



Agria 
Pet Insurance

Agria Breed Stats

Brechyconference

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Agria 
Djurförsäkring



Hot Topics on DogWellNet.com

Brachycephalics

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



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* ...

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>

Background to Agria data: Collaboration since 1994

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

Background to Agria data: Collaboration since 1994

Agria Animal Insurance

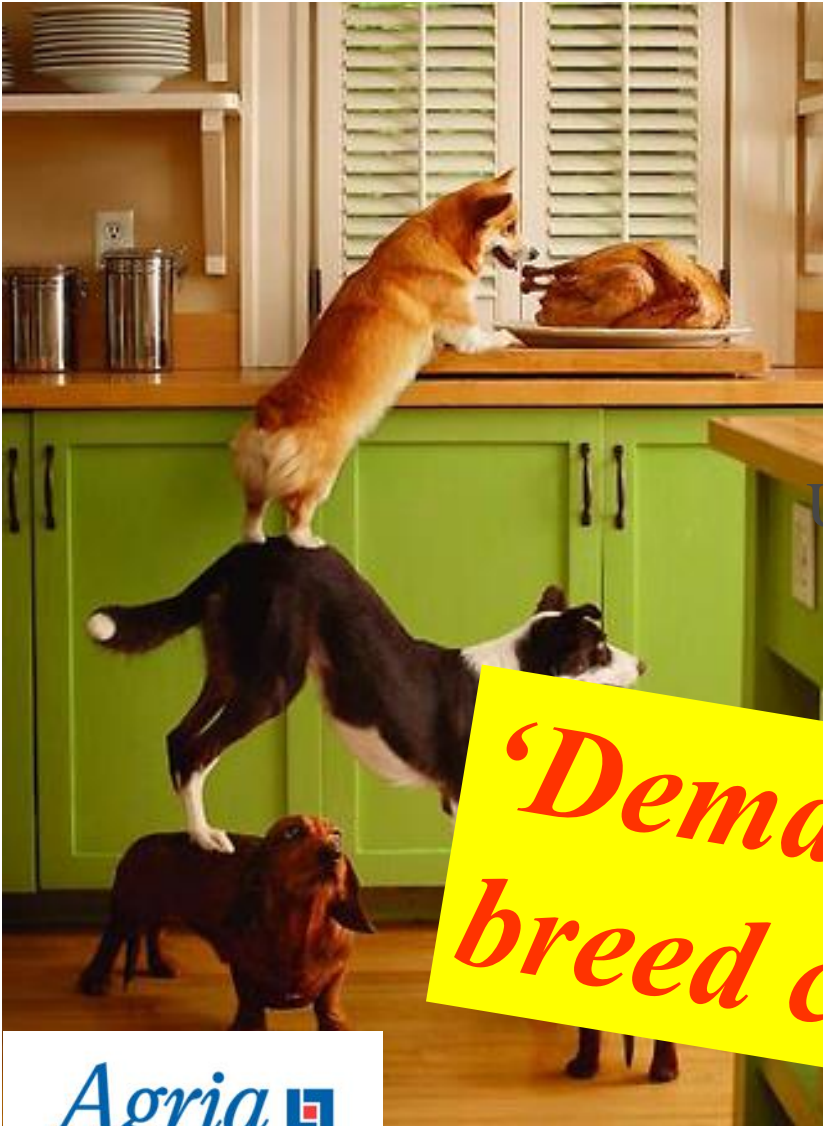
SLU –
Swedish University of Agricultural Sciences

University of Guelph, Canada

Swedish Kennel Club (SKK)

***‘Demanded’ by the
breed clubs/ SKK !***

Partnership !



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

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 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 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 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 important for the breed's welfare

- **Breathing**

- **1**

**Agria statistics are part of
the 'Big Picture'**

Population Statistics

Interpretation:

number sick or number dead

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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?

Updates: 2006-2011

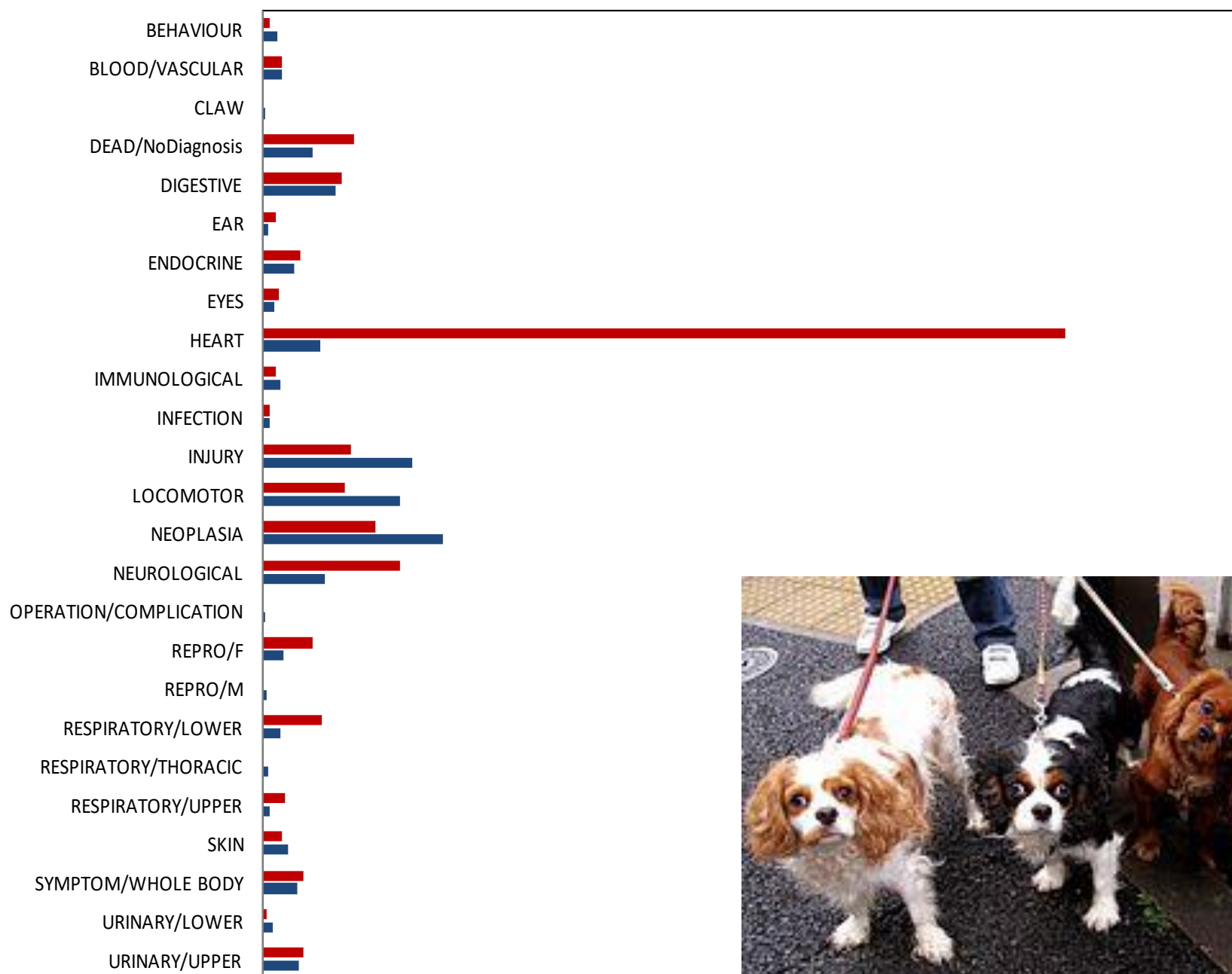
- 6 years of data
 - Over 120 breeds
 - Comparative: **Breed: All Breeds**

Examples of Dog Updates...



