret)** that has had known or suspected contact with a person with COVID-19 in the past 14 days and which has signs potentially compatible with COVID-19 (acute respiratory or gastrointestinal disease)	Yes	Surgical or N95	Single use, impermeable***	Yes
Aerosol generating procedure (e.g. intubation, dental examination, close contact with the face of a panting dog) involving an animal of a species that can be infected by SARS-CoV-2 (e.g. cat, dog, ferret)** that has had known or suspected contact with a person with COVID-19 in the past 14 days and which has signs potentially compatible with COVID-19	Yes	N95 whenever possible. Surgical mask acceptable if needed.	Single use, impermeable	Yes



** Dedicated means an item used only for that patient. This could include a laboratory coat that is laundered after use.*

*** Note: The species range that is susceptible to COVID-19 is still poorly understood. The risks are thought to be highest with cats and ferrets. The risk related to dogs is unclear and likely much lower than cats and ferrets. The list of higher risk species may change over time and veterinarians should follow ongoing developments.*

**** E.g. surgical gown.*