

Agria Breed Stats

Brechyconference

Brenda Bonnett, DVM, PhD

Agria Pet Insurance

Agria Djurförsäkring

International Partnership For Dogs

Hot Topics on DogWellNet.com

Brachycephalics

Many articles already on the website on Breed-Specific Breeding Strategies; programs at dog shows, fitness testing, etc.



DogWellNet.com

Hot Topics on DogWellNet.com

Brachycephalics

- New formal research from the Royal Veterinary College in the UK
  - Interesting – measuring skulls, etc.
  - Good evidence of the severity of BOAS in individual dogs

- Quoted… *and misquoted …*

Agria Djurförsäkring

Statistics / data / information

All of us show bias when it comes to what information we take in.

(… and then share)

We typically focus on anything that agrees with the outcome we want.

Noreena Hertz

http://www.brainyquote.com/quotes/keywords/bias.html

Agria Djurförsäkring

Background to Agria data: Collaboration since 1994

- Agria Animal Insurance
- SLU – Swedish University of Agricultural Sciences
-
- University of Guelph, Canada
- Swedish Kennel Club (SKK)

Agria Eläinvakuutus

Agria Djurförsäkring

Background to Agria data: Collaboration since 1994



al Insurance

dish University of Agricultural

of Guelph, Ca

Partnership !

'Demanded' by the breed clubs/ SKK !

Agria
Djurförsäkring

Background to Agria Breed Statistics

- Agria Insurance:
  - **Willingness to share**
  - Research and development funded by Agria-SKK Research Fund.
    - Database has been used in **>32 scientific publications** in refereed journals

Agria Djurförsäkring

Background to Agria Breed Statistics: Dogs

- Approximately **40% of the Swedish population**
  - **80% of insured dogs are purebred**
  - On average **>76%** of dogs within a breed are **registered with SKK**
- Dogs insured to any age (best representation <12 years)
- Coverage is very broad; some exclusions
  - Owner must realize there is a problem and take dog to vet.
  - Visits within 120 days must exceed 'self-risk'
- Stats calculated **per dog** NOT per claim or visit
  - Therefore may differ from veterinarians' perceptions
  - 'Conservative estimates'

Agria
Djurförsäkring

Agria Breed Statistics and the Work of Breed Clubs

Identifying the *most important* conditions in a breed

- Most **common** conditions – i.e. affects the most dogs?
- Breed shows a **higher risk** compared to other breeds
  - Hereditary, use, other reasons
- The most **severe**
  - **Health**: veterinary care, death
  - **Welfare** – suffering, poor quality of life, impact on overall soundness and well-being

Agria Djurförsäkring

Agria Breed Statistics and the Work of Breed Clubs

Identifying the *most important* conditions in a breed

- Those conditions we can **measure**/ detect and about which **something can be done**…
- Conditions recognized by the public as affecting health / welfare
  - **Breathing**
  - **Eyes**

Agria Djurförsäkring

Agria Breed Statistics and the Work of Breed Clubs

Identifying the *most important* conditions in a breed

- Those conditions we can **measure**/ detect and about which **something can be done**…
- Conditions recognized by the public… welfare
  - **Breathing**
  - **…**

Agria statistics are part of the 'Big Picture'

Agria Djurförsäkring

Population Statistics

Interpretation:

number sick or number dead

÷

dog-years-at-risk (HEALTHY AND SICK DOGS)
(number of dogs and how long we followed them)

How common is it?

- **Rate** **per 10,000 DYAR**

- **Risk** compared to All Breeds (Rate in Breed divided by rate in All Breeds)

Is the condition more or less likely in this Breed compared to All Breeds, combined?

