

Newsletter 12/2018

We are pleased to welcome you to the monthly BattLab newsletter. This newsletter will bring you the latest news and information about our laboratory and all tests that we can offer to all our clients.



Our laboratory will be up and running for most of the holiday time. We will be closed only on Tuesday 25th and Wednesday 26th of December.



relatives, friends and of course pets. However, the festive season also presents hidden dangers for our pets, as we are sure you are well aware of. In this short article, we just

of this is still unclear.

want to provide you a list of some of the dangerous foods for our pets and refresh what these can cause, with a particular attention to the clinical signs and changes in blood results. Chocolate: theobromine is a substance contained in chocolate and toxic to dogs and cats. Even a small amount, can cause hyperexcitability, tremors and even convulsions. Maybe not everybody knows that the darker the chocolate, the more potent levels of

Christmas is now around the corner, and so it is that time of the year to enjoy our

- theobromine become, with baker's chocolate being the most dangerous. Veterinary treatment should be sought for any dog ingesting more than 3.5 g/Kg of plain/dark chocolate and 14 mg/kg of milk chocolate. Christmas puddings and mince pies (grapes, raisins, sultanas): all these products are toxic to dogs and possibly to cats, even when only small quantities are ingested. They cause severe kidney failure, characterised by severe azotaemia. The pathophysiology
- Onion and garlic: all these products belonging to the Allium species can cause toxicity. They have a powerful oxidative effect, especially in cats, and may cause haemolytic anaemia. Gastrointestinal signs are also very common. Artificial sweeteners: many sweets that we eat during Christmas may contain xylitol.

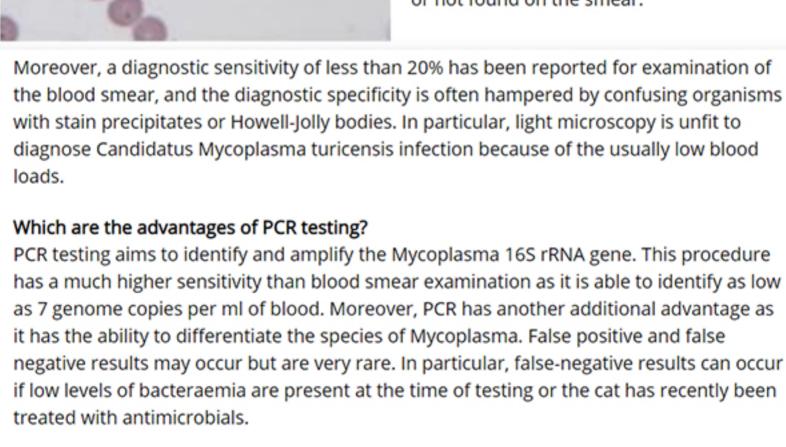
This can induce the release of insulin in the body, resulting in hypoglycaemia and

to function. Signs of poisoning can be rapid sometimes; prognosis is good if this is

potentially damaging other organs (e.g. liver) which do not have the glucose required

- treated quickly. And do not forget other potential hazards including poinsettia, mistletoe and holly, which can all cause gastrointestinal irritation if ingested.





the blood smear, and the diagnostic specificity is often hampered by confusing organisms

Can Haemotropic Mycoplasma be diagnosed

Mycoplasma haemofelis can occasionally be

blood smear examination. It appears as small

parasitaemia is cyclic, and the organisms may

sometimes be numerous, other times scarce

recognised at the time of parasitaemia by

blue cocci, rings, or rods on the borders of

red blood cells (see picture). However, the

by blood smear examination?

or not found on the smear.

has a much higher sensitivity than blood smear examination as it is able to identify as low as 7 genome copies per ml of blood. Moreover, PCR has another additional advantage as

pathogenicity.

pathogenic in immunocompromised cats.

Is Mycoplasma a single pathogen or are there multiple species? There are multiple species of Mycoplasma, which are known to have different level of Mycoplasma haemofelis: most pathogenic species, can cause haemolytic anaemia in immunocompetent cats.

Candidatus Mycoplasma haemominutum: least pathogenic species.

As a general rule, PCR results should be interpreted in the light of patient's clinical signs

Candidatus Mycoplasma turicensis: moderately pathogenic species, can be

What is the current situation in the United Kingdom?

and haematologic findings and infecting haemoplasma species.

Based on a study conducted in 2003 by the University of Bristol on 426 healthy and sick UK cats, 17% were positive for Candidatus Mycoplasma haemominutum, 1.5% were positive for *Mycoplasma haemofelis* alone and one was positive for both.

Yours sincerely,

www.battlab.com

Our laboratory offers a comprehensive service of PCR testing for infectious diseases in all domestic species. For more information visit our website or contact us by phone or email.

The BattLab team Find us on f 024 7632 3275

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