

Agria
Pet Insurance

Agria Breed Stats

Brechyconference

Brenda Bonnett, DVM, PhD

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.



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



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...

Agria statistics are part of the Big Picture, Conditions recognized by the public



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)



- 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**

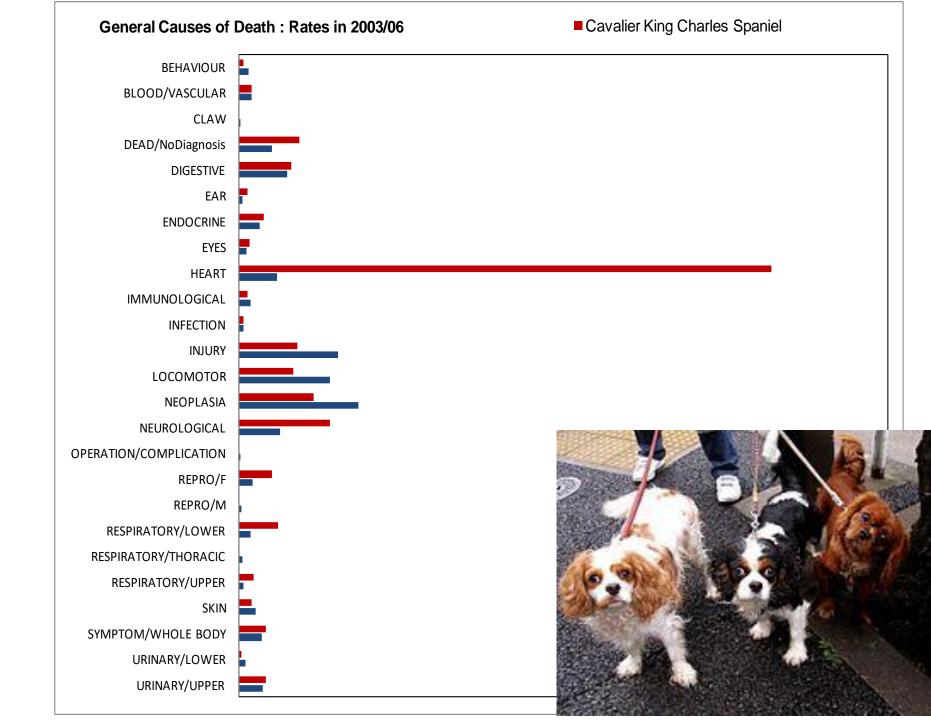


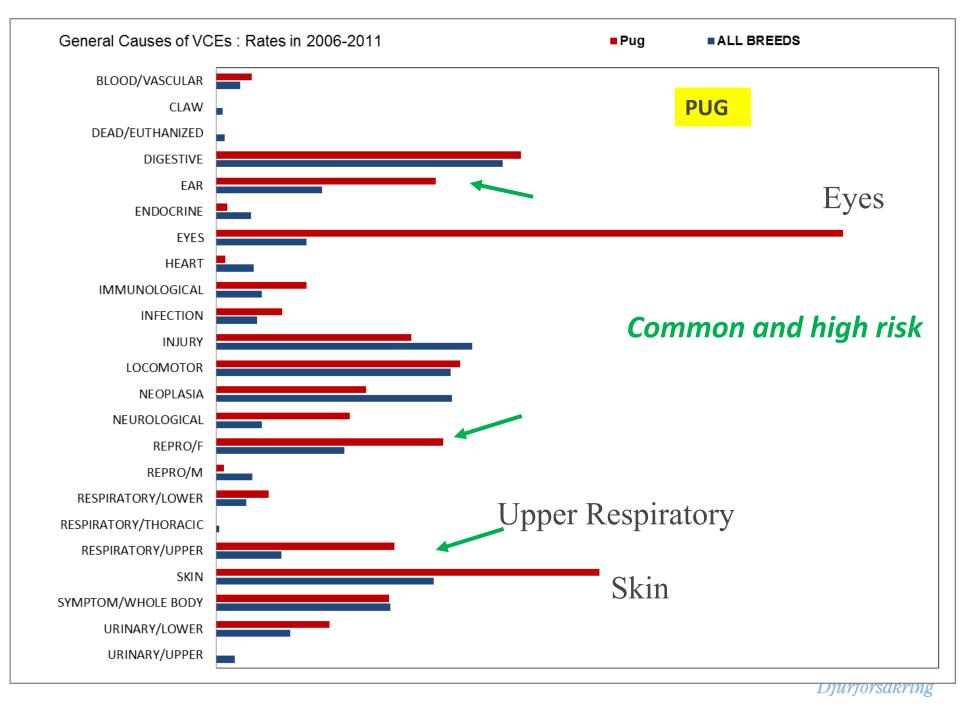


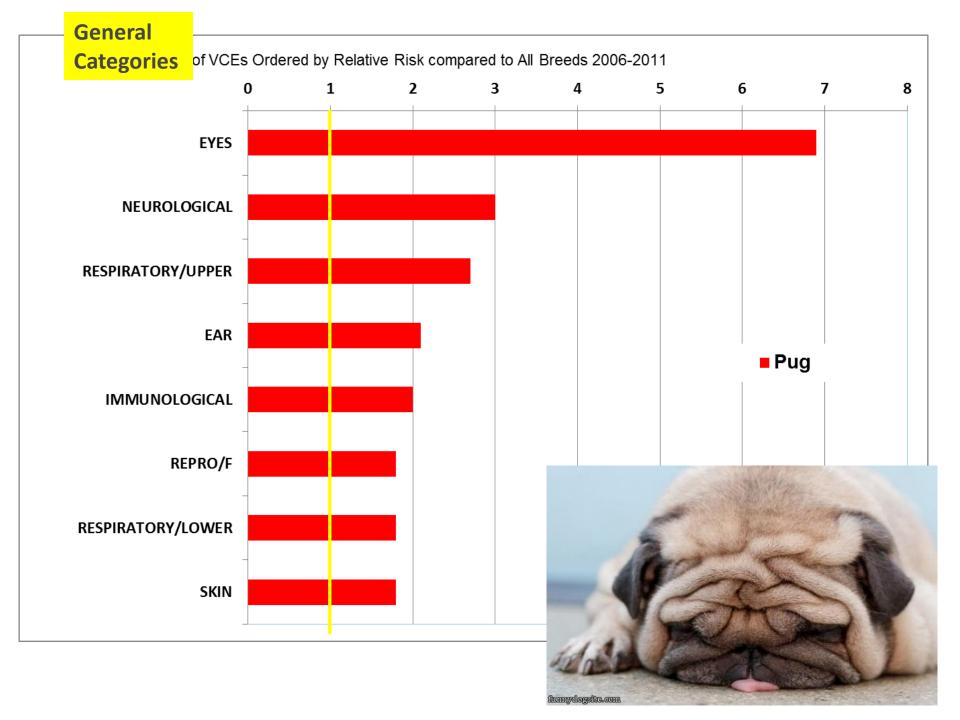
Examples of Dog Updates...