Agria Djurförsäkring

Updates: 2006-2011

- **6 years of data**
  - Over 120 breeds
  - Comparative: **Breed: All Breeds**

Agria Eläinvakuutus

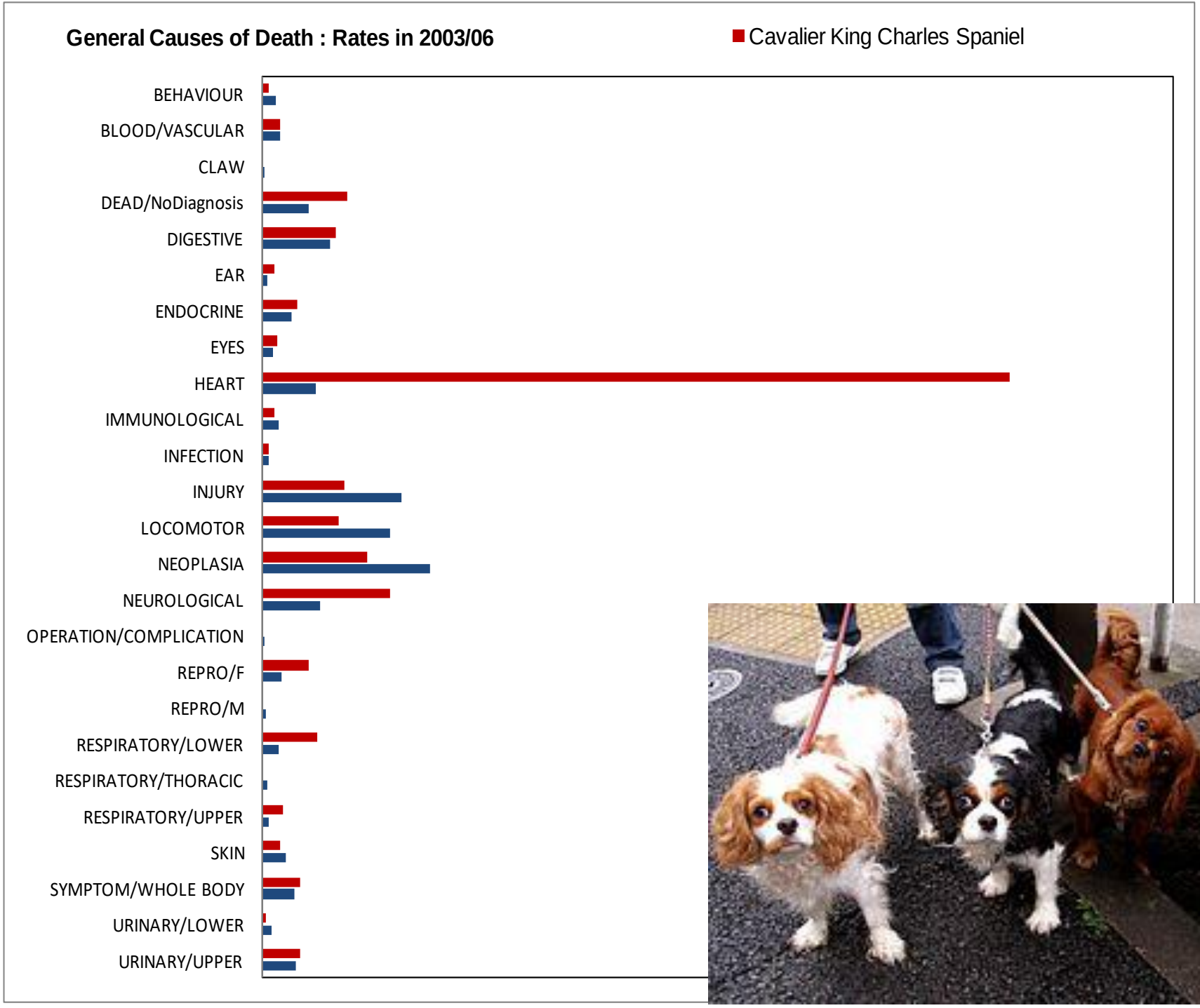
Agria Djurförsäkring

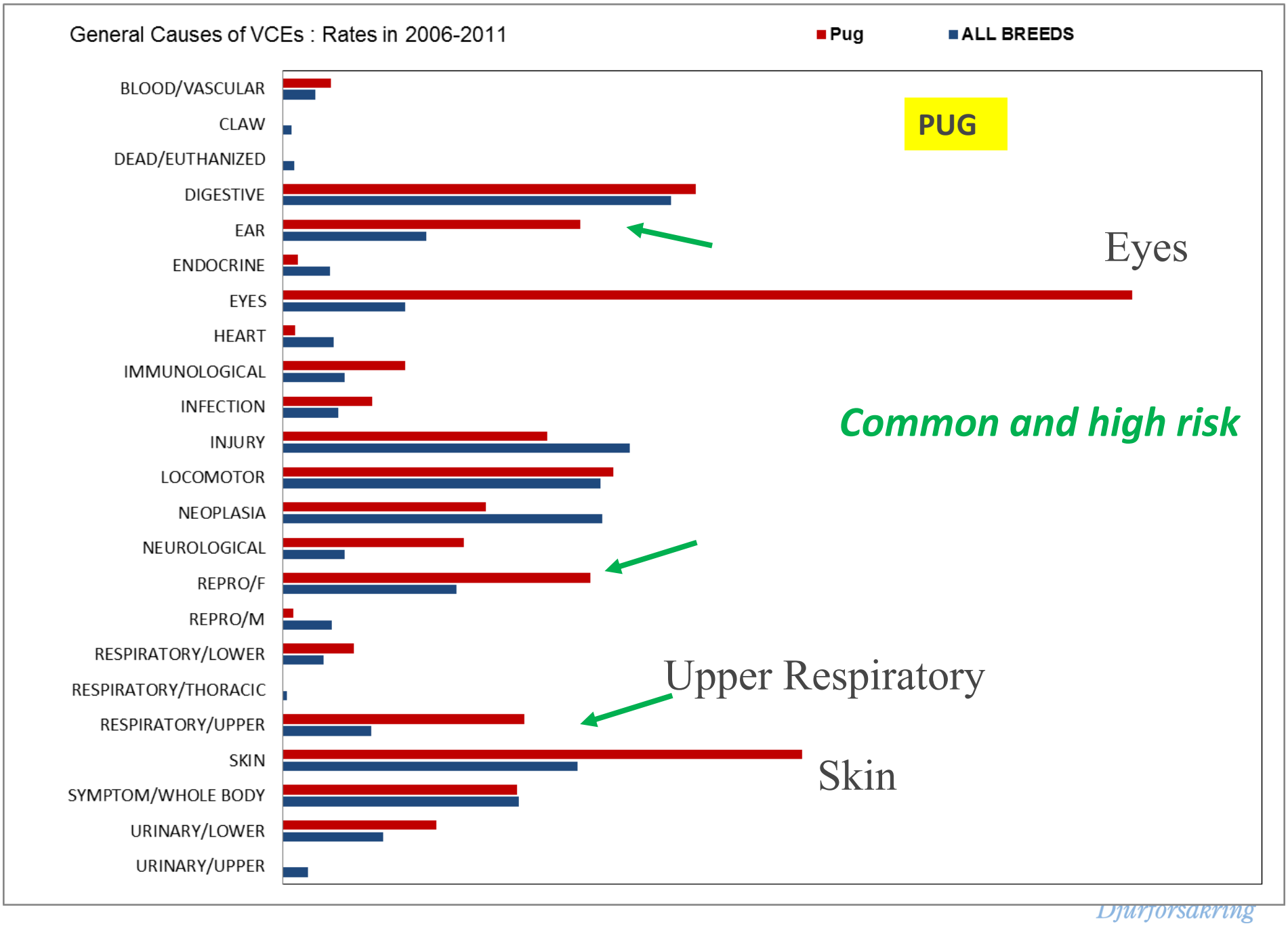
Examples of Dog Updates…



Agria
Djurförsäkring

General Causes of Death : Rates in 2003/06

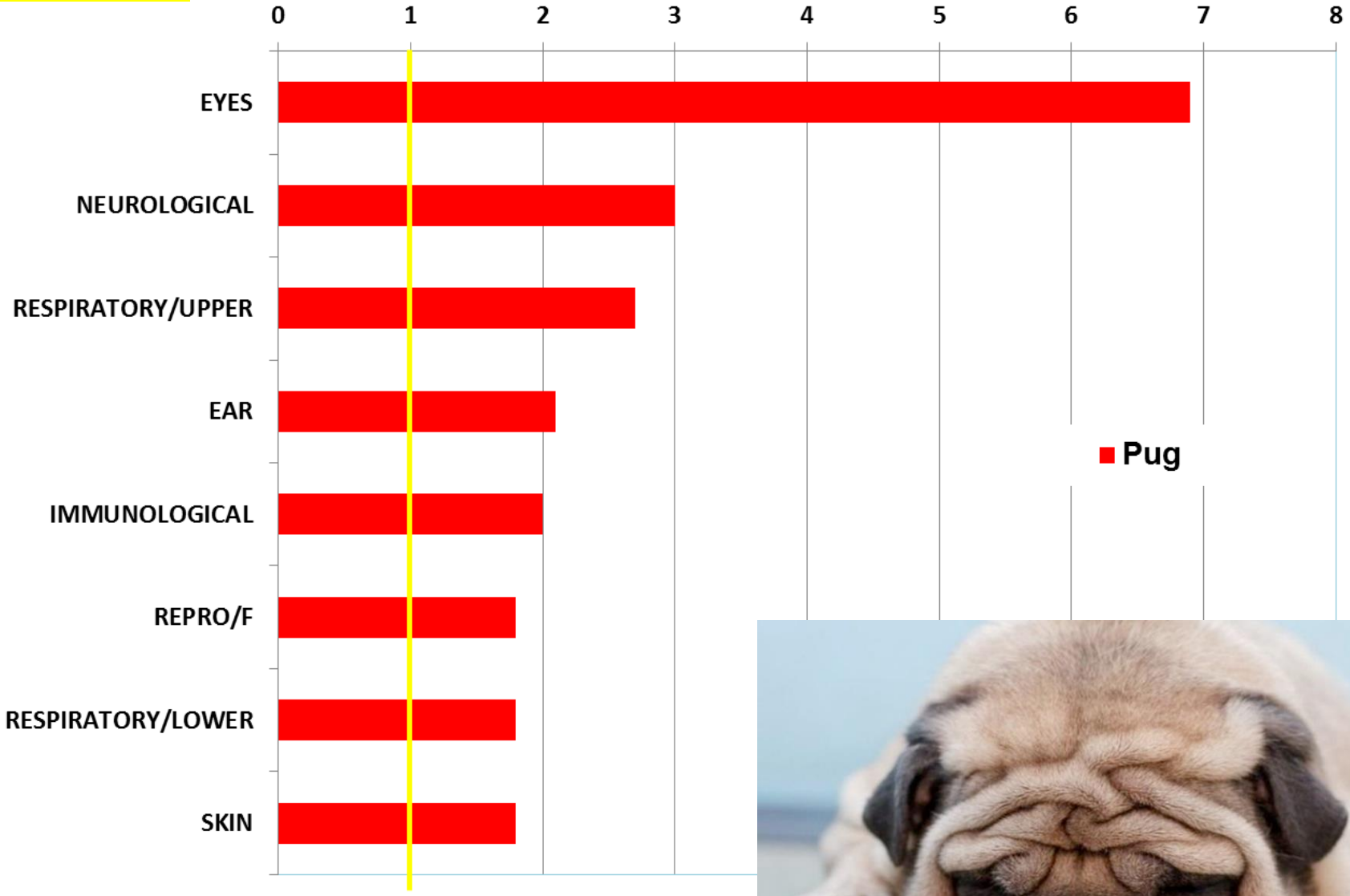




Djurförsäkring

General Categories

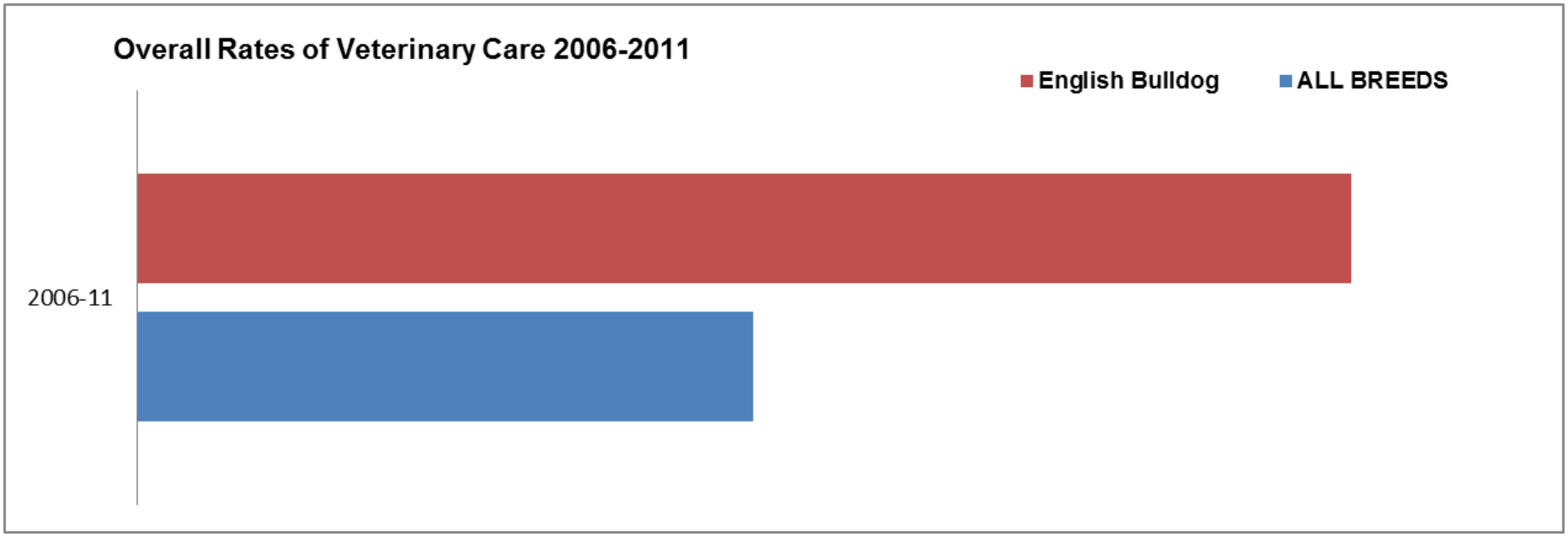
of VCEs Ordered by Relative Risk compared to All Breeds 2006-2011

