



Disorders recorded in Cavalier King Charles

Spaniels attending primary-care veterinary practices in England

Results

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## Background

Cavalier King Charles Spaniels (CKCSs) are a popular canine breed in the UK. Concerns have been raised over breed-related health issues in CKCSs & other purebred dogs<sup>1</sup> but reliable, breed-specific disorder prevalence estimates based on large numbers of dogs are required.

3) Detailed review of clinical data for

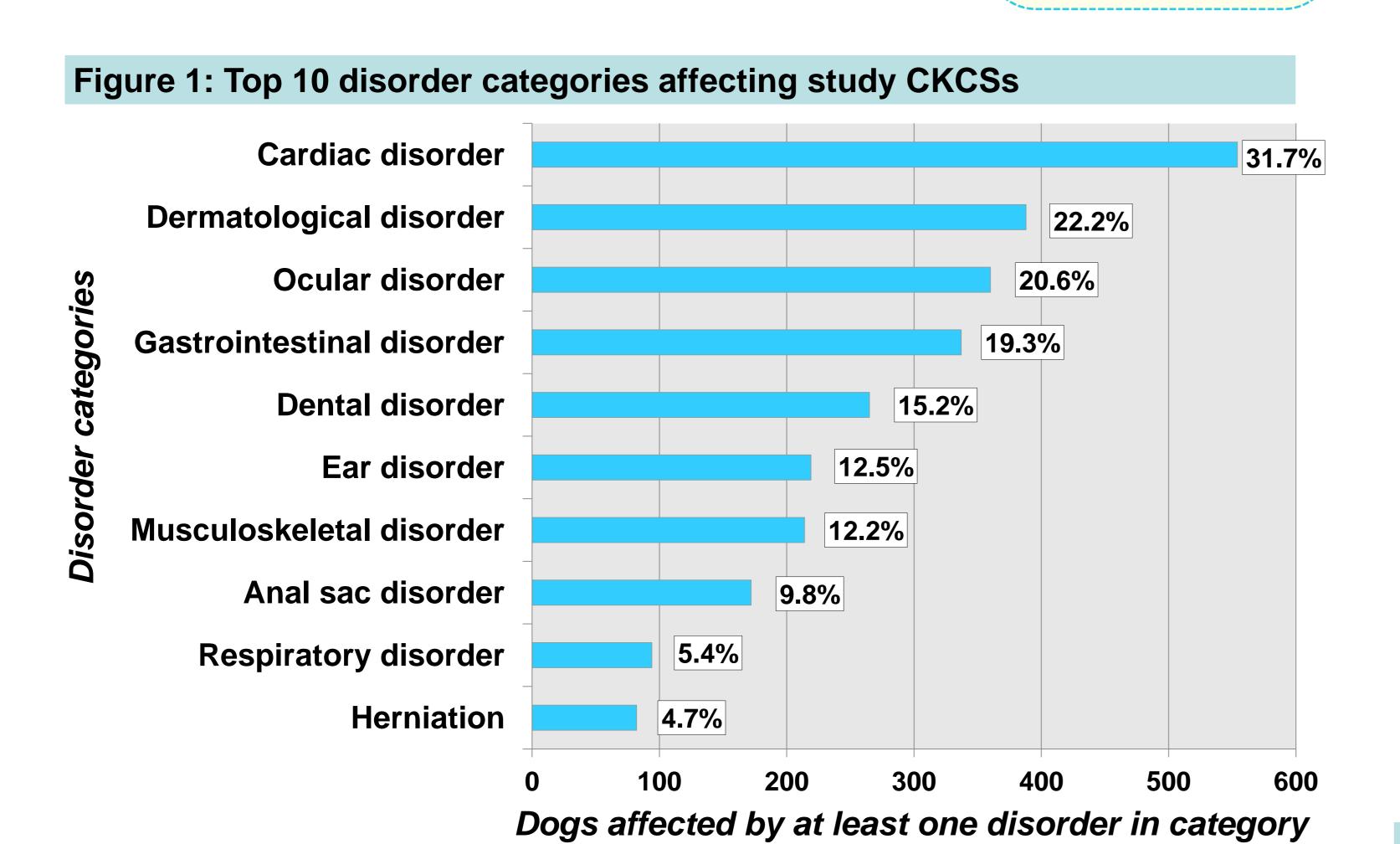
(Table 2, Figure 1)