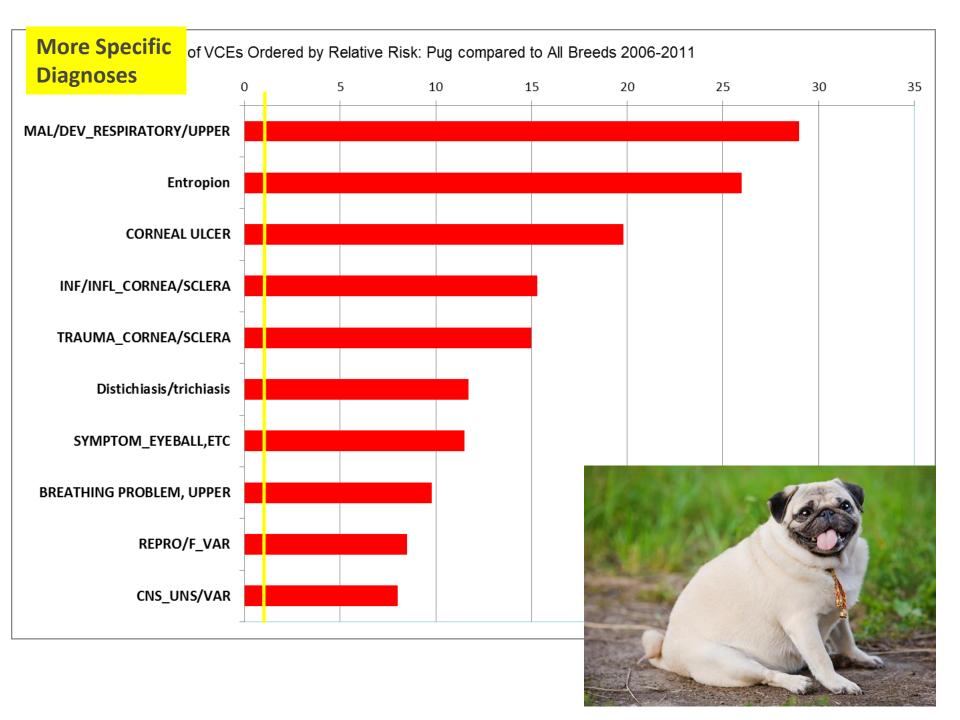


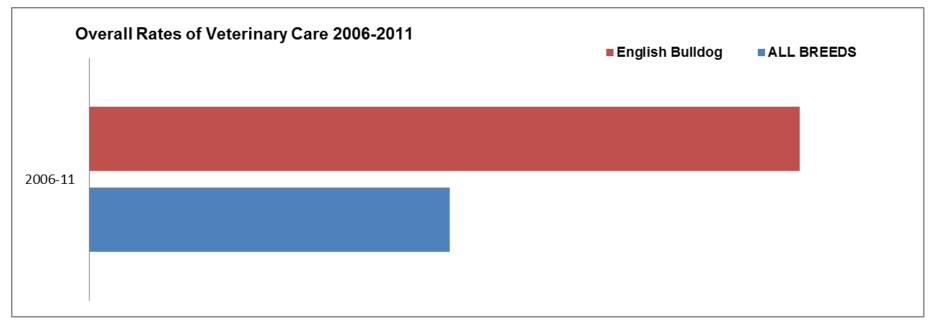




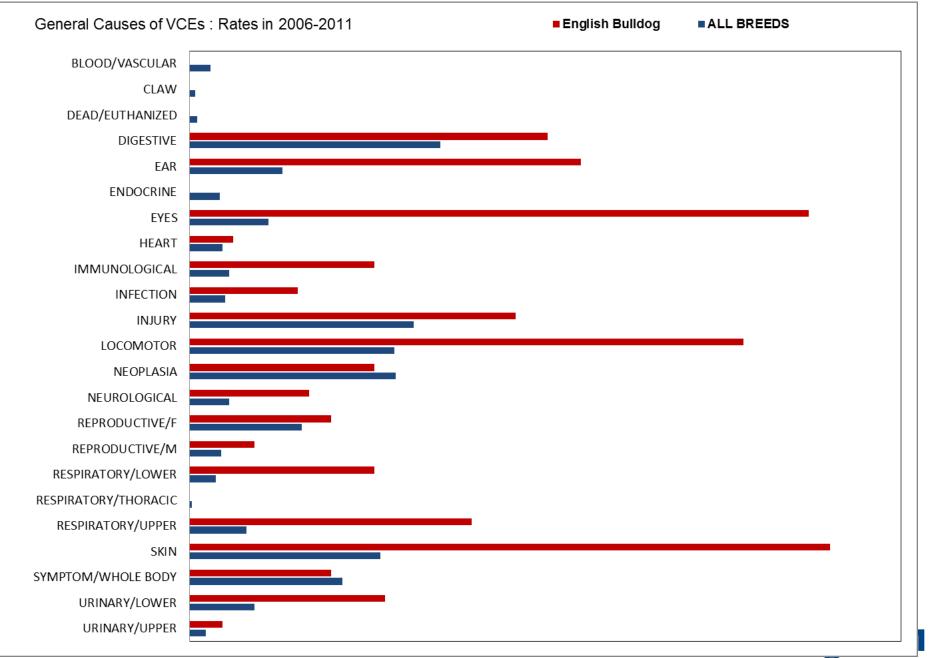


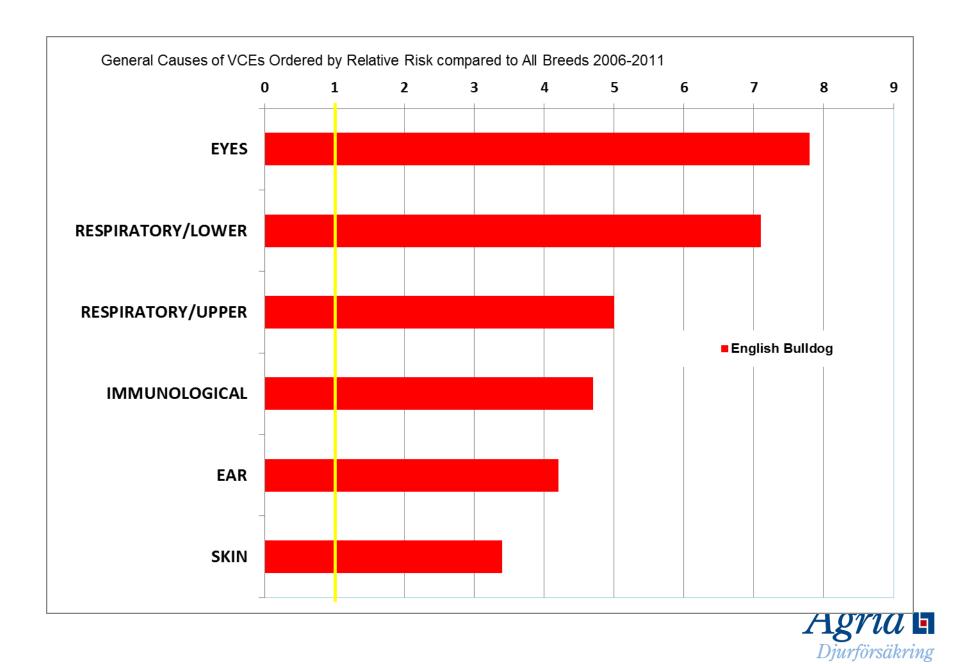