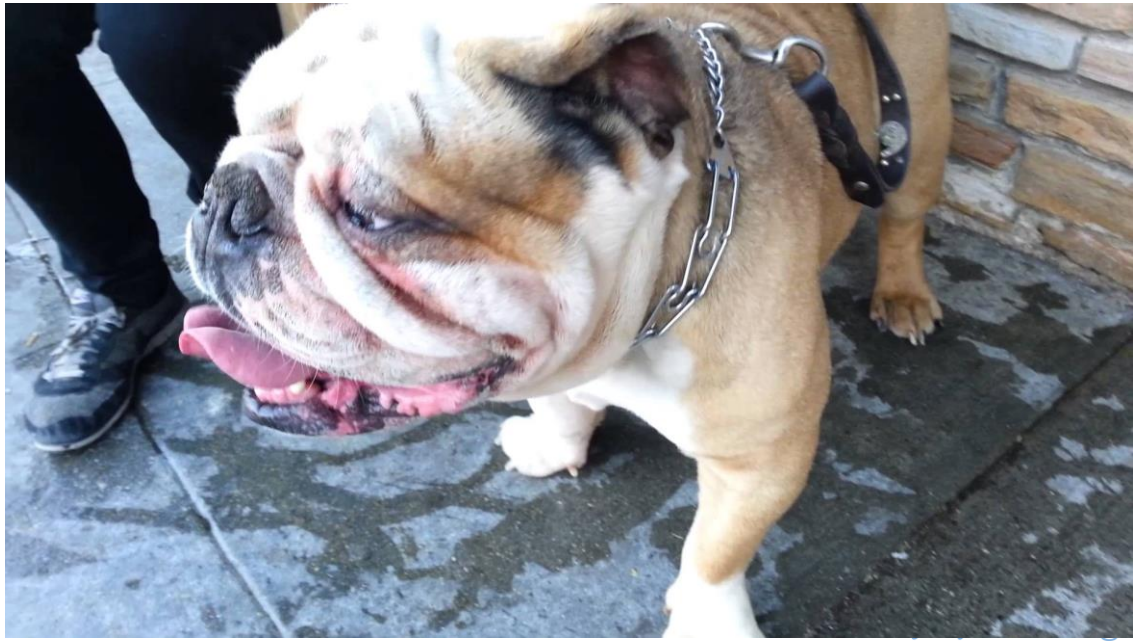


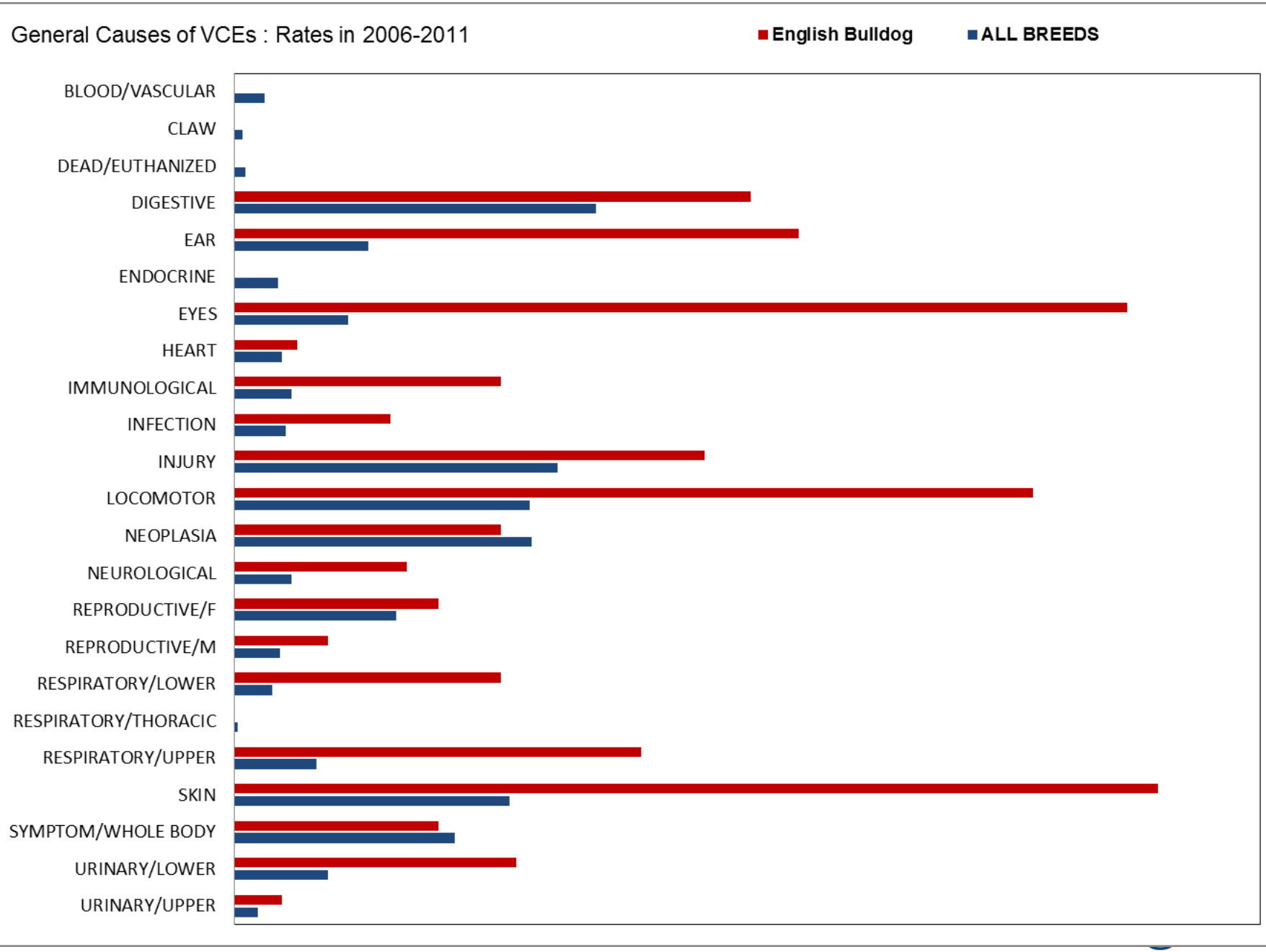
More Specific Diagnoses

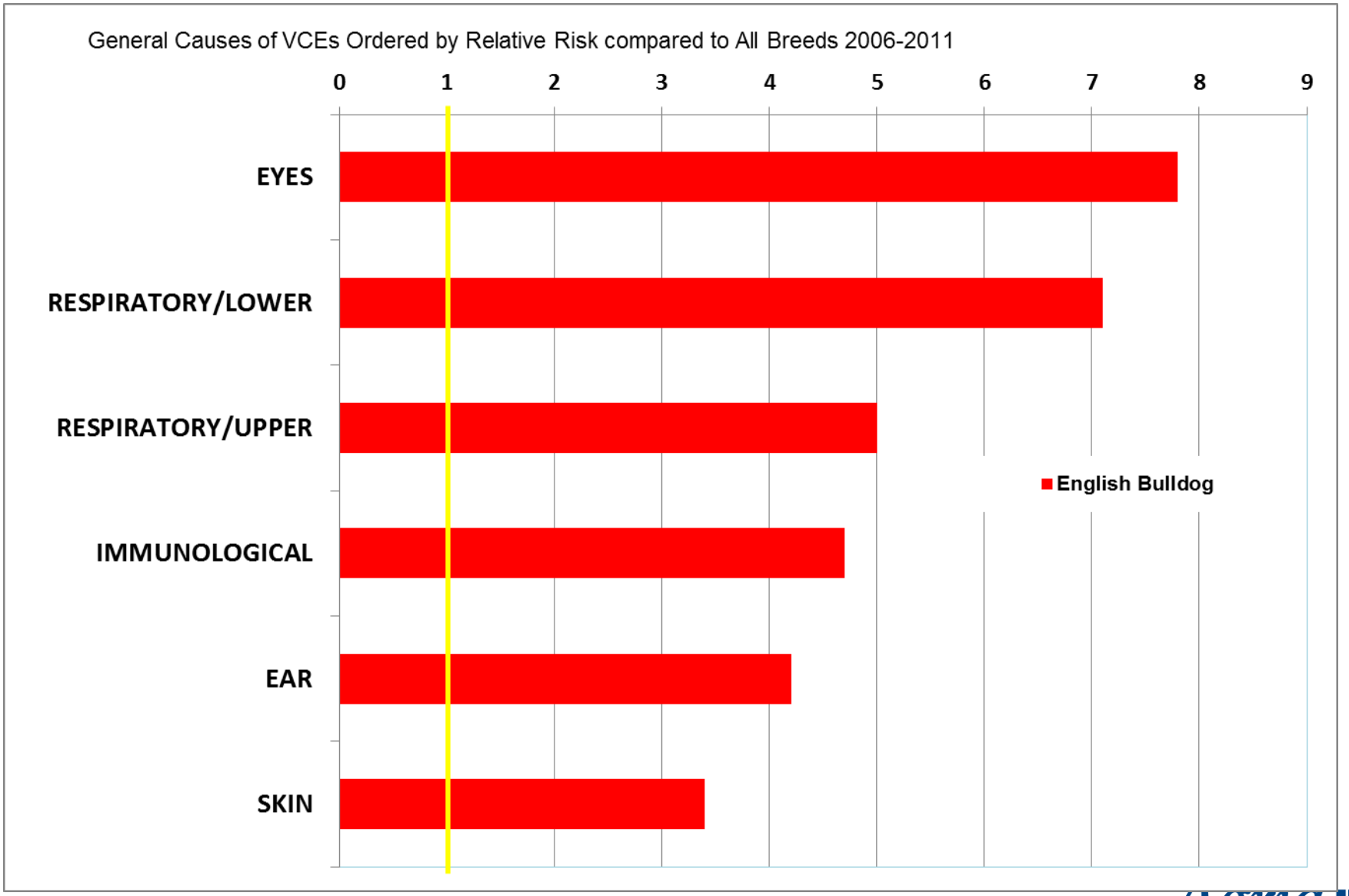
of VCEs Ordered by Relative Risk: Pug compared to All Breeds 2006-2011



