This is a BSAVA Information Sheet on factors to consider before agreeing to vaccinate small animals during the Covid-19 pandemic. This guidance should be read in conjunction with RCVS guidance and the accompanying flowcharts and documentation. It is effective from 14th April 2020 for the next 2 weeks and on a rolling 2 week basis thereafter. All the advice is intended as a guide to assist BSAVA members but it is not a replacement for professional judgement. The responsibility for clinical decisions resides solely with the attending veterinarian.

General advice for veterinary staff

For further details please see information from RCVS, BVA and BSAVA websites.

Remember:

1. Adhere to government advice relevant to your country or local area to reduce your level of interaction with others wherever possible.
2. Consider if a journey is necessary by you, staff or clients and where it is, minimise use of public transport.
3. Wash your hands as recommended: encourage your colleagues and clients to do likewise.
4. Though some veterinary professionals are required to be physically at their work place, nobody should be working normally – it is not ‘business as usual’.
5. Respect that individuals who are shielding themselves or in self-isolation at home will need extra support.
6. Maintaining social distancing is a priority – between staff, between staff and clients, and between clients.
7. Where you cannot maintain social distancing, e.g. for animal restraint, then protect everyone as far as possible.
8. Use appropriate levels of PPE but equally try to conserve PPE and other resources that may be used by our colleagues in the medical world. RCVS Knowledge has provided guidance on the use of PPE.
10. See BSAVA’s guidance on Remote Consultation and when assessing a case, and in particular when doing so remotely, make careful clinical notes to support your assessment.

For details of the UK government’s advice on how to maintain good hygiene and social distancing while working, please see the BSAVA COVID-19 webpages and the section ‘Veterinary Advice for Practising Vets’. Veterinary staff may also find it useful to point clients to ‘Advice for Pet Owners’.
Introduction to this Information Sheet

During the initial three weeks (until 13th April) of the UK government’s ‘lockdown’ during the Covid-19 pandemic, routine pet vaccination was temporarily suspended or drastically reduced. However, as the situation may well persist for further weeks, it is important to realise that continued suspension of all vaccinations may increasingly compromise animal health and welfare. It may also be counter-productive if, as a result, there were infectious disease outbreaks leading to more small animal hospital admissions (and associated human-to-human contact). Equally, the act of vaccinating may increase the risks of human-to-human contact and coronavirus transmission. Therefore, each individual vaccination requires a risk-benefit analysis, led by a veterinary surgeon. It can be difficult when comparing the benefits of animal health with the risk to human health. Some clients may be very anxious to protect their pet as an important family member. These tables and risk pyramids show which animals BSAVA consider, on the basis of scientific evidence and specialist-led opinion, should be prioritised; however, the final decision rests with the individual veterinary surgeon’s application of their clinical judgement with their knowledge of the individual circumstances of the pet. The final responsibility for clinical policy rests with the senior veterinary surgeon at each practice premises.

BSAVA recommend all puppies and kittens are isolated indoors until they have received their vaccines. We consider the first annual booster as being more important than subsequent annual boosters. For rabbits and ferrets their accommodation should be such that any normal social groups are maintained but contact with other groups is reduced as far as possible.

For advice on microchipping and neutering see other BSAVA resources.
Decision making in small animal vaccination

FIGURE 1. Flowchart to guide decision making in small animal vaccination.

Client requests vaccination

Consult RCVS Guidance
1. Is this important for the food chain – NO
2. Is it an emergency – NO
3. Can you support remotely – YES

Remotely assess the animal's general health, current vaccination status and risks of disease exposure (see the rest of this document). Decide on the need for vaccination in the next 2 months, then discuss with owner and document your decision.

If vaccination is not carried out in the next 2 months, is there a significant risk that during that time it will either have animal health and welfare implications or increase social interactions (e.g. veterinary hospital care)?

YES

NO – advise client that this should wait until restrictions on social distancing are changed or anything new is observed.

Can you do this whilst maintaining social distancing for you and your team and the public?