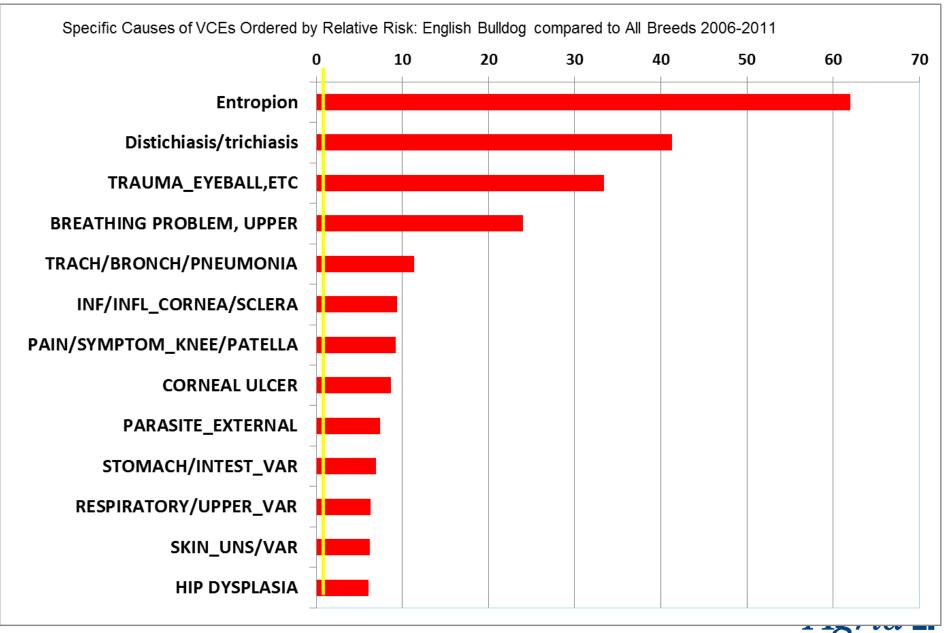


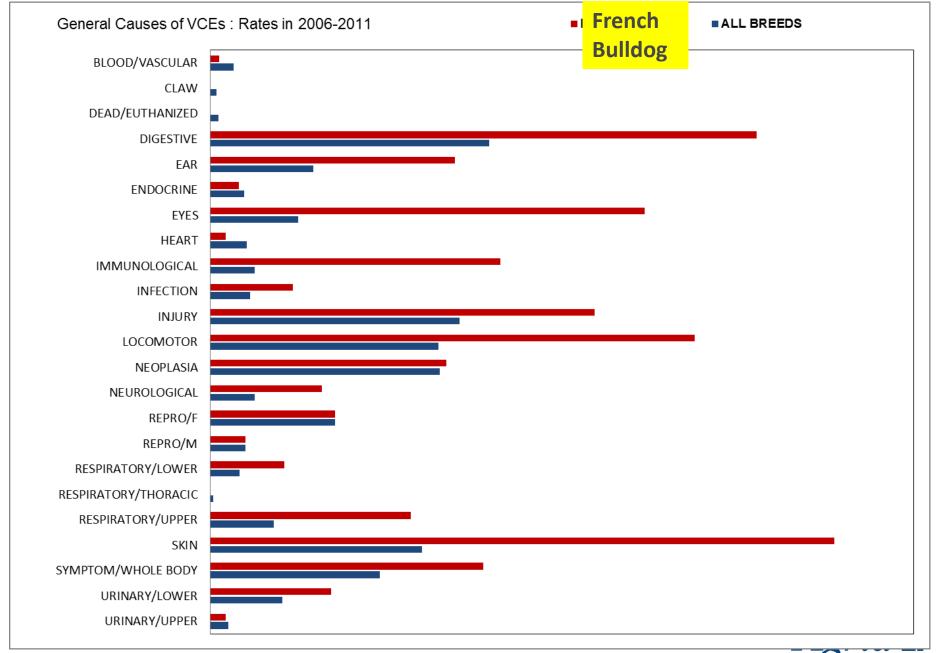


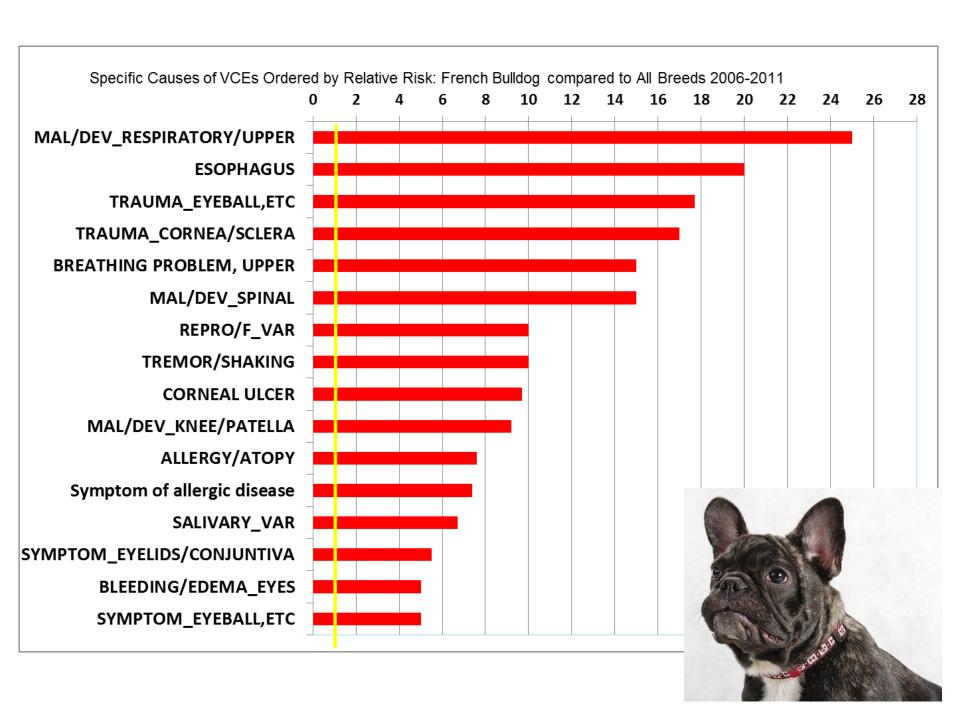