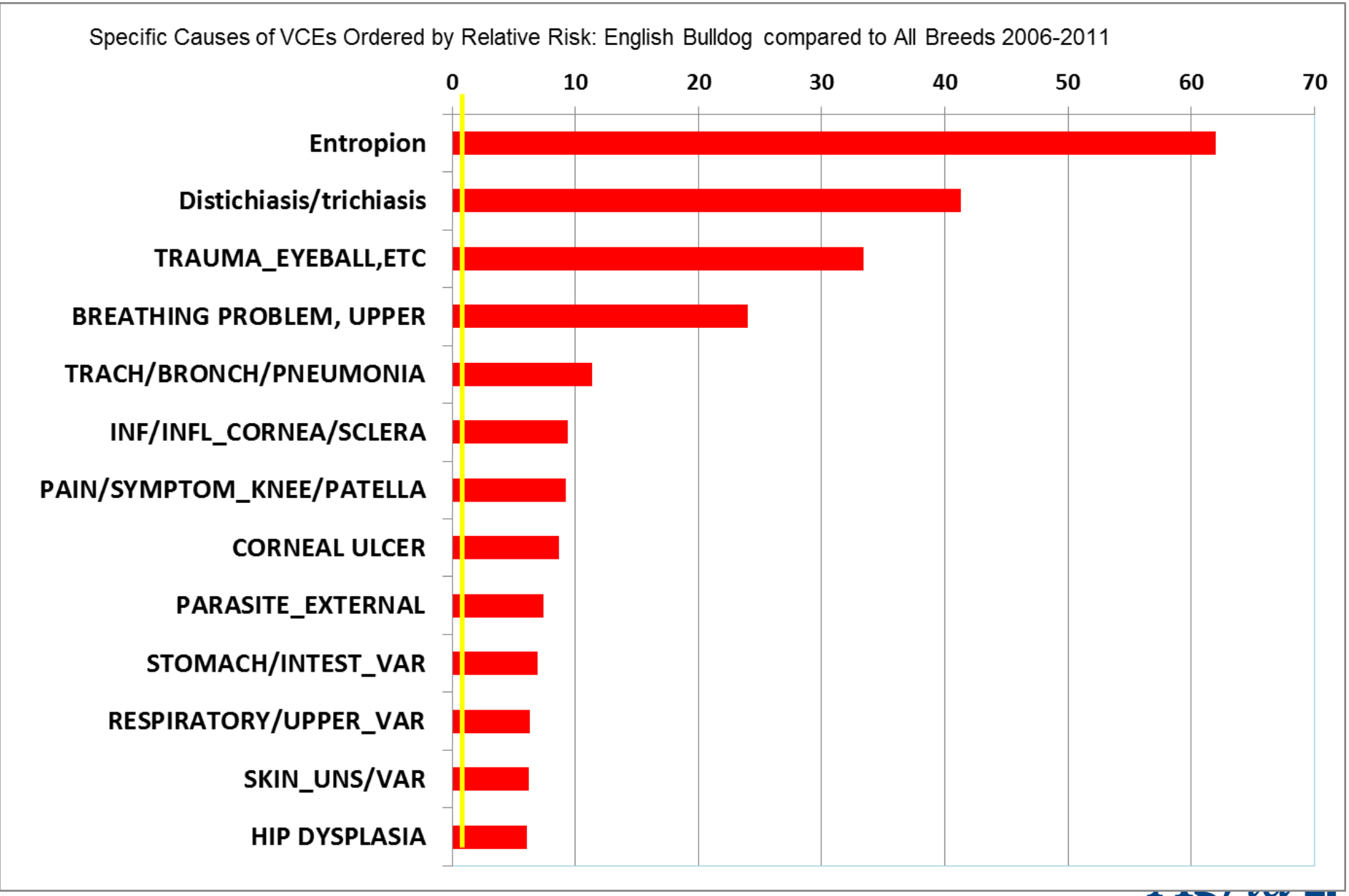

Overall Rates of Veterinary Care 2006-2011
English Bulldog
ALL BREEDS
2006-11



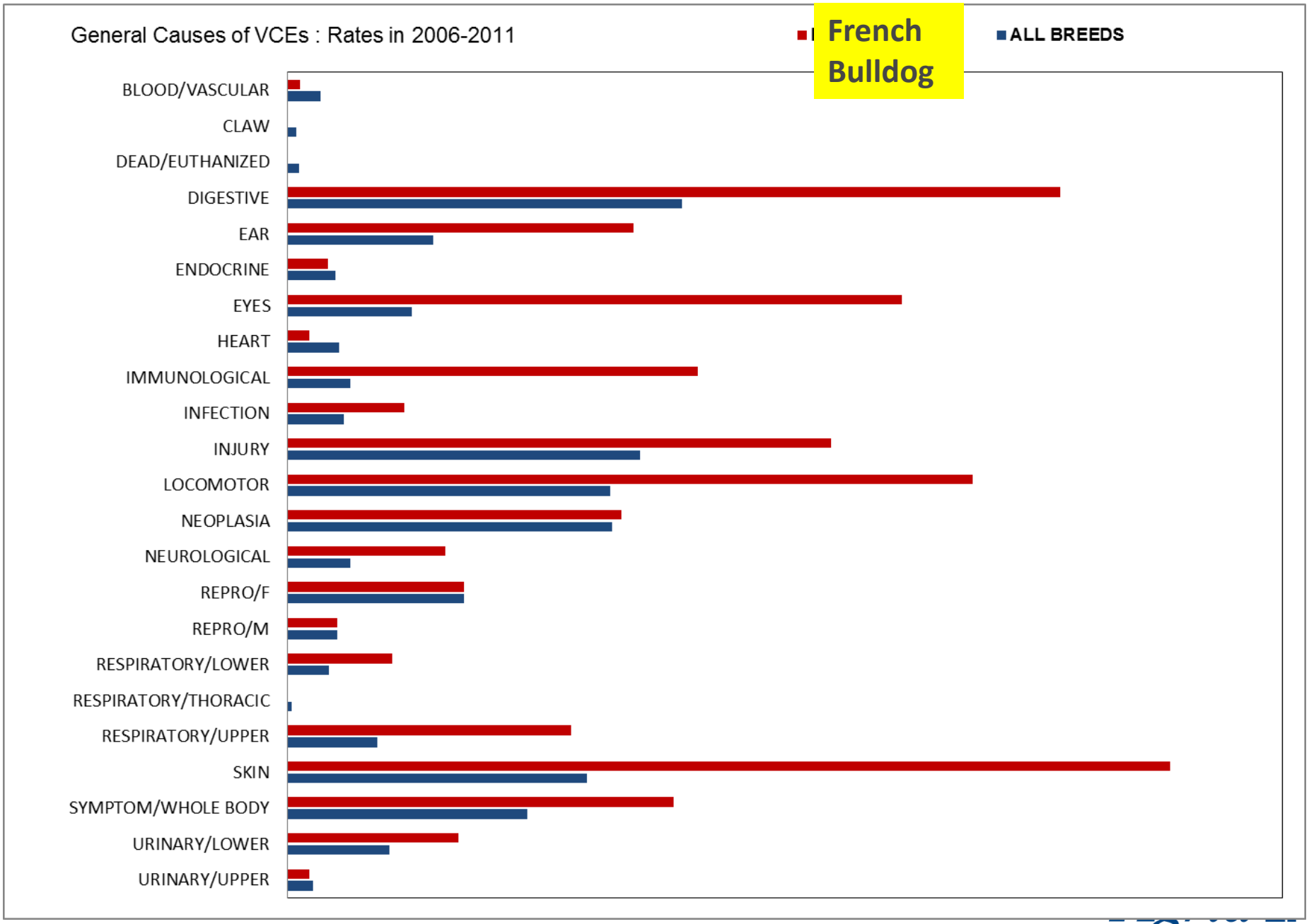

General Causes of VCEs : Rates in 2006-2011
English Bulldog
ALL BREEDS
BLOOD/VASCULAR
CLAW
DEAD/EUTHANIZED
DIGESTIVE
EAR
ENDOCRINE
EYES
HEART
IMMUNOLOGICAL
INFECTION
INJURY
LOCOMOTOR
NEOPLASIA
NEUROLOGICAL
REPRODUCTIVE/F
REPRODUCTIVE/M
RESPIRATORY/LOWER
RESPIRATORY/THORACIC
RESPIRATORY/UPPER
SKIN
SYMPTOM/WHOLE BODY
URINARY/LOWER
URINARY/UPPER