General Causes of Death : Rates in 2003/06

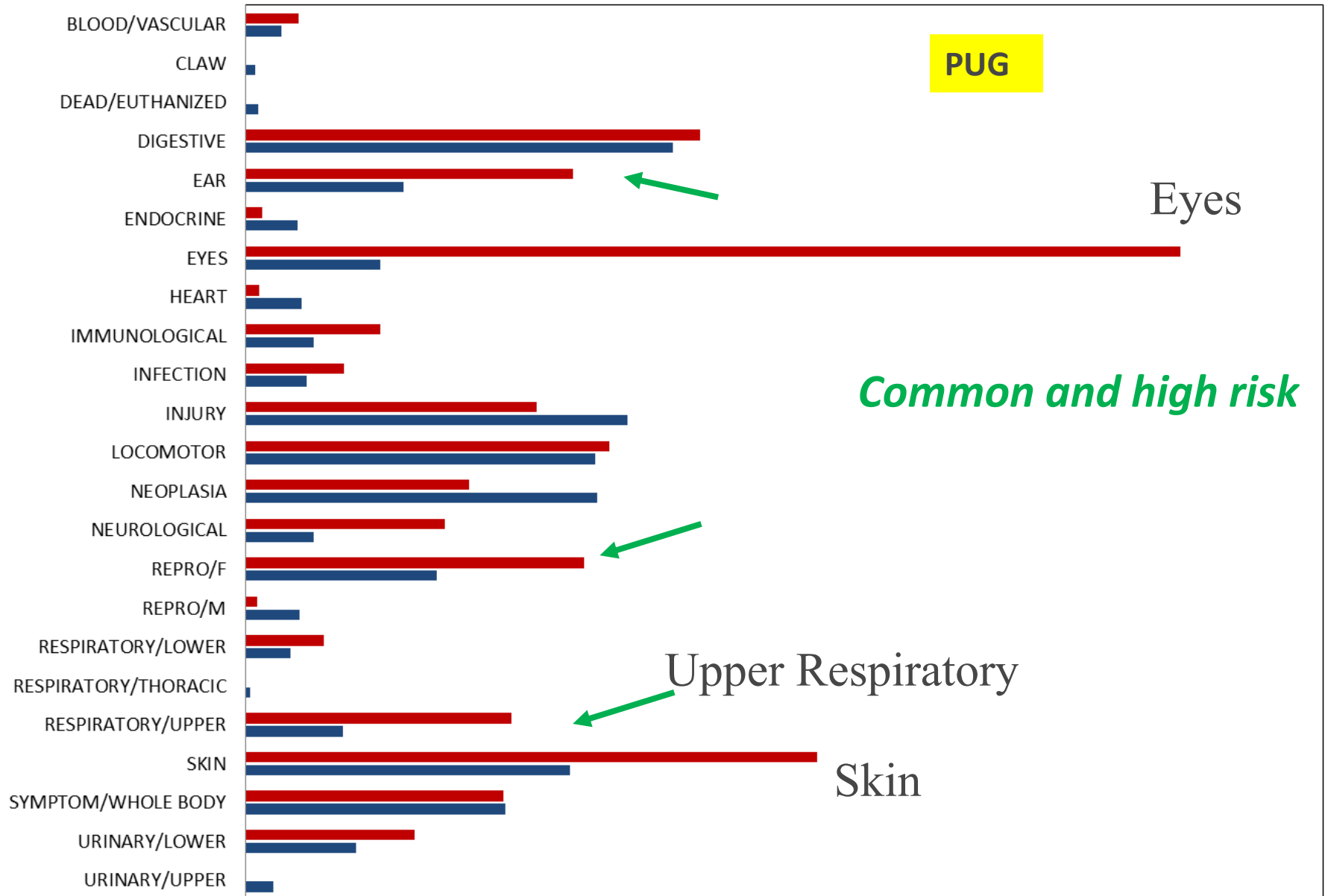
■ Cavalier King Charles Spaniel



General Causes of VCEs : Rates in 2006-2011

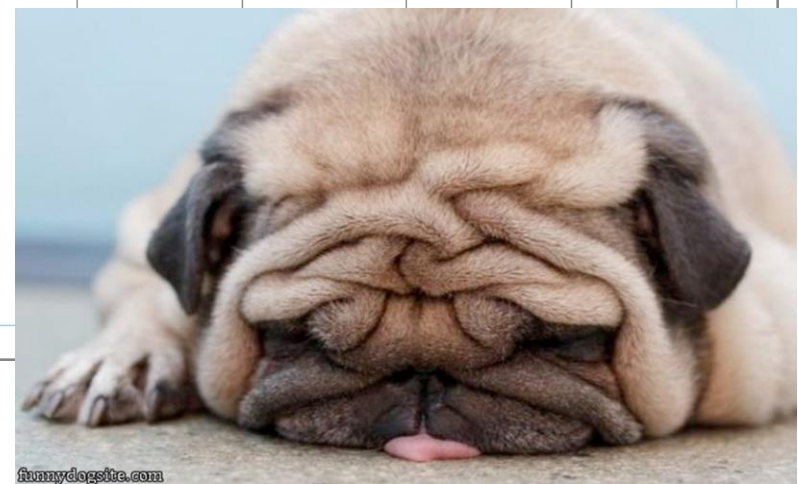
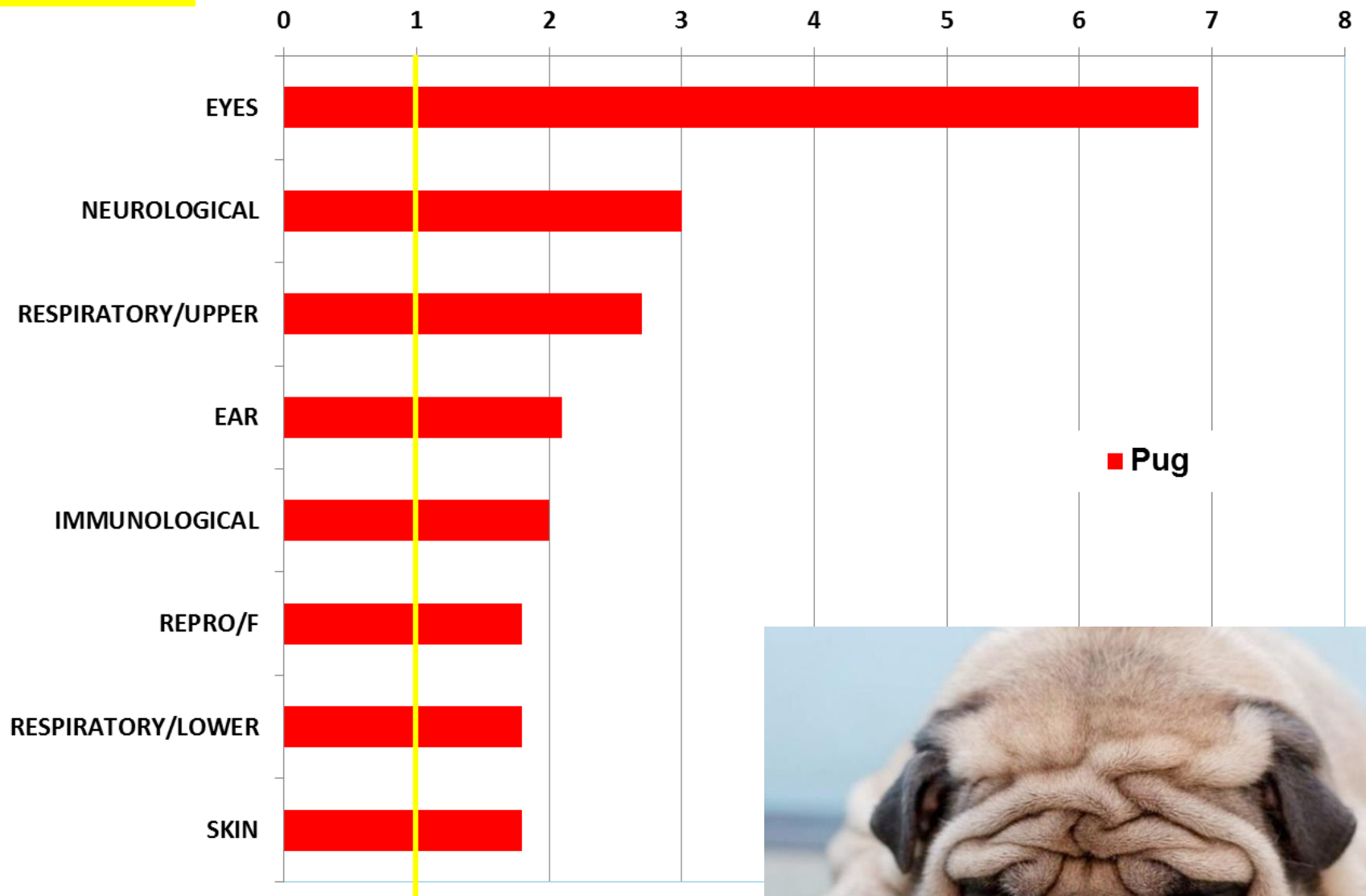
■ Pug