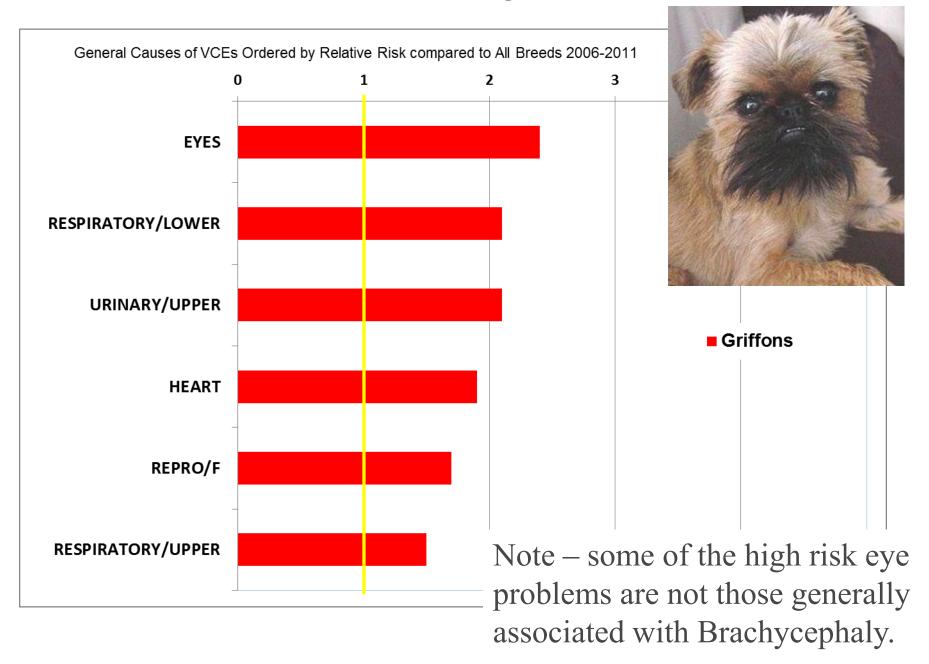


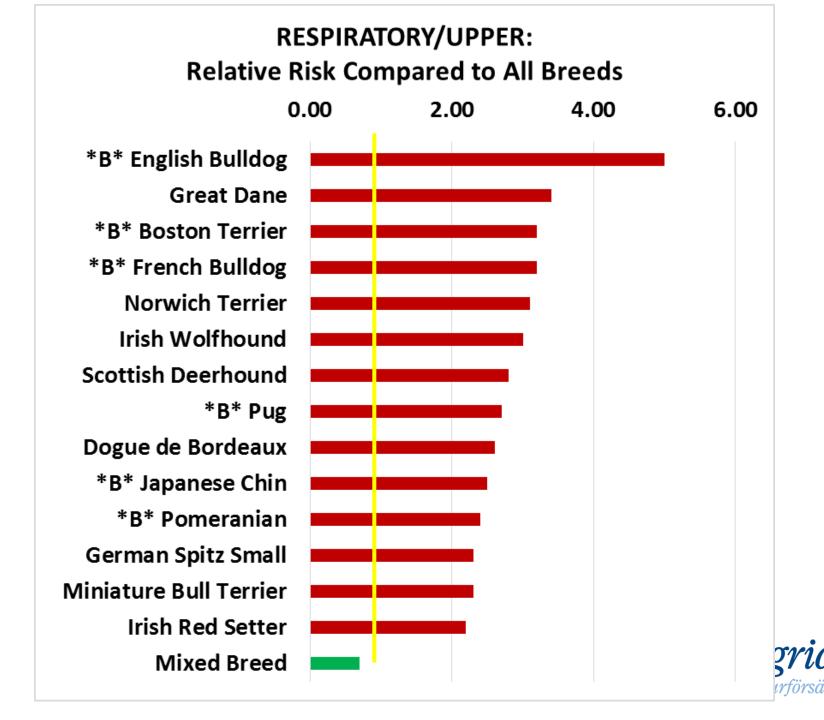






Overall – similar risk... but higher for certain conditions