Agria
Djurförsäkring

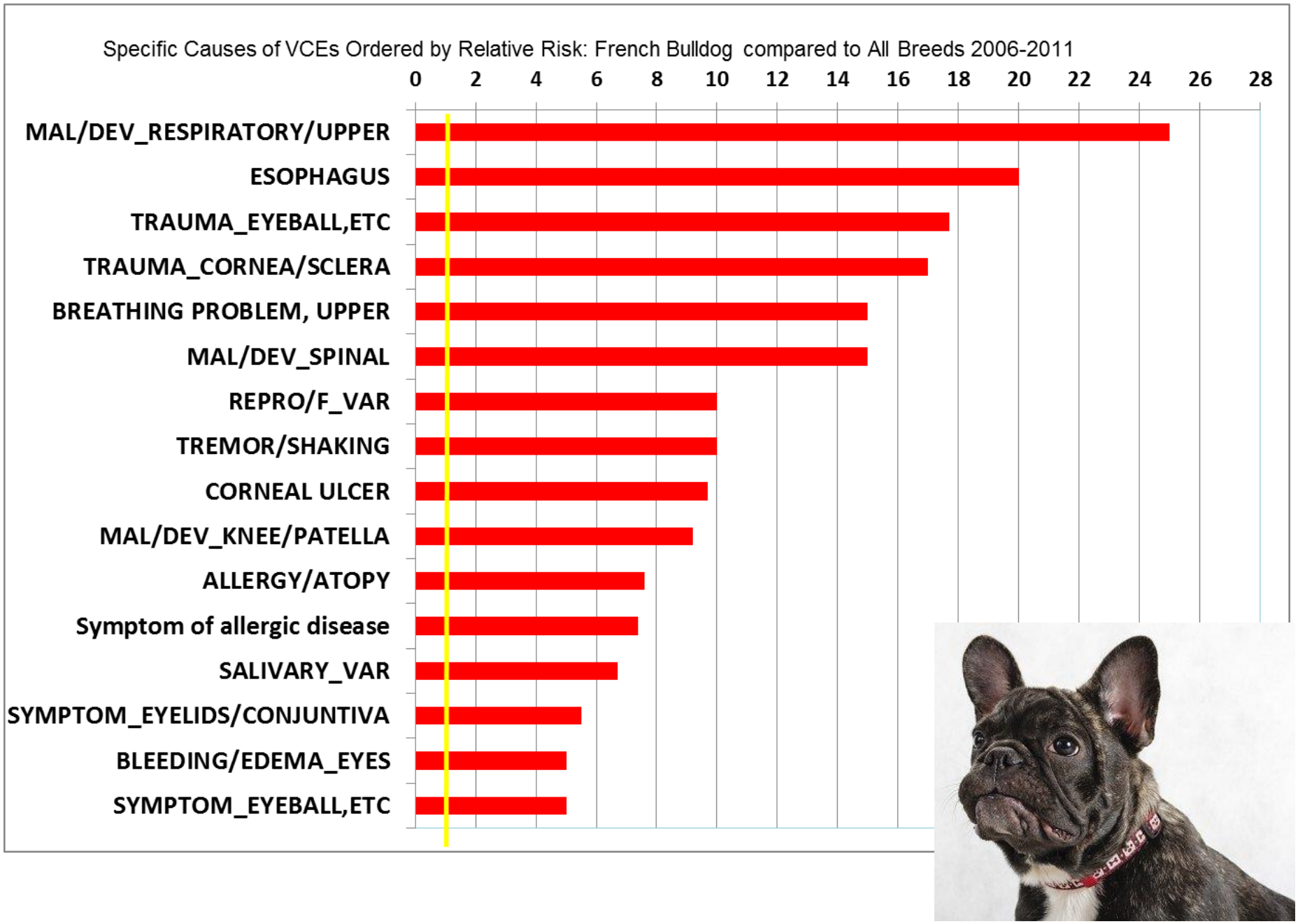


Djurförsäkring

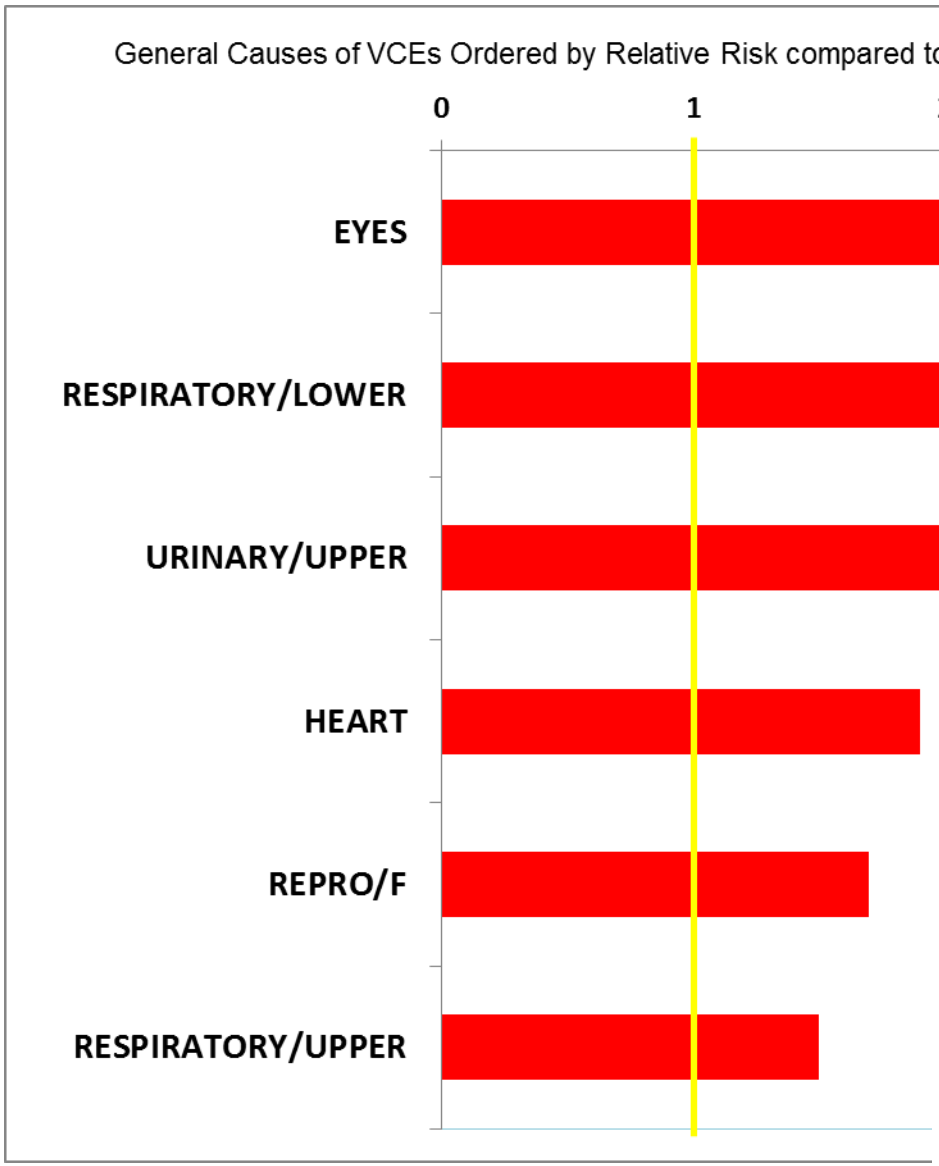


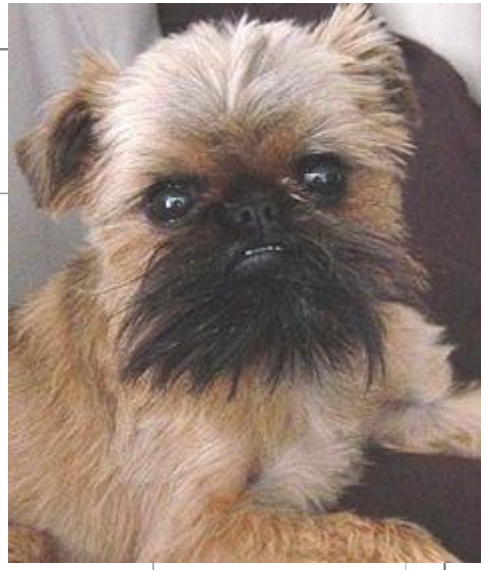
Djurförsäkring

Specific Causes of VCEs Ordered by Relative Risk: French Bulldog compared to All Breeds 2006-2011