YES


Arrange vaccination
### Dogs

#### Vaccination Schedule

<table>
<thead>
<tr>
<th>Vaccination Type</th>
<th>Vaccine Used</th>
<th>Factors to Consider in Individual Risk Assessment</th>
</tr>
</thead>
</table>
| **Primary (puppy)** | Distemper virus, Leptospirosis, Parvovirus, Adenovirus | Local incidence of parvo (see SAVSNET website), leptospirosis (local knowledge) etc.  
If vaccinating one puppy, then also vaccinate all the puppies that live in the household or on the premises.  
Suggested timing of 1st vaccination if puppy is to go outside:  
1st dose not before 8 weeks, preferably after 10 weeks;  
2nd vaccination 4 weeks later. Consult individual manufacturers’ data sheets for details.  
If puppy can be kept indoors (e.g. toy breed), then risk is considerably reduced; however, consider risks of adverse effects on socialisation. Access to garden increases risk of exposure. |
| **Primary (puppy)** | Bordetella, Parainfluenza (kennel cough) | For most dogs this is unlikely to be needed within the next 2 months. If vaccinating for other reasons and it is possible to give an intranasal vaccine whilst maintaining social distancing then can be given at same time. Beware of use near immunocompromised people.  
In exceptional circumstances where an outbreak of kennel cough could affect large numbers of dogs in a household or premises then vaccination may be required. |
| **Primary (puppy) & Booster** | Rabies | Only in exceptional circumstances (e.g. repatriation, overseas work). Not necessary at this time for pre-emptive future holiday arrangements. |
| **Booster (including first booster)** | Distemper virus, Parvovirus, Adenovirus | For most dogs this is not necessary for the moment as immunity is long-lived and incidence of disease in vaccinated and boosted dogs (regardless of time since last vaccine) is very low. First booster is a higher priority. |
| **Booster (including first booster)** | Leptospirosis | Local knowledge, dog type (see page 8).  
Unlikely to be necessary within the next 2 months unless high risk area or dog type (and over 15 months since last vaccination). First booster is a higher priority.  
Unlikely to be necessary on human health grounds. |
| **Booster** | Bordetella, Parainfluenza (kennel cough) | For most dogs this is not necessary within the next 2 months.  
In exceptional circumstances where an outbreak of kennel cough could affect large numbers of dogs in a household or premises then vaccination may be required. |
<table>
<thead>
<tr>
<th>VACCINATION TYPE</th>
<th>VACCINE USED</th>
<th>FACTORS TO CONSIDER IN INDIVIDUAL RISK ASSESSMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary (kitten)</td>
<td>Calicivirus</td>
<td>If kitten can be kept indoors and away from adult cats, then risk is considerably reduced. However, consider behavioural consequences.</td>
</tr>
<tr>
<td></td>
<td>Herpesvirus</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Parvovirus/ Panleukopenia/ Enteritis</td>
<td>Remember some infections can be spread from asymptomatic adult cats to kittens.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>If vaccinating one kitten, then also vaccinate all kittens that live in household or on premises.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1st vaccination: 12 weeks, 2nd vaccination 4 weeks later (to delay footfall).</td>
</tr>
<tr>
<td>Primary (kitten)</td>
<td>Chlamydia</td>
<td>Very unlikely to be necessary at this time even if kitten going outside, unless in large multi-cat household. Only spread by close social contact (not fighting).</td>
</tr>
<tr>
<td></td>
<td>Feline leukaemia virus</td>
<td>Can be included if animal is at practice for other vaccines.</td>
</tr>
<tr>
<td>Primary (kitten) &amp; Booster</td>
<td>Rabies</td>
<td>Only in exceptional circumstances (e.g. repatriation or overseas work). Not necessary at this time for pre-emptive future holiday arrangements.</td>
</tr>
<tr>
<td>Booster</td>
<td>Calicivirus</td>
<td>For most cats this is not necessary at this time as immunity is long-lived and incidence of disease in vaccinated and boosted is very low.</td>
</tr>
<tr>
<td></td>
<td>Herpesvirus</td>
<td>For very high-risk environments (e.g. multi-cat households with endemic infections) calicivirus/herpesvirus booster may be necessary.</td>
</tr>
<tr>
<td></td>
<td>Parvovirus/ Panleukopenia/ Enteritis</td>
<td></td>
</tr>
<tr>
<td>Booster</td>
<td>Chlamydia</td>
<td>Very unlikely to be necessary unless in large multi-cat household. Only spread by close social contact (not fighting). Immunity to Chlamydia is relatively short lived.</td>
</tr>
<tr>
<td></td>
<td>Feline leukaemia virus</td>
<td>Can be included if animal is at practice for other vaccines.</td>
</tr>
</tbody>
</table>
Prioritisation of the need for vaccination of dogs and cats

Highest risk of infection/highest priority for vaccination

- Puppies and kittens needing 2nd vaccination
- Puppies and kittens assessed as needing 1st vaccination
- First annual booster for dogs and cats that go outside
- Dogs at serious risk of leptospirosis*
- Changing multi-cat/dog environments
- Annual booster for dogs and cats that go outside**
- Puppies less than 8 weeks old
- Indoor-only kittens
- Indoor-only adult dogs and cats