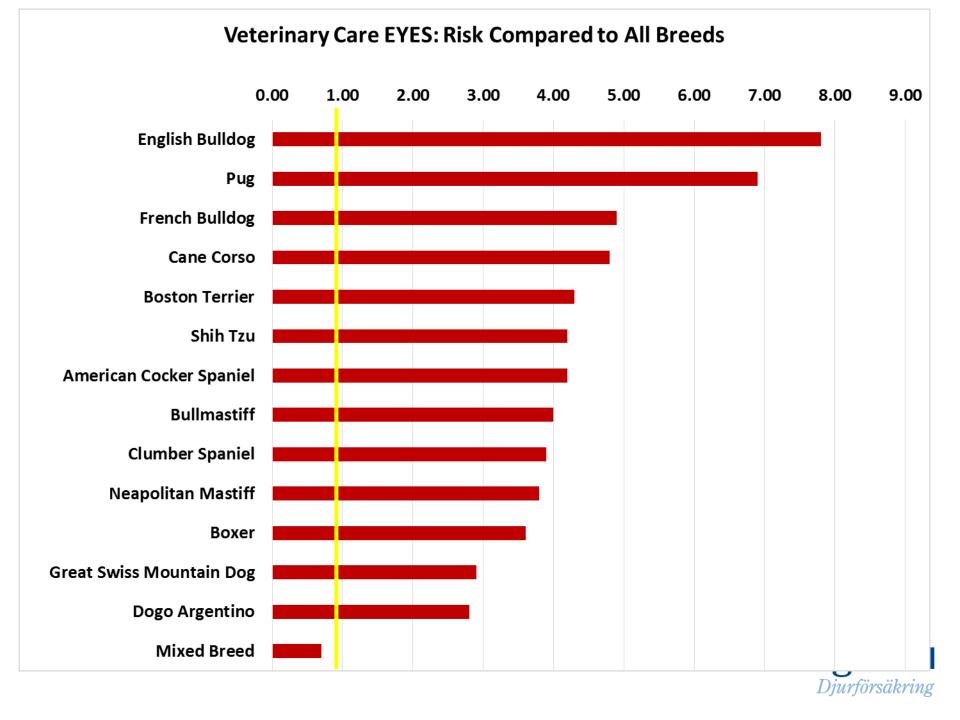




RESPIRATORY/UPPER: Ranking for Relative Risk Compared to All Breeds

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