■ ALL BREEDS



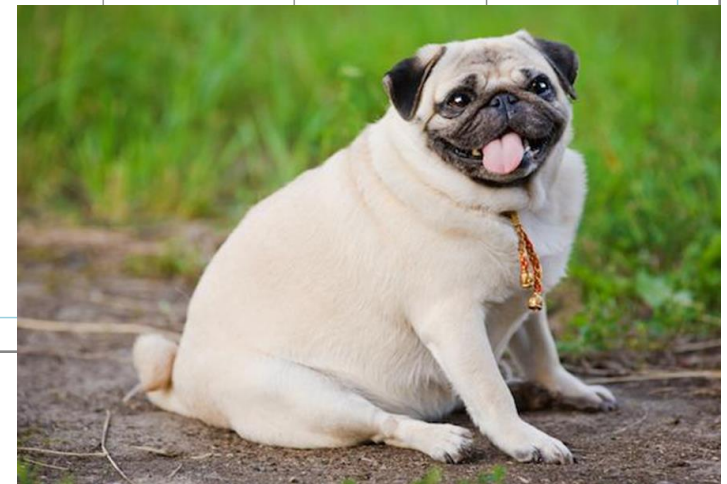
General Categories

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

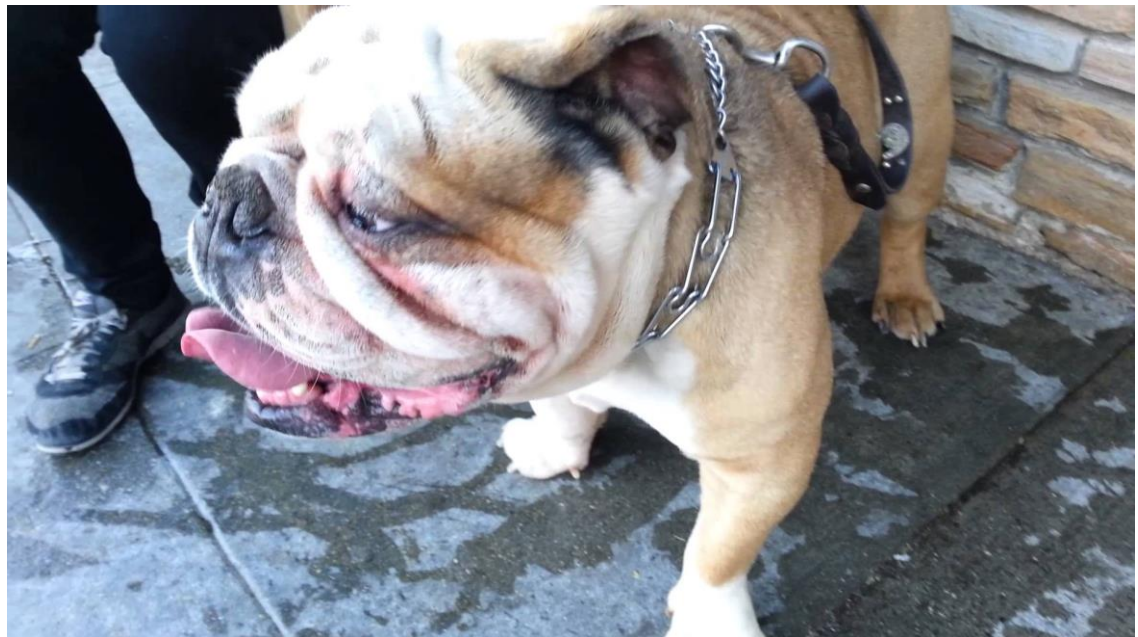
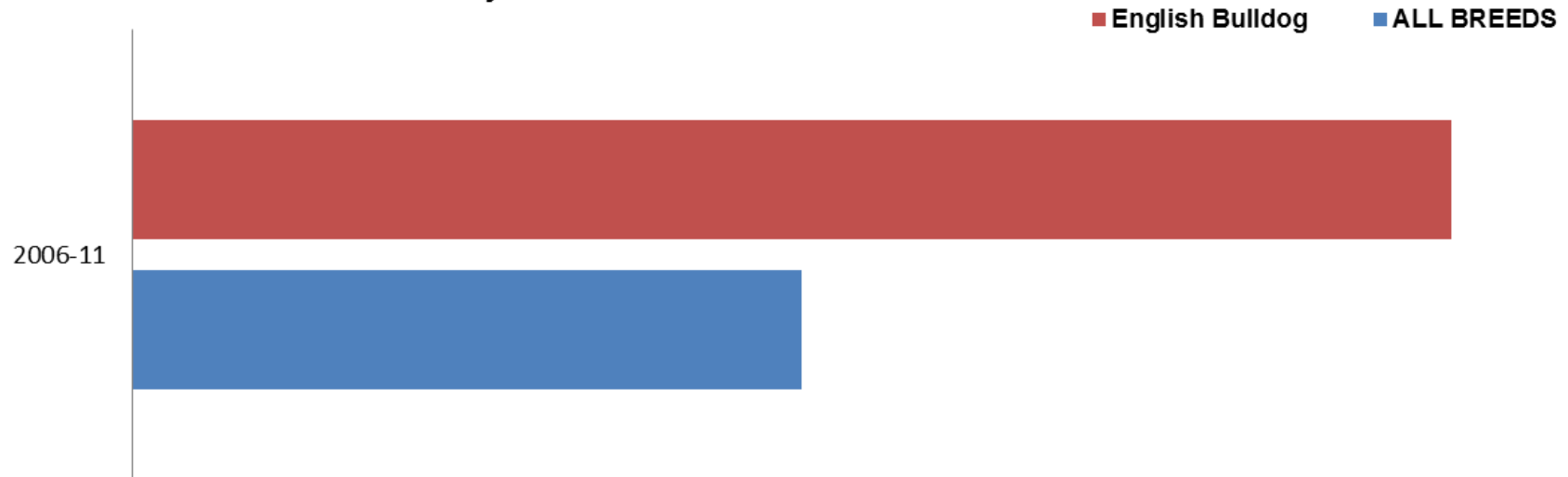


