

Welcome to the PBHF
Presentation by Kathie Kinton
Chairman



Health Quiz

Rather than me talk at you I
would like to start off with a bit
of competition

Question 1

Name 4 of the Eye Tests
currently required or advised for
the Border Collie

1. CEA/CH
stands for Collie Eye
Anomaly/Choroidal
Hypoplasia

CEA

This is an inherited eye condition, where the parts of the inside of the eye do not develop normally. It is present at birth, and can normally be seen in affected pups from 6 weeks of age.

CEA

We have no reason to ever have affected puppies in the breed as we have a DNA test, which tell us how many copies, if any, of the CEA/CH gene the individual dogs has.

It is inherited “recessively”

No CEA gene = genetically
clear

One Copy of the CEA gene =
carrier but will never develop
the condition

Two copies of the CEA gene =
clinically affected and has
developed the condition

CEA/CH

If both parents are DNA tested then as long as you do not mate to carriers together you will never produce the condition.

One copy of the CEA gene from one parent will produce a % of carriers in the next generation

PRA

This is an inherited eye condition
and is reported on the BVA/K.C./
ISDS

Schedule A

It is a progressive degeneration of
the retina, eventually leading to
blindness

PRA

At the moment we do not have a
DNA test available

Tests have been developed for
other breeds

It is diagnosed by physical
examination by a vet specializing
in eye condition

Testing is from 1 year onwards
and should be tested for regularly

PRA

Progressive retinal atrophy

Both parents should be tested
unaffected before breeding

Thankfully it is now rarely found
in border collies

A DNA research tests is on the
agenda for the PBHF

Gonioscopy is a relatively new test for the Border Collie, and at the moment this test can only be performed by a specialist vet using specialised equipment, looking at drainage channels within the eye.

The eye test is different to the
one for PRA

the test should never be
performed after the PRA test
not on the same day it can be
before but never after drops have
been put in the eye

Gonioscopy

The Border Collie has just been placed on the B list for the BVA/KC scheme

and is therefore recommended that all Border Collies are tested the B list states that this is under investigation within the breed but results are only available to the BVA

PLL

Currently on the A list

H.C.

Currently on the B list

Quiz Time

Name 4 other tests

C.L.
stands for Ceroid
Lipofuscinosis
A DNA test is available

Deafness
It is believed that deafness
could be hereditary.
BAER Hearing testing is
available

TNS stands for Trapped
Neutrophil Syndrome

DNA test available it is inherited
recessively in the same way as
CEA

Again no puppies should ever be
produced with TNS if breeders
DNA test and never breed from 2
carriers together

The last one H.D.
is a common inherited
orthopaedic problem in many
breeds of dogs and other
mammals, including humans

The Future

What are the PBHF doing?



The PBHF are currently working
on several projects

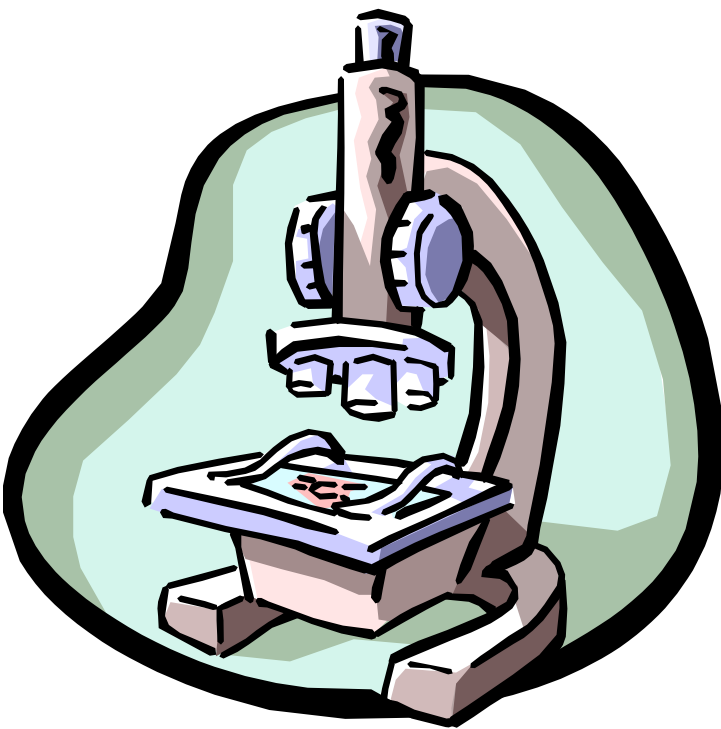
Firstly

Goniscopy

We have agreed a research
proposal with Prof. Kim
Summers
of the University of Edinburgh

This is a charitable body

They have given £5k



We have give £3k to the research

Success so far

Import permits to bring the
samples back issued and samples
from UNSW now in Edinburgh!

These samples however are only ones taken from recent blood samples and swabs we were unable to get the DNA sent for CL and or TNS

An application has been put to
the Veterinary Ethics Research
Committee to use the existing
consent forms

DNA is being extracted as we
speak

Samples currently needed

Epilepsy

Seizures can be caused by a host
of different circumstances

We are working with the
Researchers in Finland

There does seem to be a hereditary
link

The marker on the gene has been
found for BSD

New areas for the PBHF
MRDi
and
PRA

I would like to thank Prof.
Summers for her input and Sue
Ader for the leaflet