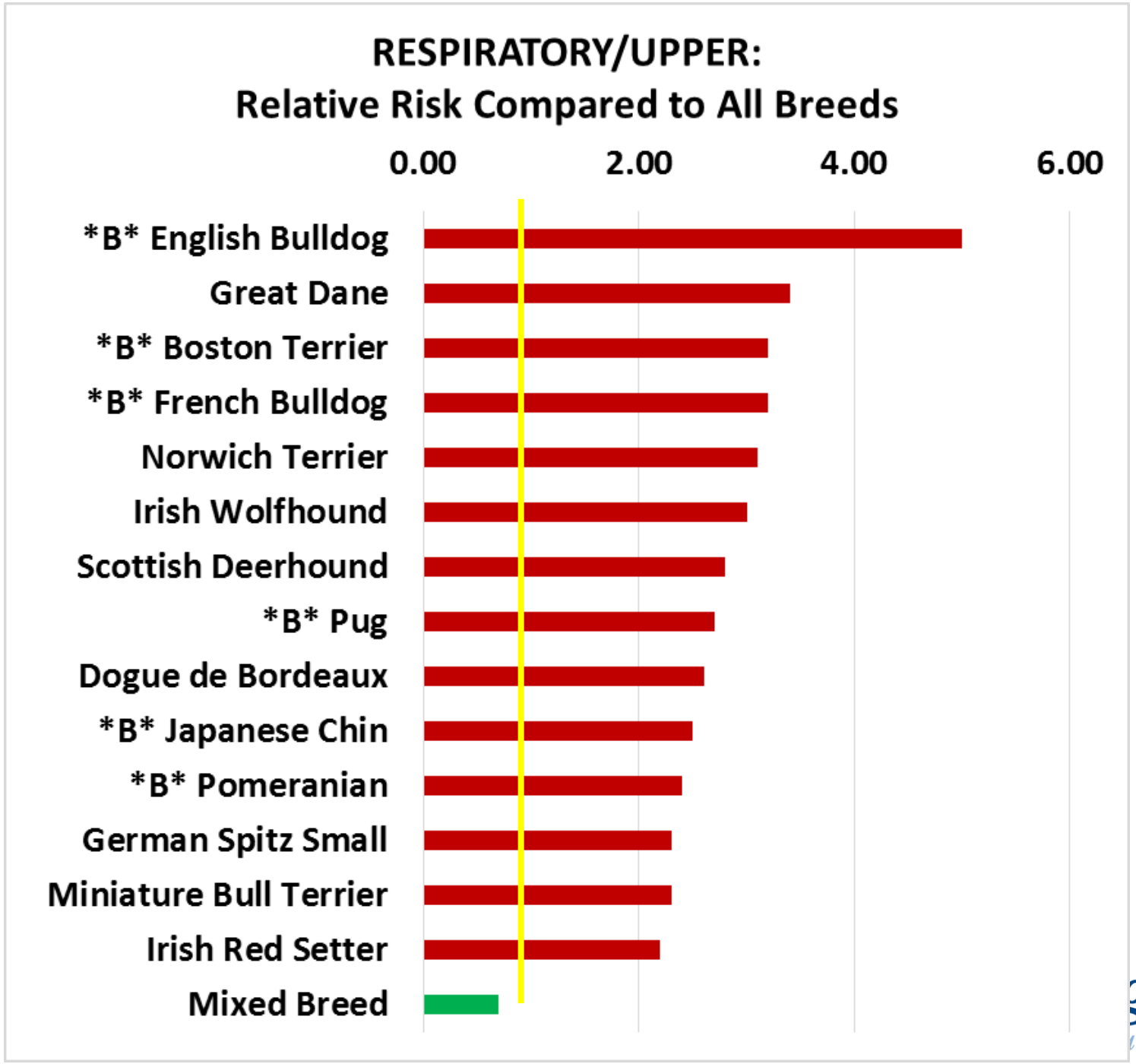


Overall – similar risk… but higher for certain conditions





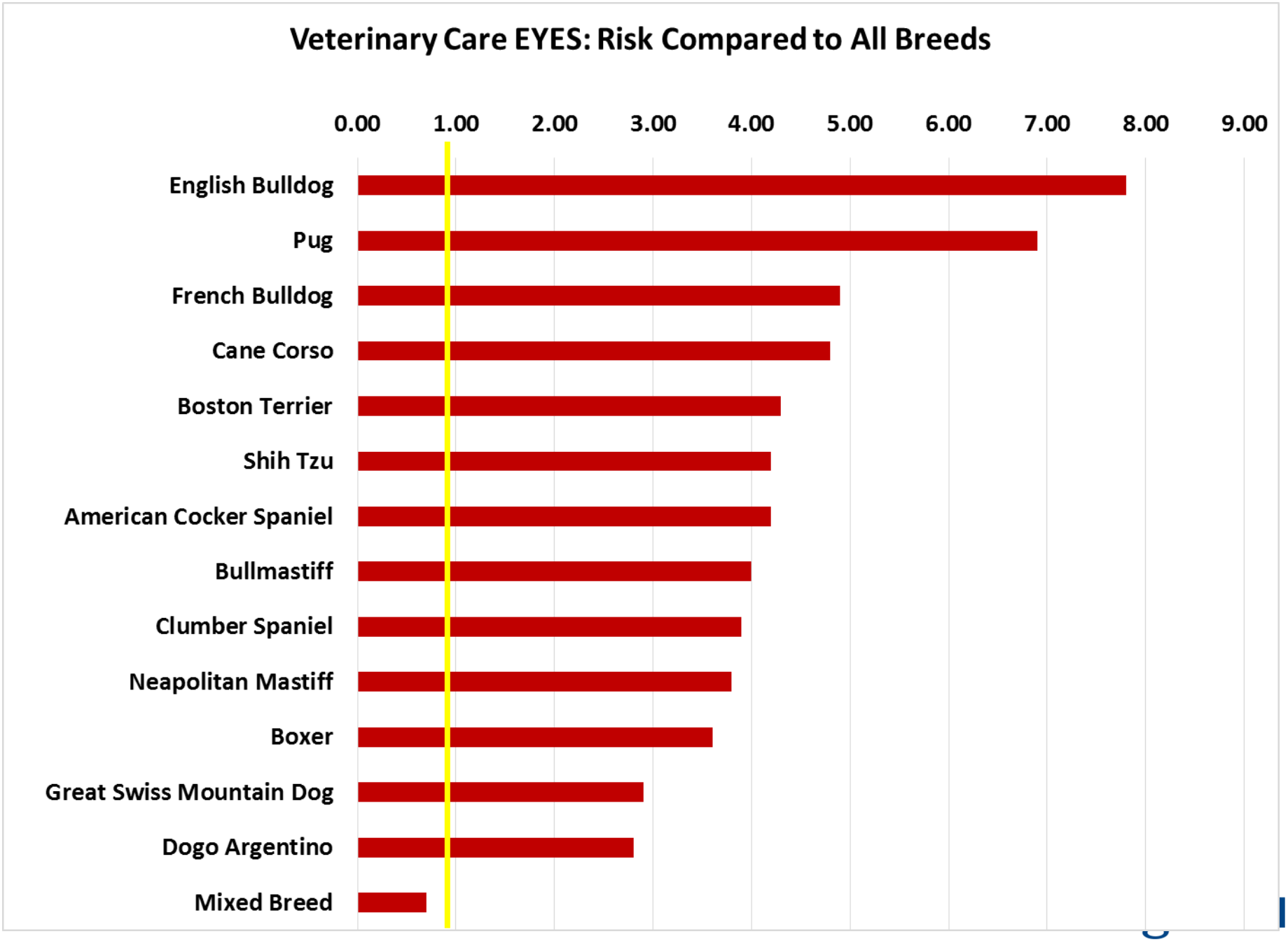
Note – some of the high risk eye problems are not those generally associated with Brachycephaly.