More Specific Diagnoses

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



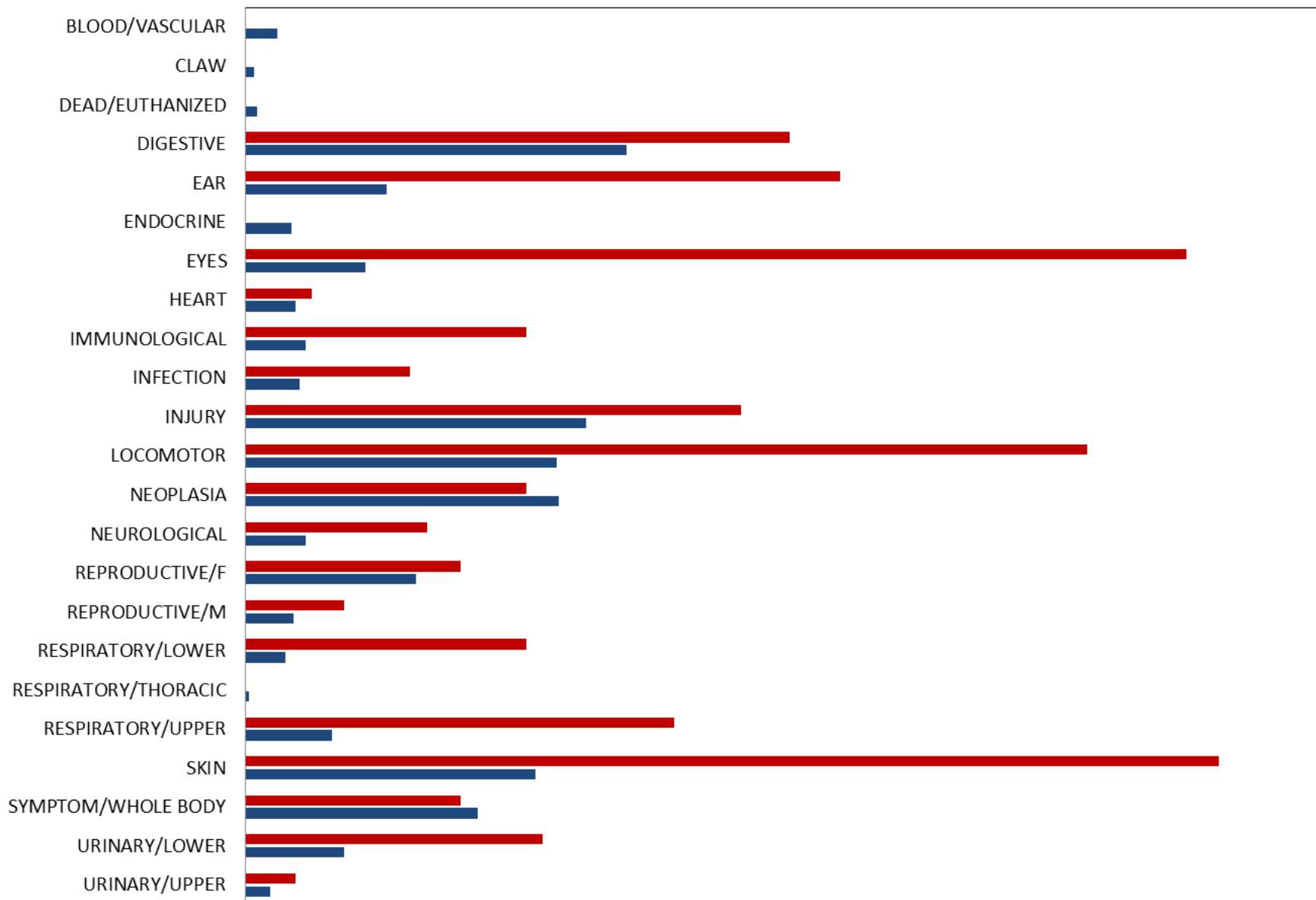
Overall Rates of Veterinary Care 2006-2011



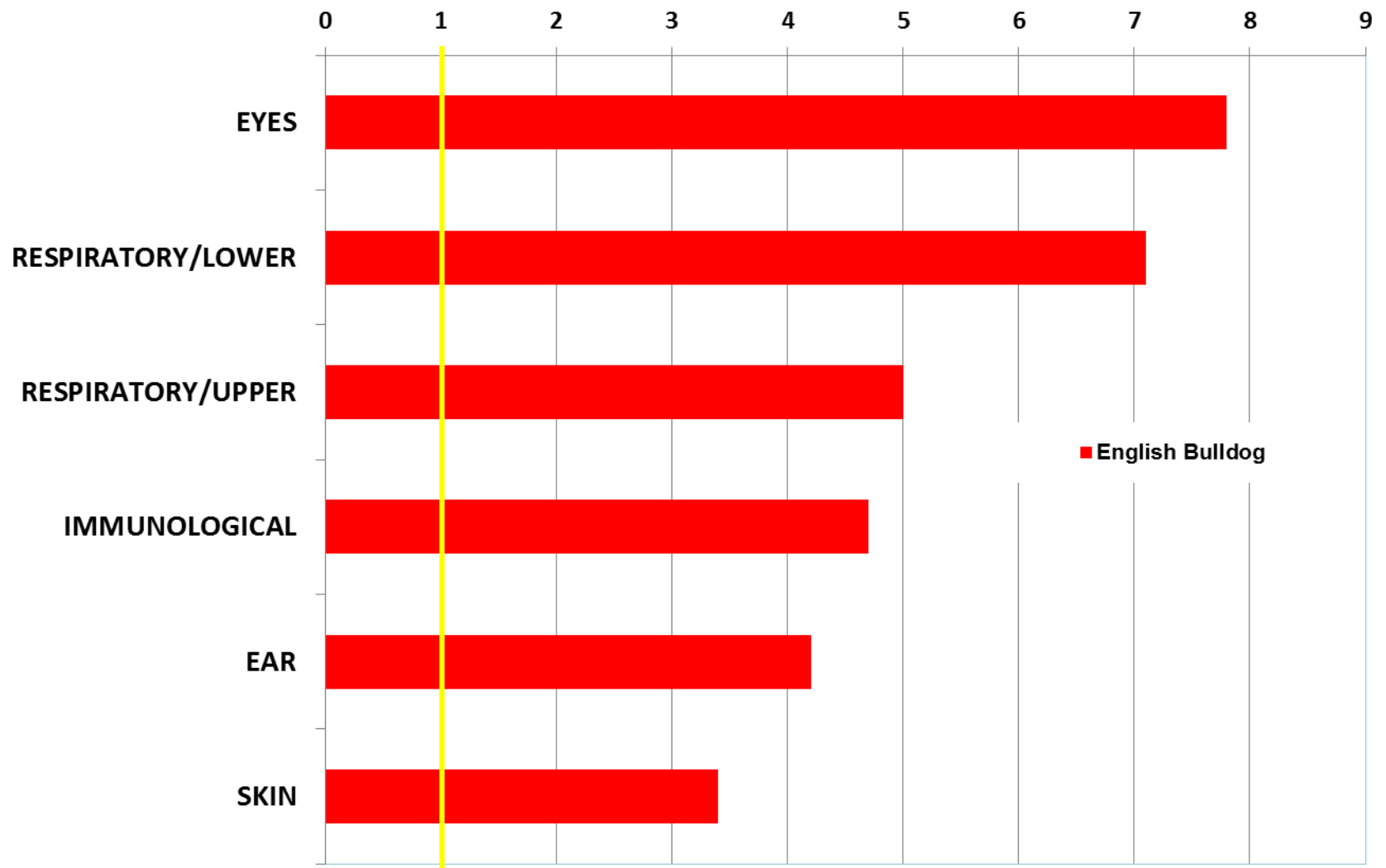
General Causes of VCEs : Rates in 2006-2011