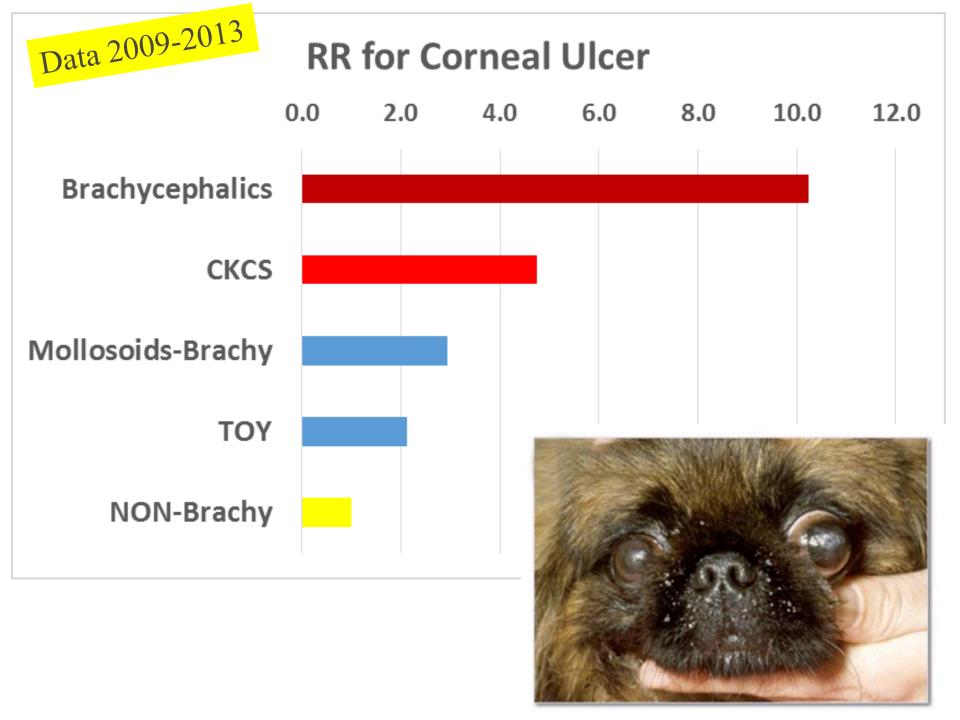




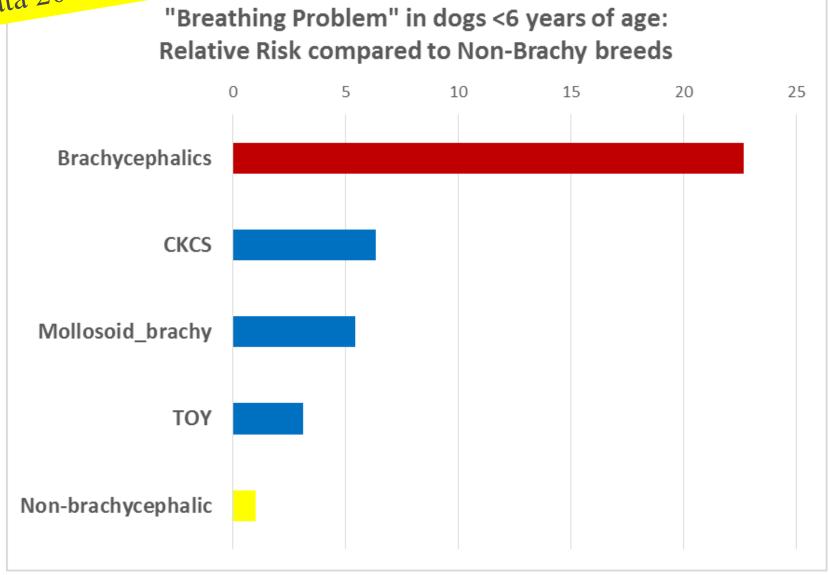
Veterinary Care Eyes: Ranking for Relative Risk Compared to All Breeds