RESPIRATORY/UPPER:
Relative Risk Compared to All Breeds
0.00
2.00
4.00
6.00
B English Bulldog
Great Dane
B Boston Terrier
B French Bulldog
Norwich Terrier
Irish Wolfhound
Scottish Deerhound
B Pug
Dogue de Bordeaux
B Japanese Chin
B Pomeranian
German Spitz Small
Miniature Bull Terrier
Irish Red Setter
Mixed Breed

RESPIRATORY/UPPER: Ranking for Relative Risk Compared to All Breeds

Brachys	Rank/ 200
English Bulldog	1
Boston Terrier	3
French Bulldog	4
Pug	8
Dogue de Bordeaux	9
Japanese Chin	10
Boxer	25
CKCS	27
Griffons	46
Pekingese	47
Shih Tzu	62
Affenpinscher	77

Agria Djurförsäkring



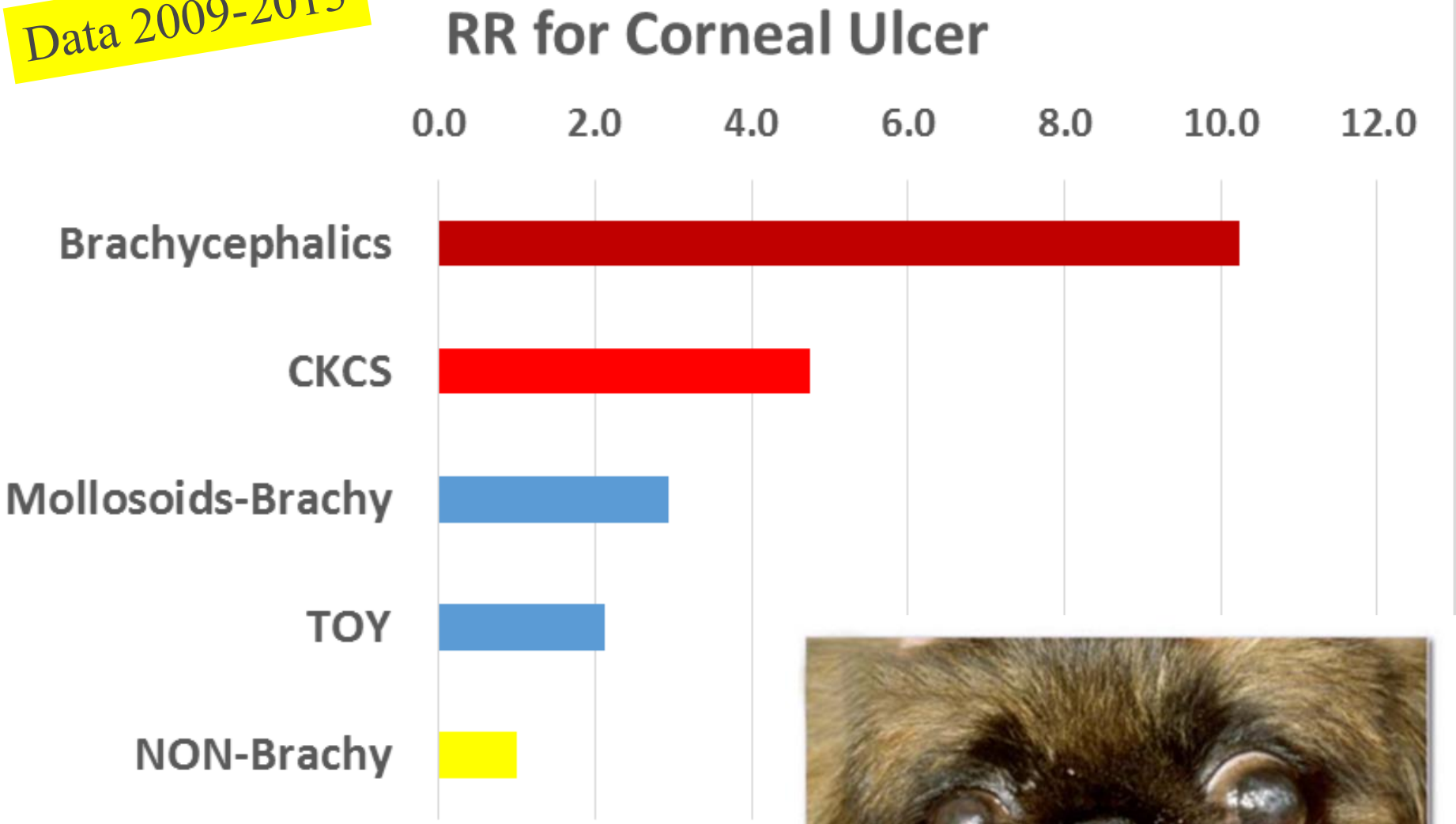
Djurförsäkring

Veterinary Care Eyes: Ranking for Relative Risk Compared to All Breeds

Brachys	RANK
English Bulldog	1
Pug	2
French Bulldog	4
Boston Terrier	6
Shih Tzu	7
Boxer	12
Griffons	20
Pekingese	21
CKCS	22
Affenpinscher	31
Japanese Chin	58