■ English Bulldog

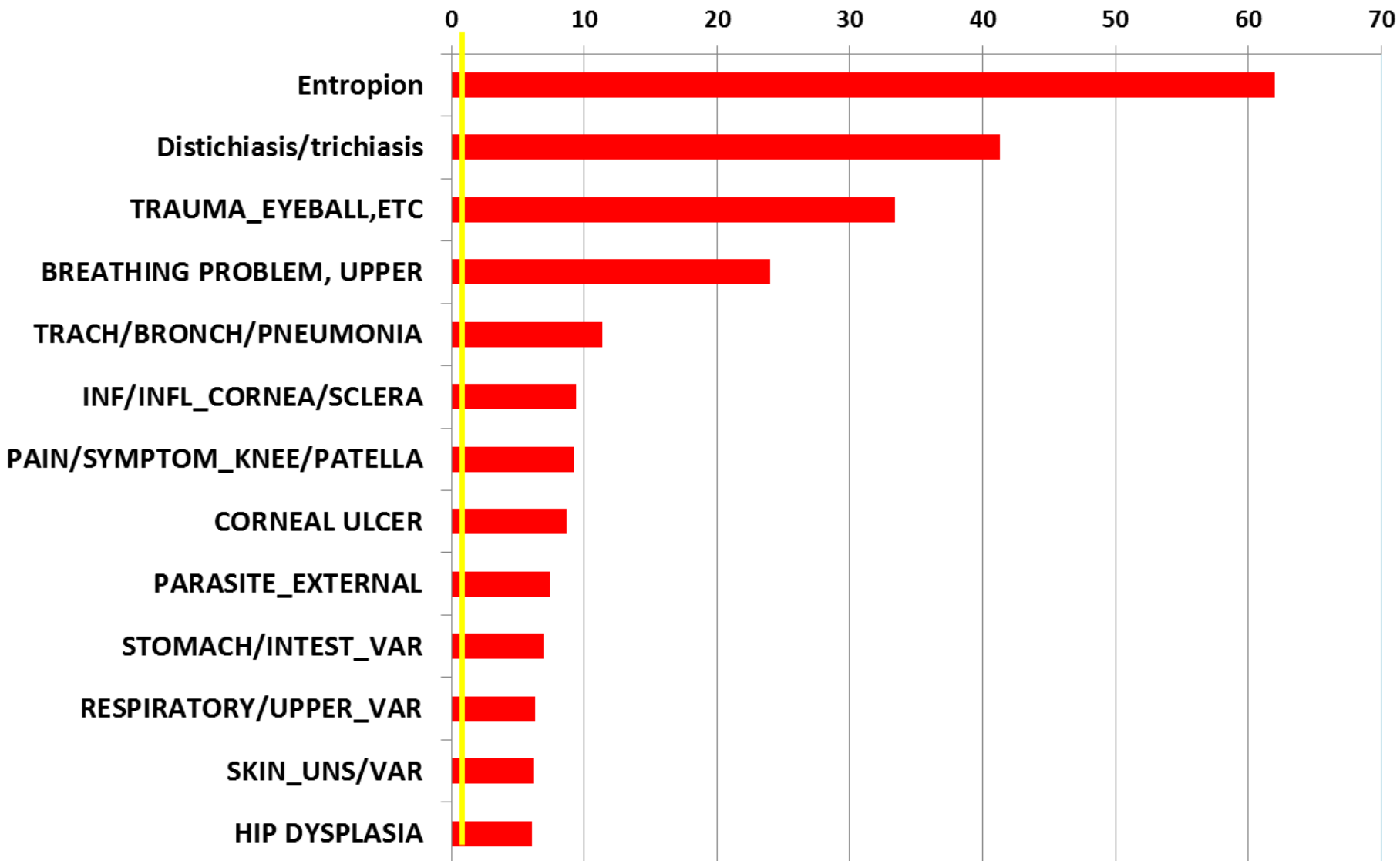
■ ALL BREEDS



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



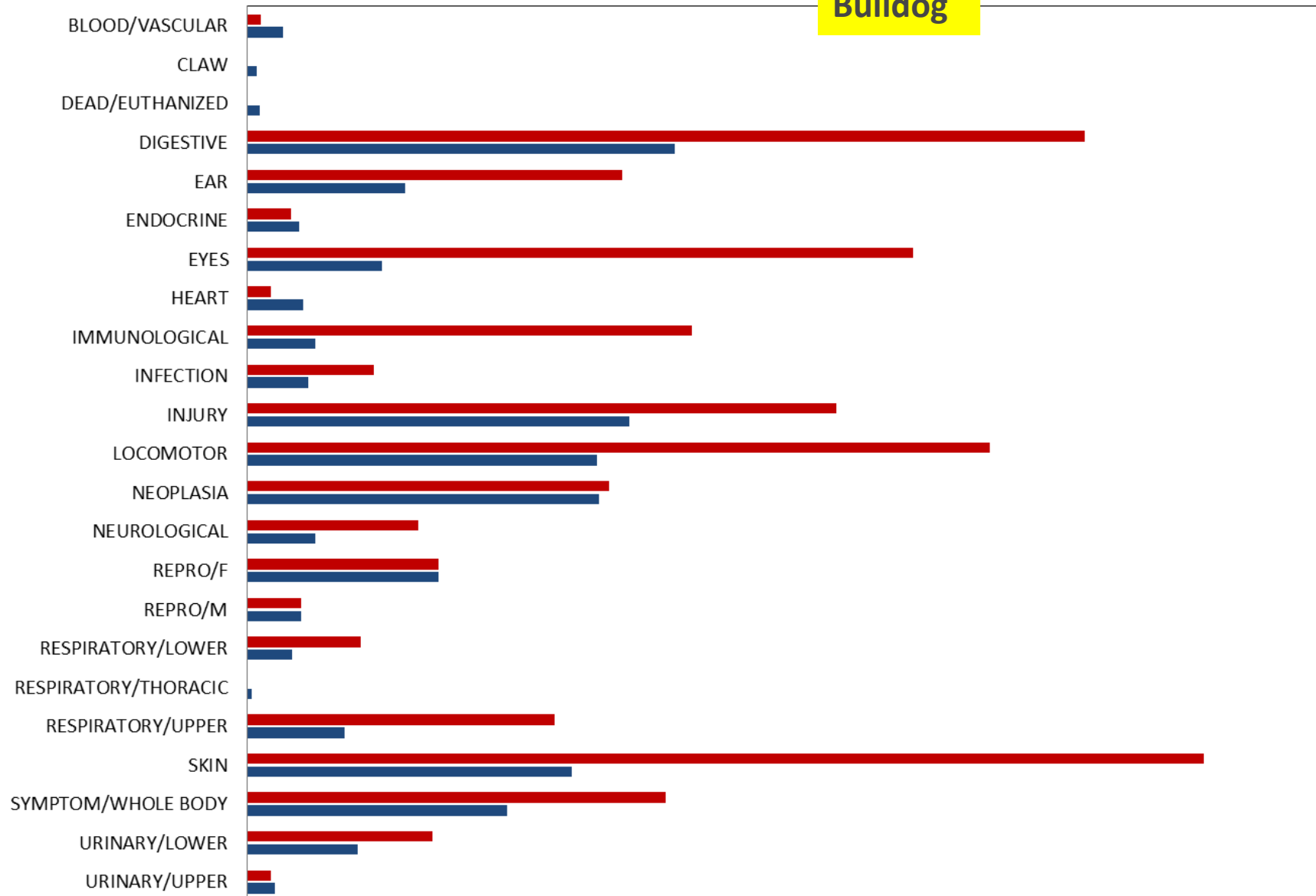
Specific Causes of VCEs Ordered by Relative Risk: English Bulldog compared to All Breeds 2006-2011



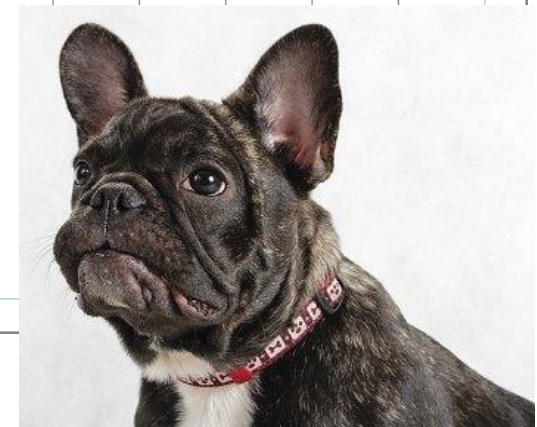
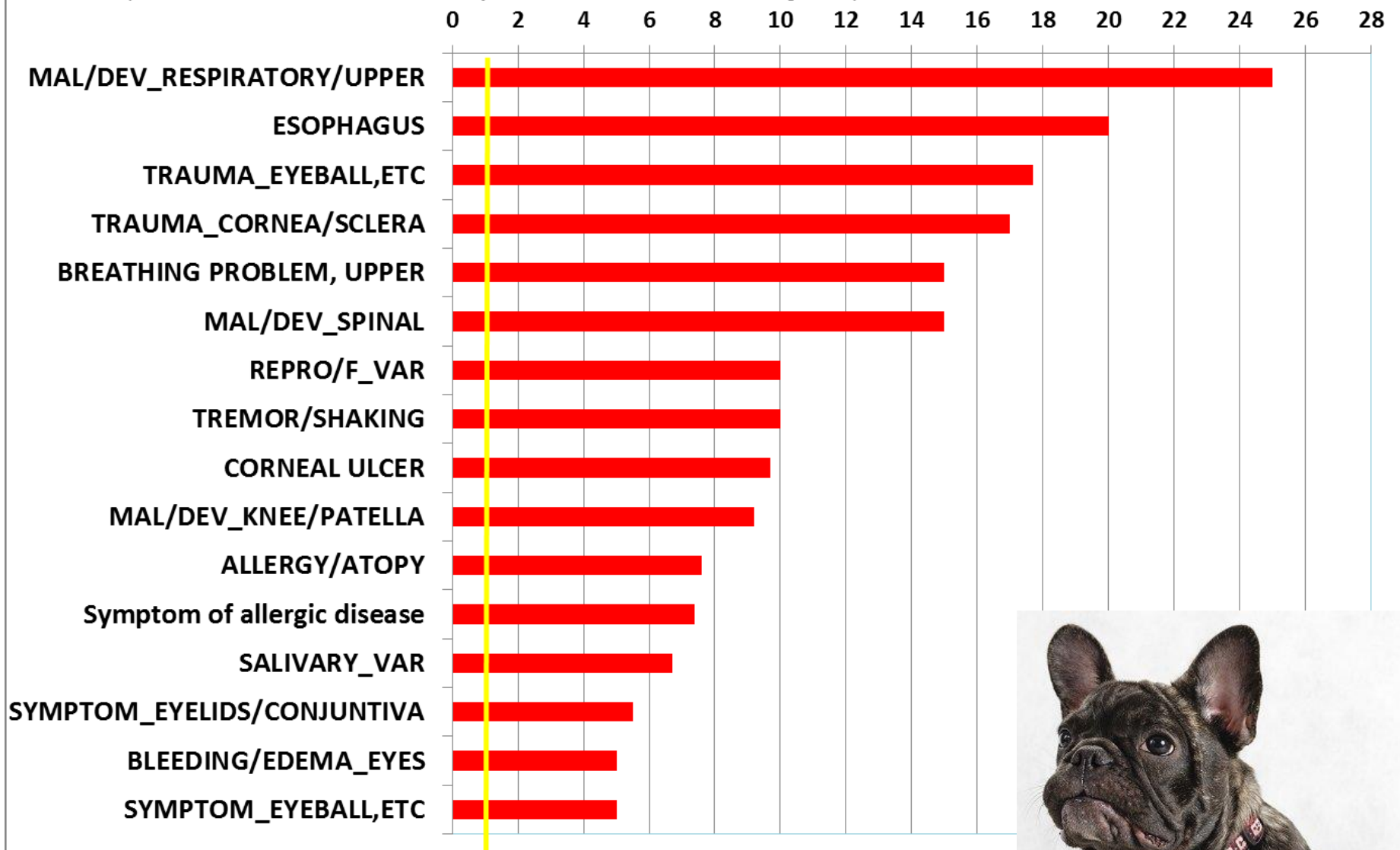
General Causes of VCEs : Rates in 2006-2011