<u>RANK</u>
1
2
2 4 6 7
<mark>6</mark>
<mark>7</mark>
12
20
21
22
31
58





Data 2009-2013





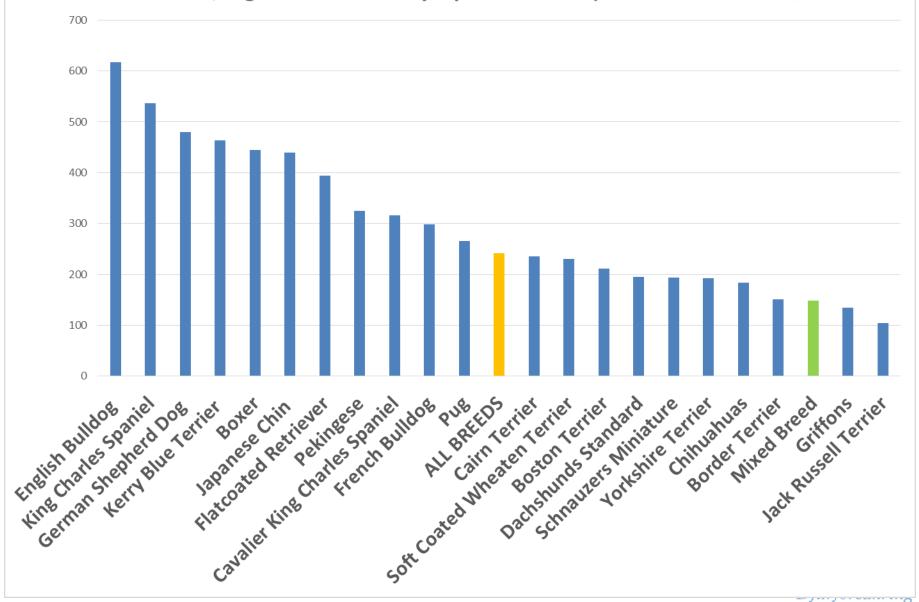
Data 2009-2013

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%

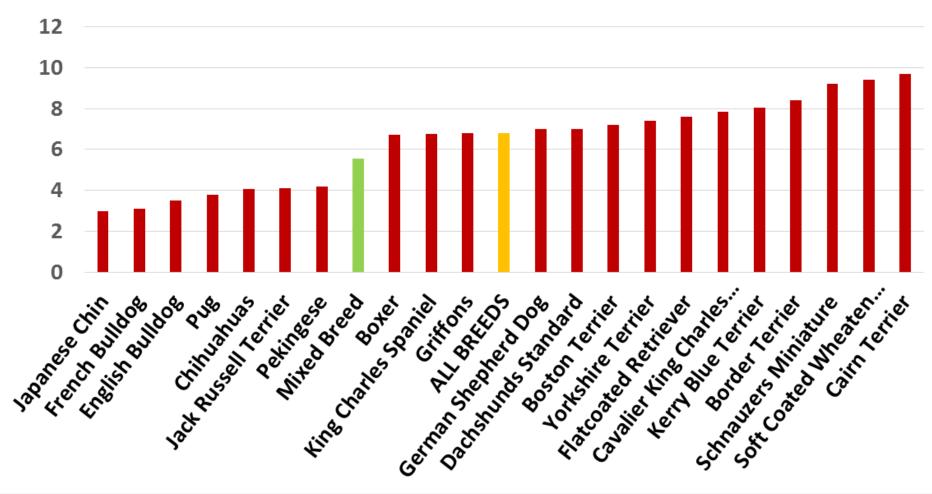


Mortality ... and age at death





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? 7