Lowest risk of infection/lowest priority for vaccination

* and ** see notes on leptospirosis and parovirus on page 8

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### Small mammals

<table>
<thead>
<tr>
<th>VACCINATION TYPE</th>
<th>VACCINE USED</th>
<th>FACTORS TO CONSIDER IN INDIVIDUAL RISK ASSESSMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>RABBIT</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Primary &amp; Booster</td>
<td>Myxomatosis</td>
<td>Seasonal disease spread from wild rabbits and flies can spread infection to indoor rabbits. Common and serious disease. Consider geographical risk and indoor/outdoor environment but generally regarded as essential vaccination.</td>
</tr>
<tr>
<td>Primary &amp; Booster</td>
<td>Rabbit haemorrhagic disease 1</td>
<td>Less common disease but if vaccinating or boosting against myxomatosis then some vaccines will cover against both.</td>
</tr>
<tr>
<td>Primary &amp; Booster</td>
<td>Rabbit haemorrhagic disease 2</td>
<td>Essential for outdoor rabbits and important for indoor rabbits where owners are going for walks in areas where there are wild rabbits. Depending on local risk assessment, if using Filavac (RHDV1 and RHDV2) or Eravac (RHDV2 only), then likely to need to use Myxo and RHD I combination vaccine as well. Both need annual boosters. Separate vaccines from different manufacturers by 2 weeks. New triple combination vaccine with annual renewal imminent.</td>
</tr>
<tr>
<td><strong>FERRET</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Primary &amp; Booster</td>
<td>Rabies</td>
<td>Ferrets travelling under the Pet Travel Scheme are legally required to be vaccinated against rabies. Only in exceptional circumstances (e.g. repatriation or overseas work). Not necessary at this time for pre-emptive future holiday arrangements.</td>
</tr>
<tr>
<td>Primary &amp; Booster</td>
<td>Distemper</td>
<td>Transmitted from dog or other ferrets. No vaccine is currently licensed for use in ferrets against distemper. Consider keeping indoors as an alternative to primary course. Once vaccinated, immunity is very good, it is not necessary to provide boosters at this time except under truly exceptional circumstances.</td>
</tr>
</tbody>
</table>
The following are notes explaining some of the reasoning and providing some of the references used in the preparation of these information sheets:

**Off-label recommendations**

Some of the information presented here may require the use of the cascade (‘going off-label’) to protect animal welfare and human health. In all cases it is important to obtain informed consent from the owner before using a drug in a non-authorised way. Different companies that produce very similar vaccines may have slightly different marketing authorisations, so it is important to be familiar with the products available in your practice. Please consult manufacturers if unsure.

**Large groups of dogs or cats**

Veterinary surgeons may be asked to consider vaccinations for large groups of dogs or cats housed together e.g. commercial breeding premises, rescue and re-homing centres. In such instances a risk assessment and clinical judgement will need to be applied. In addition, so as to adhere to UK government advice on limiting travel and social distancing, it may be more appropriate for the veterinary surgeon to visit the premises to perform multiple vaccinations on one occasion. Maintaining social distancing and prudent use of PPE will need to be considered.

**Leptospirosis**

Leptospirosis is a serious disease in dogs and prevention is better than treatment. However, there are no reliable data on the national or local prevalence of leptospirosis in dogs. Not all serovars are covered by current vaccinations. Immunity lasts at least 15 months. Studies have suggested that older individuals, those in urban environments and those with exposure to wildlife and stagnant water sources are at higher risk. Immunity to leptospirosis is often measured using antibodies; however, the absence of detectable antibody does not mean that the vaccinated animal is susceptible.

The zoonotic risk of canine leptospirosis in the UK is very low and should be balanced against the extra human risk from Covid-19 inherent in vaccinating dogs against leptospirosis in the next two months. For further information on the human leptospirosis in the UK see [https://www.gov.uk/government/publications/common-animal-associated-infections-quarterly-reports-2019](https://www.gov.uk/government/publications/common-animal-associated-infections-quarterly-reports-2019)

**Parvovirus**

Parvovirus is a serious infection in dogs and prevention is better than treatment. However, immunity against parvovirus lasts at least 3 years. Disease in correctly vaccinated and boosted dogs is very rare and so delays to booster vaccinations of two or more months are unlikely to have a significant effect on disease in the population or an individual. Assessing risk of parvovirus depends on local knowledge and data available from surveillance sources such as SAVSNET (which takes data on confirmed cases from most of the UK diagnostic laboratories).
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Sources used