**French
Bulldog**

■ ALL BREEDS



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



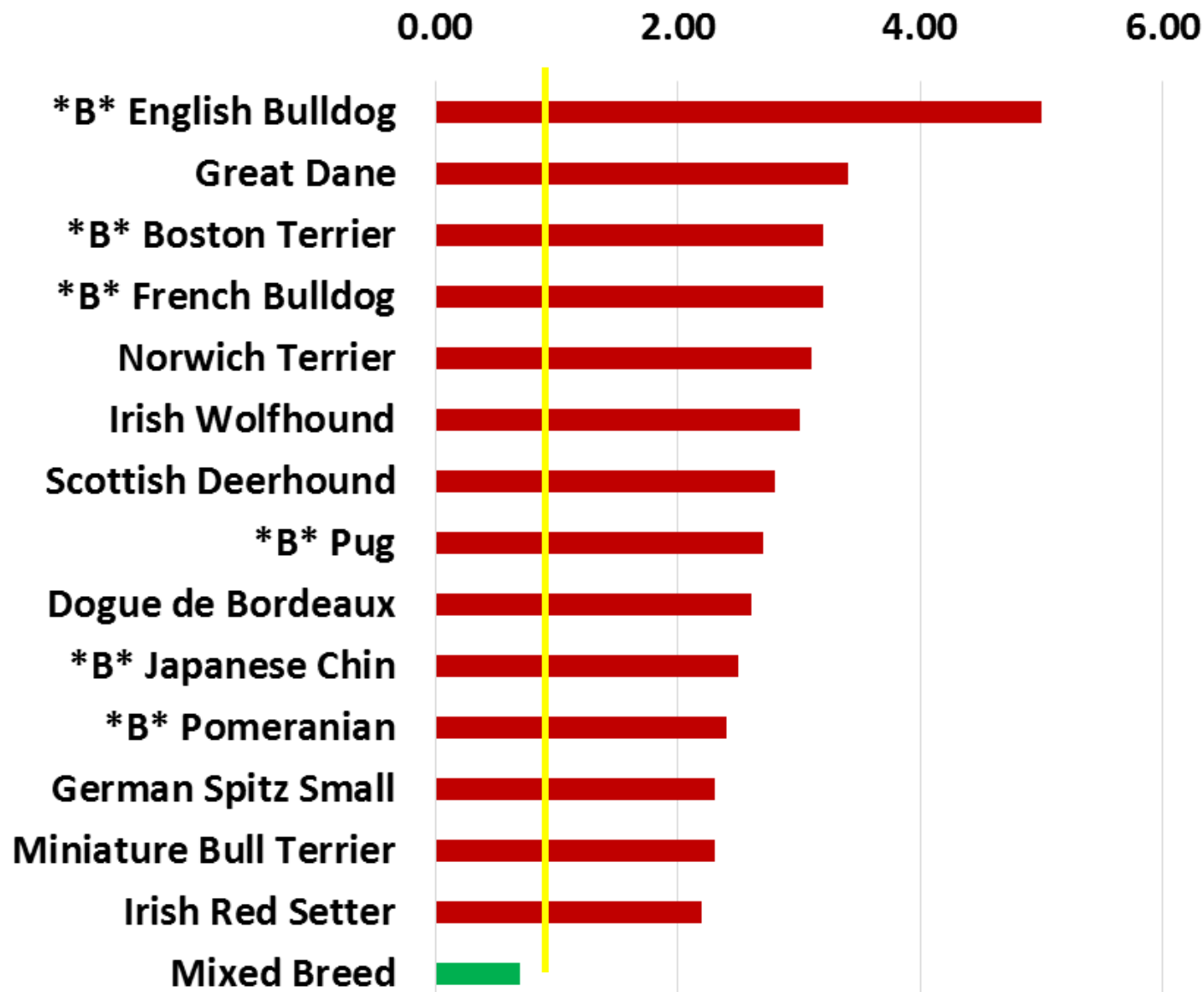
Overall – similar risk... but higher for certain conditions



■ Griffons

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

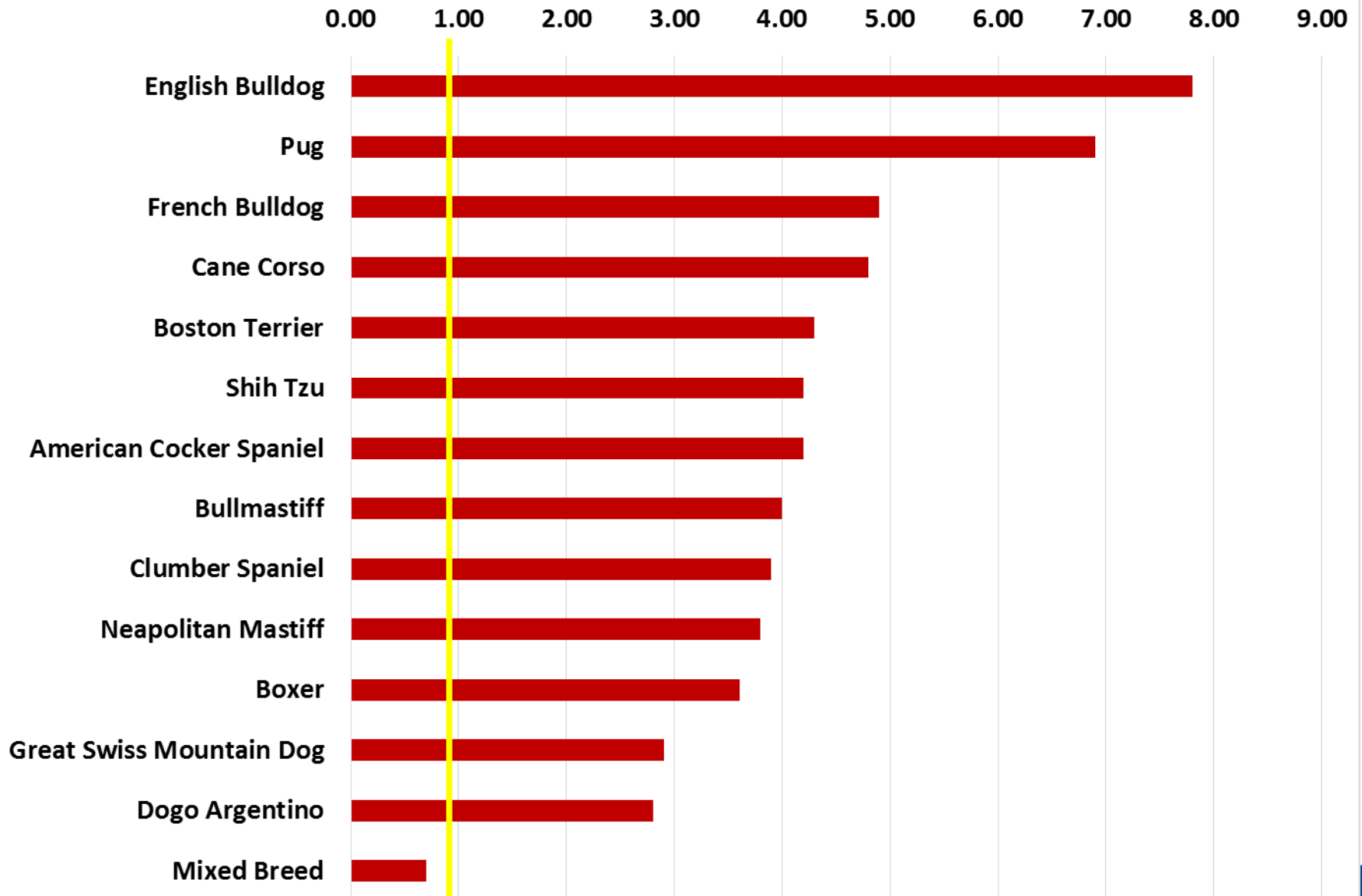
RESPIRATORY/UPPER: Relative Risk Compared to All Breeds