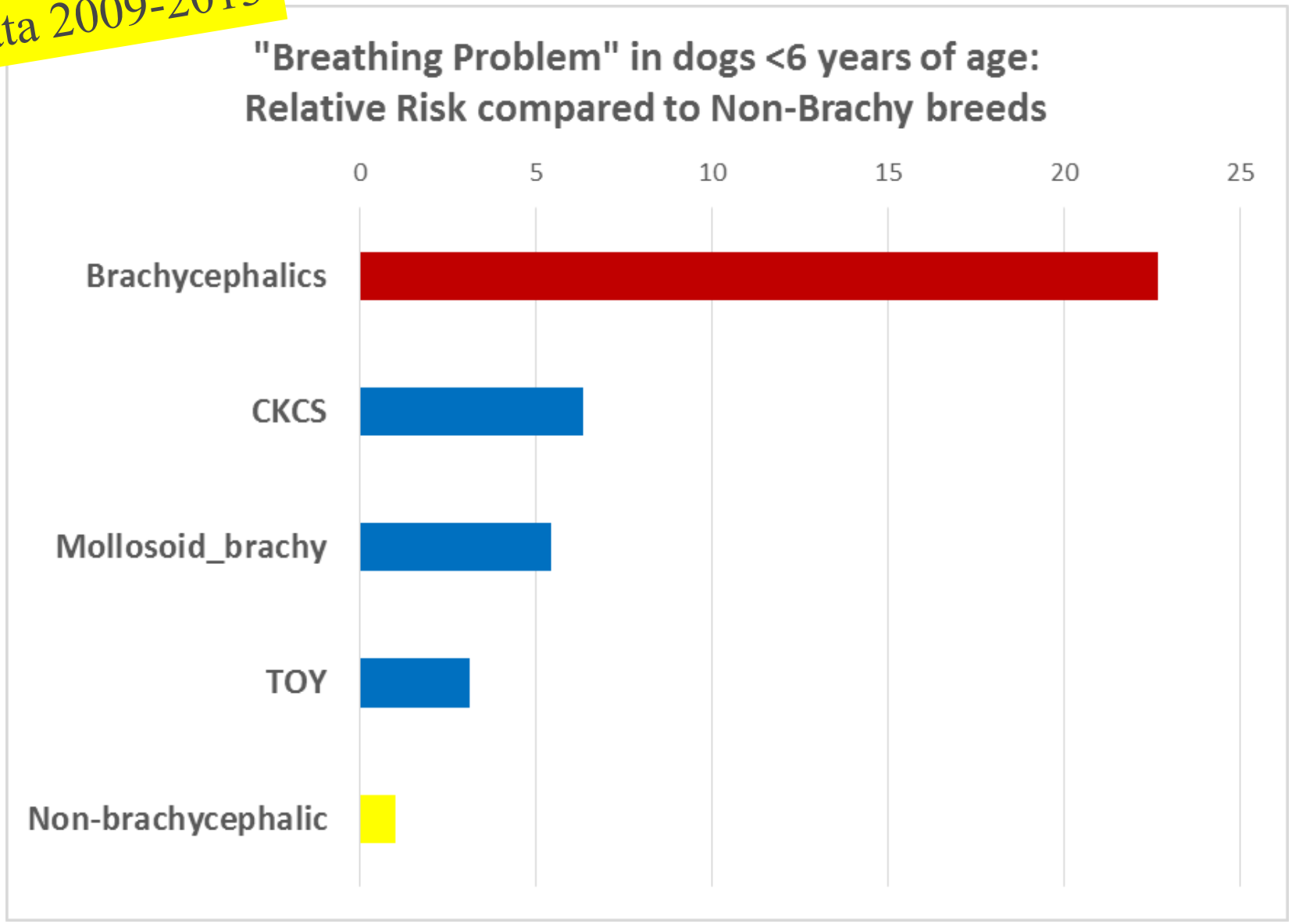
Agria Djurförsäkring

Data 2009-2013





Data 2009-2013



Agria
Djurförsäkring

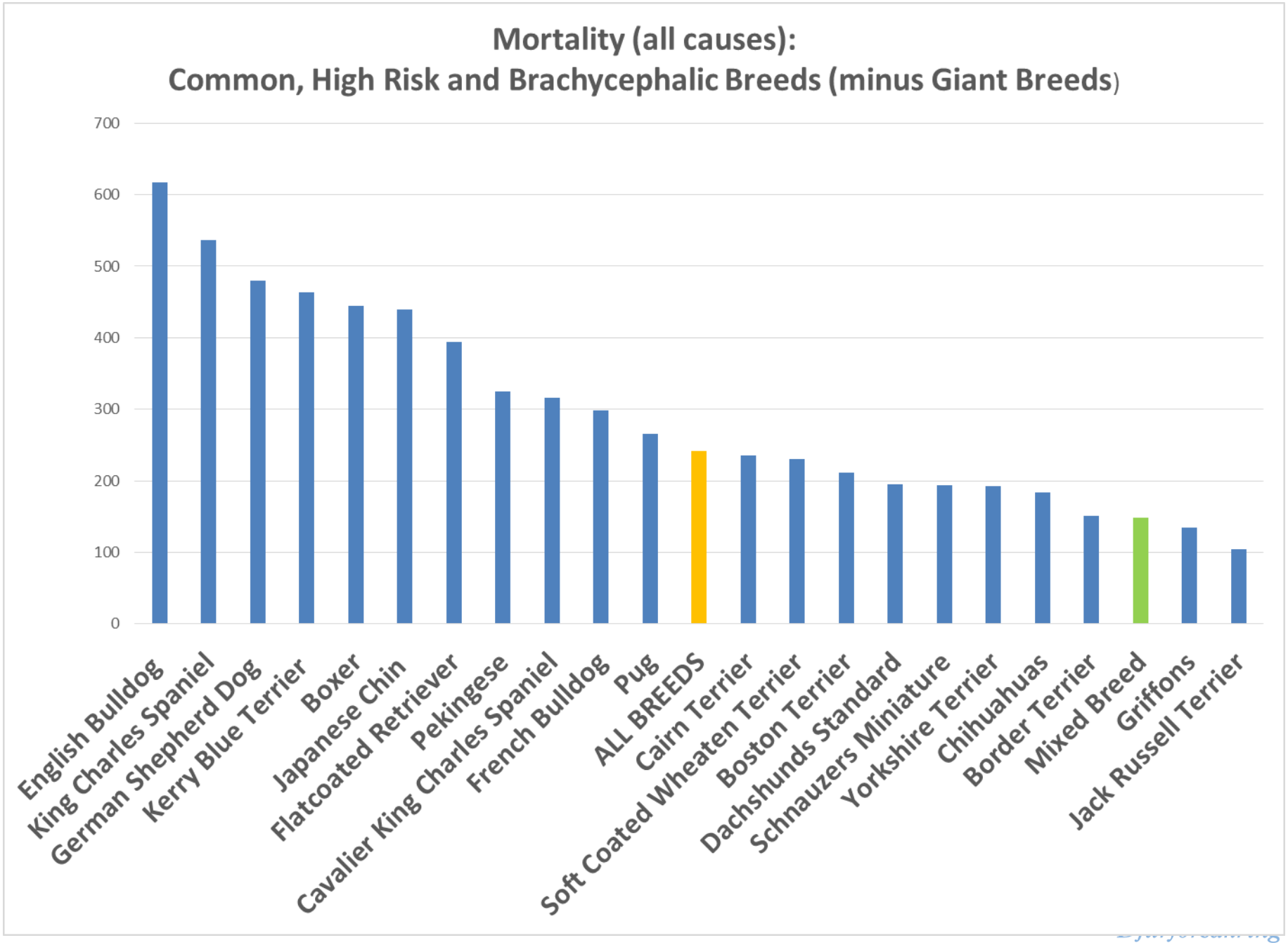
Data 2009-2013

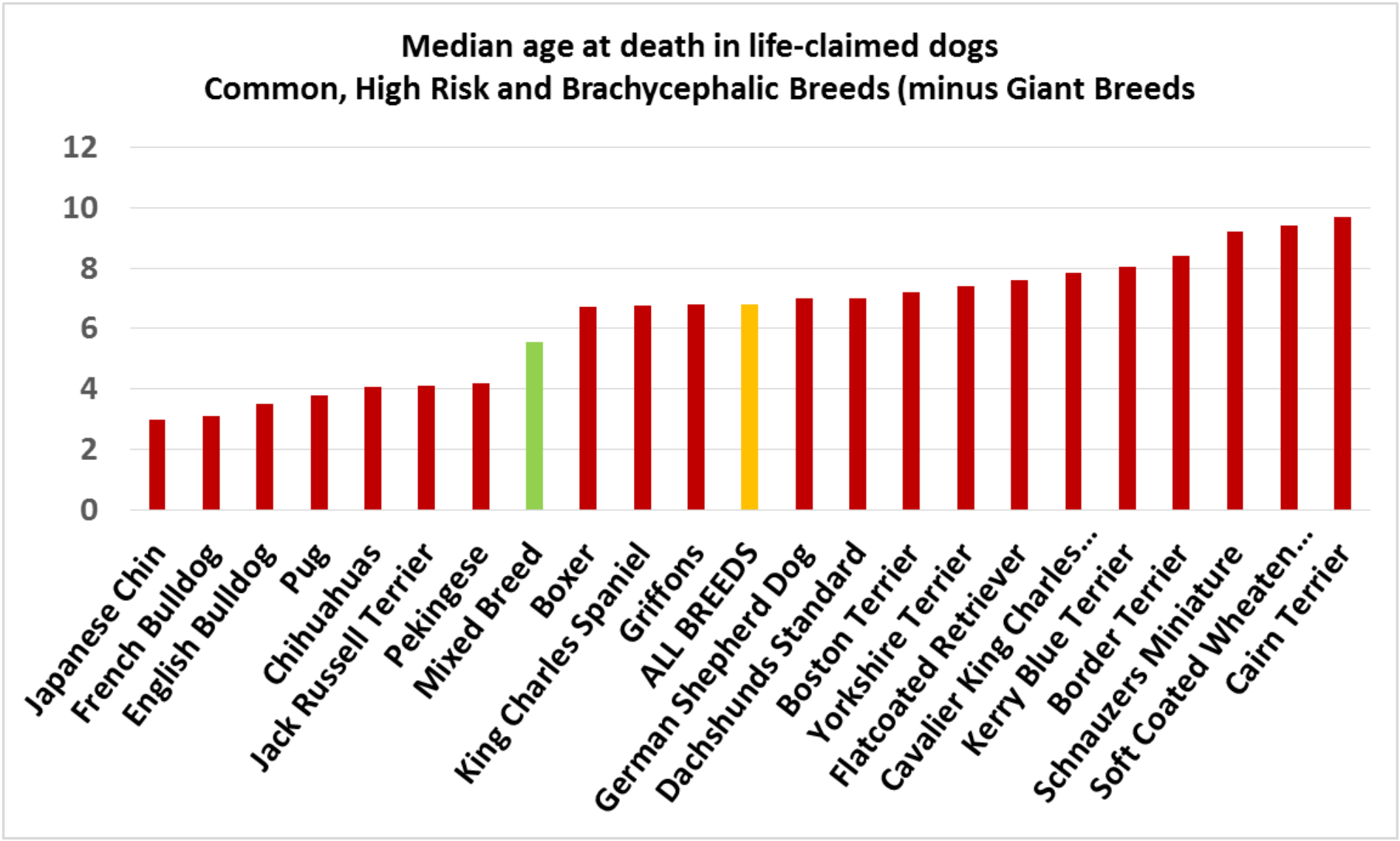
Upper Respiratory Claims with a Registration Number	
Cavalier King Charles Spaniel	96%
Chinese Crested Dog	92%
Boxer	90%
Tibetan Spaniel	90%
Boston Terrier	88%
Pug	88%
Griffons	83%
English Bulldog	76%
OTHER	74%
French Bulldog	74%
Yorkshire Terrier	71%
Pomeranian	66%
Chihuahuas	60%
Shih Tzu	54%

Agria Djurförsäkring

Mortality … and age at death

Agria Djurförsäkring


Mortality (all causes):
Common, High Risk and Brachycephalic Breeds (minus Giant Breeds)
700
600
500
400
300
200
100
0
English Bulldog
King Charles Spaniel
German Shepherd Dog
Kerry Blue Terrier
Boxer
Japanese Chin
Flatcoated Retriever
Pekingese
Cavalier King Charles Spaniel
French Bulldog
Pug
ALL BREEDS
Cairn Terrier
Soft Coated Wheaten Terrier
Boston Terrier
Dachshunds Standard
Schnauzers Miniature
Yorkshire Terrier
Chihuahuas
Border Terrier
Mixed Breed
Griffons
Jack Russell Terrier



Agria Djurförsäkring

Summary Comments on Death Data

- English Bulldogs and Japanese Chin:
  - High mortality rate and die at younger than average ages

- Pugs and French Bulldogs:
  - slightly increased rate of mortality compared to All Breeds, markedly higher than Mixed Breeds, and die at younger than average ages.

- Boston Terriers:
  - have lower mortality rate than All Breeds, somewhat higher than mixed breeds and die at a relatively high age.

Agria Djurförsäkring



Cute and funny?
Ignoring a welfare issue?

Embedded in culture or mindsets – 'normal'
Maybe it is time to change?

What is **'okay'** in terms of levels / types of disease?

What is your role personally – and professionally?

How do we proceed with **respect, compassion and cooperation?**