dogs with 1 or more clinical EPR entry

## **Aims**

- Identify & describe a large group of CKCSs within electronic patient record (EPR) data from UK primary-care clinics (through the Vet Compass companion animal health surveillance initiative<sup>2</sup>).
- Characterise the most frequently recorded specific disorders & disorder categories in a random sample of these dogs.

## 1) All dogs with breed recorded as CKCSs identified in EPRs of 151 VetCompass-participating, primary-care clinics in England. n=3624 2) Study sample (52%) randomly selected. Demographics described. (Table 1)



**Total dogs** Variable Variable (% of study dogs\*) Category Male 965 **(51.5)** 905 (48.3) **Female** Sex Unspecified 5 **(0.2)** Blenheim 828 **(44.2) Tri-colour** 576 **(30.7)** Coat Ruby 227 **(12.1)** colour Black & white 103 **(5.5)** 141 (7.5) Other Totals per variable 1875\* **(100%)** 

Table 1: Study sample demographics

Specific diagnosis recorded	Total dogs diagnosed	Prevalence estimate for UK CKCS pop <sup>n</sup> (% with 95% CI)
Heart murmur	541	30.9 (28.8 - 33.1)
Diarrhoea - unspecified cause	193	11.0 (9.7 –12.6)
Dental disease	166	9.5 (8.2 –11.0)
Otitis externa	161	9.2 (7.9 –10.7)
Conjunctivitis	131	7.5 (6.3 –8.8)
Anal sac infection	129	7.4(6.2 –8.7)
Heart (cardiac) disease - unspecified	128	7.3 (6.2 –8.6)
Corneal disorder - unspecified	114	6.5 (5.5 –7.8)
Periodontal disease	98	5.6 (4.6 –6.8)
Mitral valve disorder (MVD)	88	5.0 (4.1 –6.2)
Umbilical hernia	72	4.1 (3.3 –5.2)
Flea infestation	64	3.7 (2.9 –4.7)
Anal sac impaction	63	3.6 (2.8 –4.6)
Cutaneous mass lesion - unspecified	62	3.5 (2.8 –4.5)
Keratoconjunctivitis sicca (Dry Eye)	61	3.5 (2.7 –4.5)
Gastroenteritis	59	3.4 (2.6 –4.3)
Patellar luxation	58	3.3 (2.6 –4.3)
Otitis - unspecified	48	2.7 (2.1 –3.6)
Osteoarthritis (osteoarthrosis, DJD)	46	2.6 (2.0 -3.5)
Colitis	44	2.5 (1.9 –3.4)

Table 2: Top 20 specific disorders recorded in study CKCSs



## Conclusions

- •Common disorders in study CKCSs largely reflect reports relating to the general UK vet-visiting canine population<sup>3</sup>. However, cardiac disease (MVD in particular) remains of particular concern in this breed.
- •Breed-specific epidemiological studies using veterinary primary-care EPR data can highlight potential disease predispositions within breeds to inform evidence-based, targeted canine health policies.

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n=1749

- References
- . Bateson P: Independent inquiry into dog breeding. In. Cambridge: University of Cambridge; 2010.
- 2. VetCompass Project: Health Surveillance for UK Companion Animals [http://www.rvc.ac.uk/VetCompass/Index.cfm]
  3. O'Neill D, Church DB, McGreevy PD, Thomson PC, Brodbelt DC: Prevalence of disorders recorded in dogs attending primary-care veterinary practices in England. PLoS One 2014, 9(3):e90501.