**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

Veterinary Care EYES: Risk Compared to All Breeds



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

<u>Brachys</u>	<u>RANK</u>
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

Data 2009-2013

RR for Corneal Ulcer

0.0 2.0 4.0 6.0 8.0 10.0 12.0

Brachycephalics



CKCS



Mollosoids-Brachy



TOY

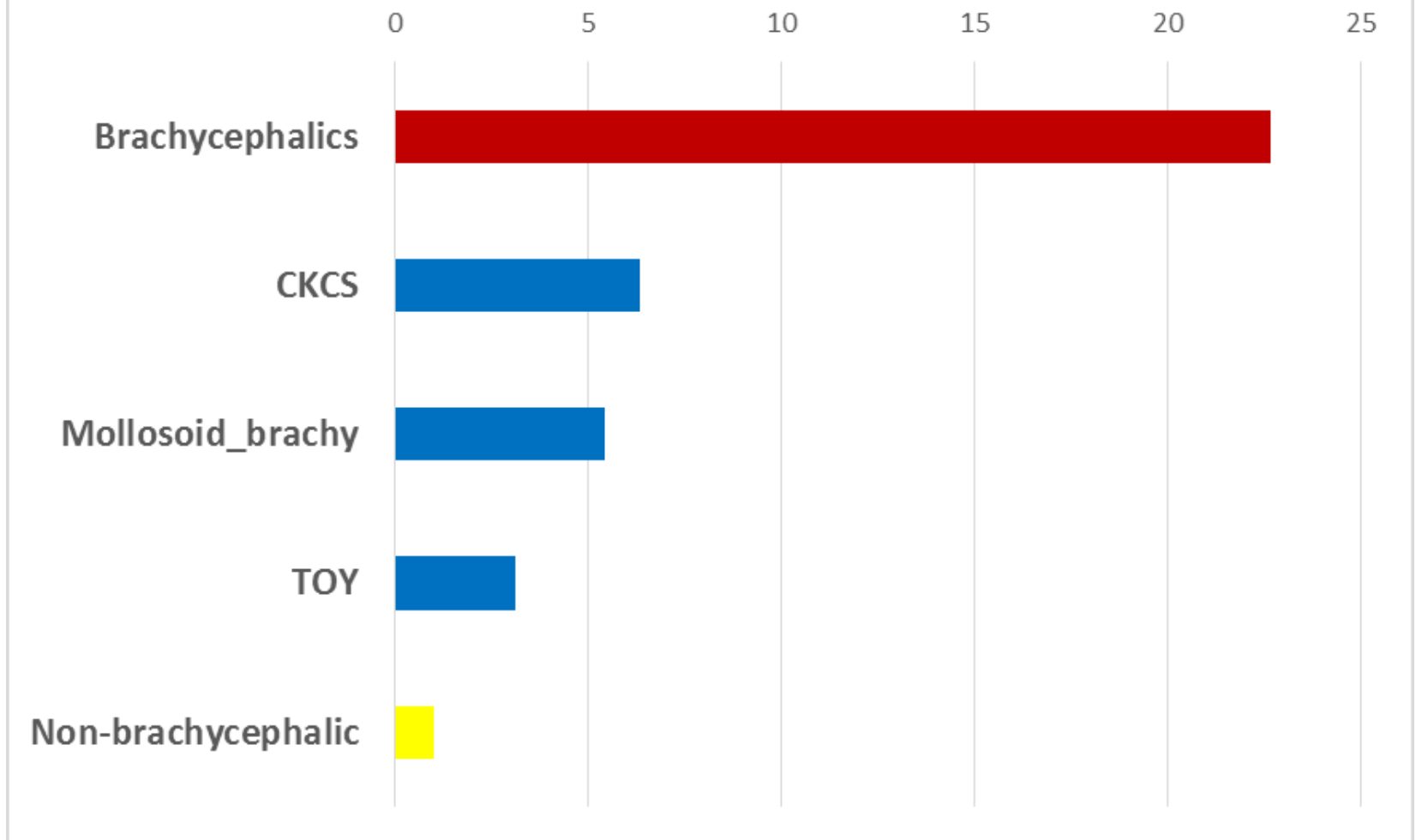


NON-Brachy



Data 2009-2013

**"Breathing Problem" in dogs <6 years of age:
Relative Risk compared to Non-Brachy breeds**

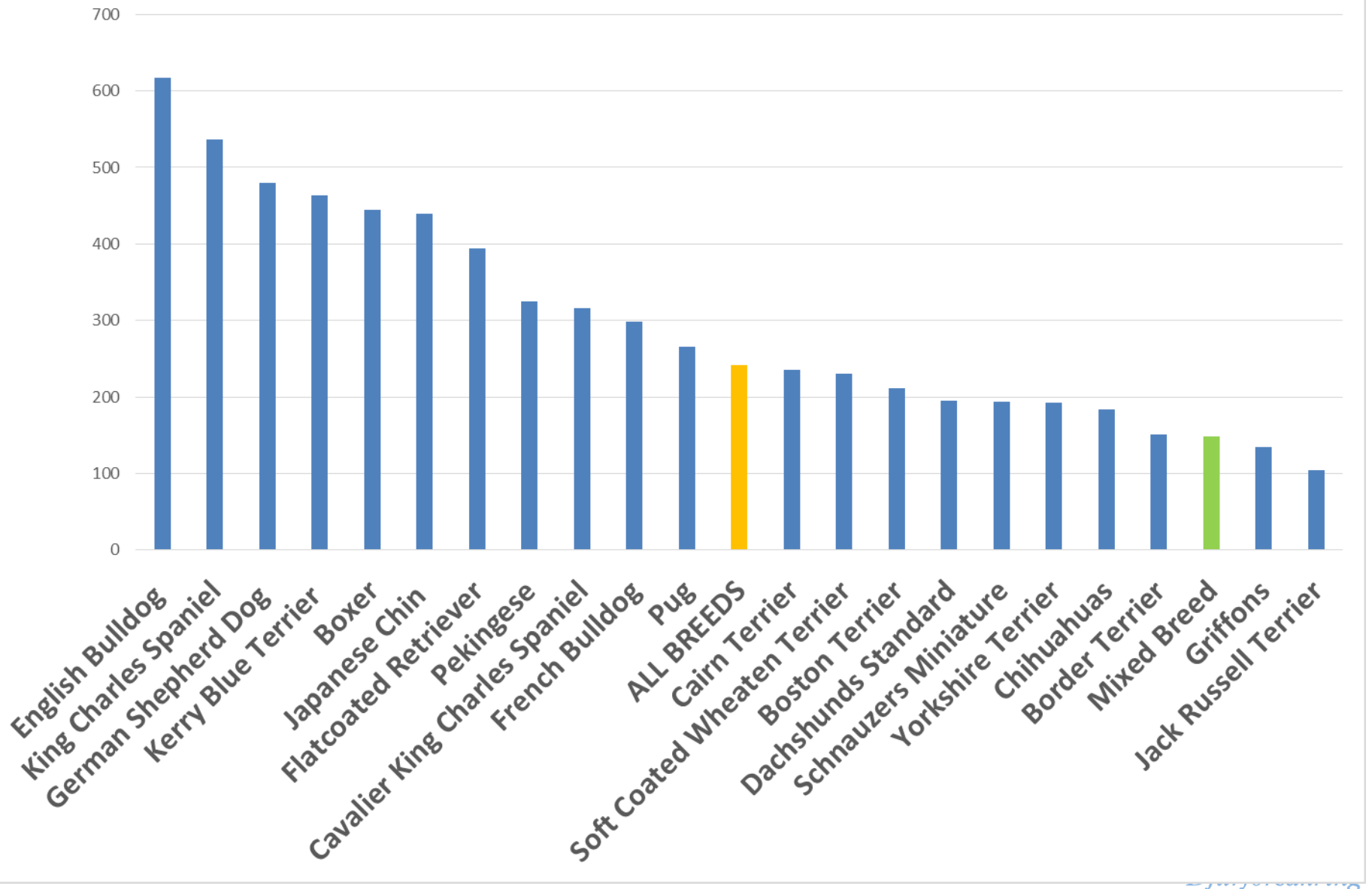


Data 2009-2013

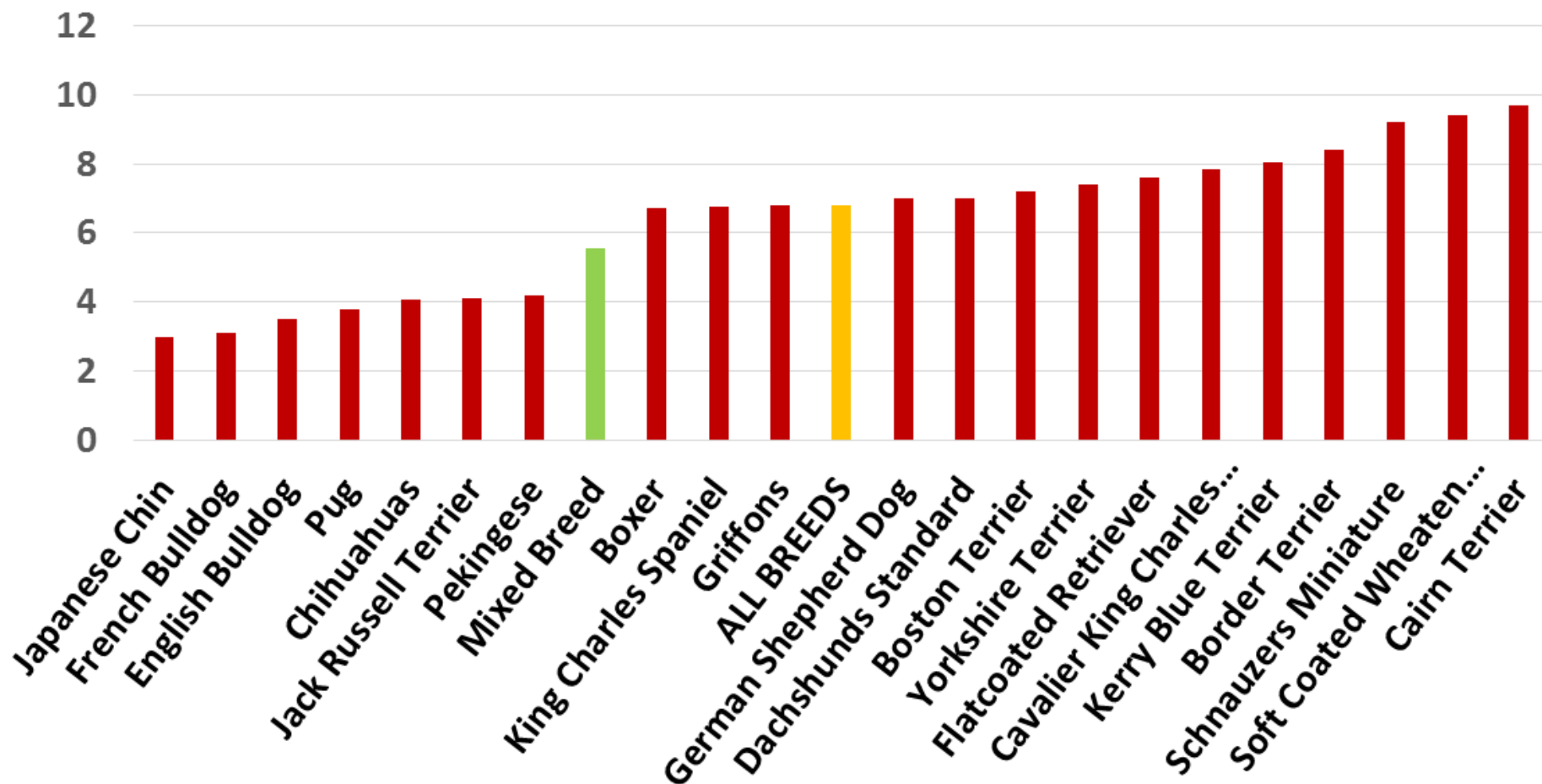
Upper Respiratory Claims with a Registration Number	
Cavalier King Charles Spaniel	96%
Chinese Crested Dog	92%
Boxer	90%
Tibetan Spaniel	90%
Boston Terrier	88%
Pug	88%
Griffons	83%
English Bulldog	76%
OTHER	74%
French Bulldog	74%
Yorkshire Terrier	71%
Pomeranian	66%
Chihuahuas	60%
Shih Tzu	54%

Mortality ... and age at death

Mortality (all causes): Common, High Risk and Brachycephalic Breeds (minus Giant Breeds)

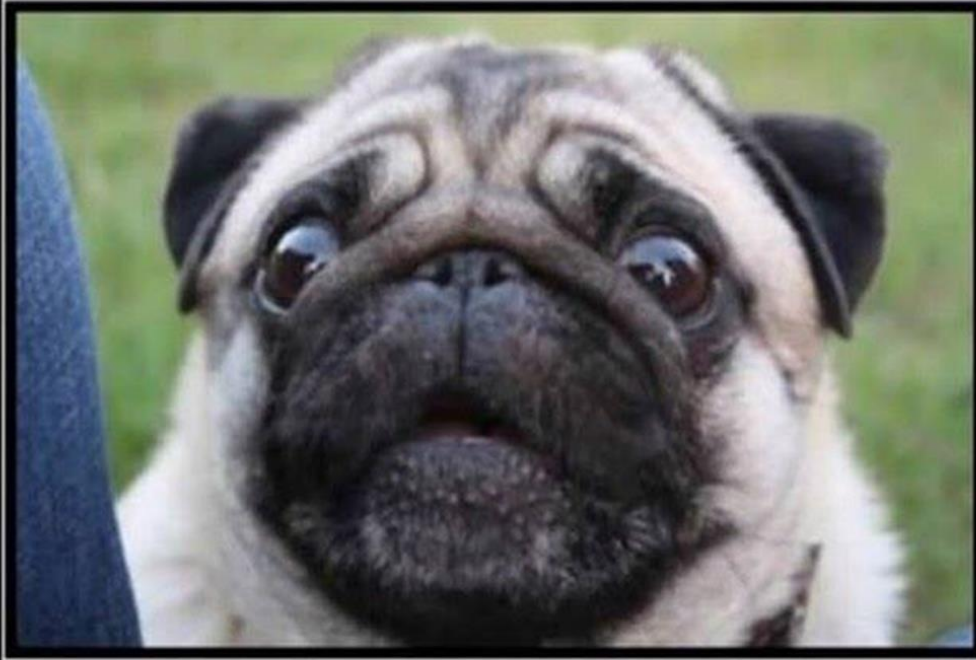


Median age at death in life-claimed dogs Common, High Risk and Brachycephalic Breeds (minus Giant Breeds)



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.



EXERCISE?

I thought you said "extra fries"

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?**



Djurforsäkring