Is bodyweight associated with the general health of dogs under primary veterinary care in the UK

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OBJECTIVES

To evaluate associations between adult bodyweight and longevity and the frequency of common disorders in dogs under UK primary veterinary care.

METHODS

Demographic and diagnostic data were extracted from anonymised clinical records of randomly selected dogs under primary veterinary care during 2016 in the

VetCompass database. Mean adult (>18 months) bodyweight was extracted for each dog. Multivariable logistic regression analysis evaluated bodyweight as a risk factor for the twelve most common disorders.

RESULTS

Median adult bodyweight of the 20,752 study dogs was 13.59kg (IQR: 8.15–24.83). Median age at death was 12y (IQR: 9.39–14.04). Longevity increased as bodyweight decreased. Dogs <10kg lived longer than dogs ≥40kg (12.64y, 95% CI: 11.79–12.47 vs 9.81y, 95% CI: 8.92–9.90 respectively). The prevalence of having at least one disorder was lowest in dogs <10kg (4,970/7,638, 65.1%). Bodyweight was associated with the odds of 7 of the 12 most common disorders. Dogs ≥40kg had the lowest odds of dental (odds ratio [OR]: 0.22, 95% CI: 0.16–0.29, $P < 0.001$), claw/nail (OR: 0.64, 95% CI: 0.47–0.86, $P = 0.004$) and anal sac (OR: 0.32, 95% CI: 0.21–0.50, $P < 0.001$) disorders compared to dogs <10kg. Increasing bodyweight was associated with increasing odds of musculoskeletal disorder up to 40kg ($P < 0.001$).

STATEMENT (CONCLUSIONS)

Adult bodyweight is associated with differential longevity and disease risk but breed effects rather than bodyweight itself may explain much of these differences. Awareness of these effects can assist veterinarians to prepare owners of specific breeds for likely health and disorder outcomes.

Chewing the fat: prevalence and risk factors for obesity in dogs under primary veterinary care in the UK

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OBJECTIVES

To estimate prevalence and demographic risk factors for overweight/obesity in dogs under primary veterinary care in the UK.

METHODS

Electronic patient records of dogs within VetCompass™ during 2016 were retrospectively evaluated using

cross-sectional analysis. A sample of 22,333 dogs from a denominator population of 905,544 was analysed to identify dogs recorded with obesity within the patient records during 2016. Multivariable binary logistic regression modelling was used to identify risk factors.

RESULTS

Obesity was the 6th most prevalent disorder with a prevalence of 7.1% (95%CI = 6.7–7.4). Risk factors included neutering, age, bodyweight, insurance, head-shape and breed. There was no association between sex and obesity. Neutered dogs had 1.62 times odds (95%CI = 1.44–1.81) of obesity compared to entire dogs. Increasing age and increasing bodyweight showed increased odds of obesity. Compared to entire males, neutered males had 1.75 (95%CI = 1.50–2.05), entire females 1.19 (95%CI = 1.00–1.41) and neutered females 1.76 (95%CI = 1.50–2.06) times the odds of obesity. Compared to dolichocephalic dogs, brachycephalics had 1.54 (95%CI = 1.20–1.98), brachycephalic-crosses 2.05 (95%CI = 1.24–3.41) and mesocephalics 1.68 (95%CI = 1.34–2.10) times the odds of obesity. Compared to crossbreeds, four breeds were at increased odds of obesity: Pugs had 3.00 (95%CI = 2.12–4.08), Golden Retrievers 2.46 (95%CI = 1.72–3.63), Labradors 1.59 (95%CI = 1.30–1.95) and CKCS 1.41 (95%CI = 1.01–1.96).

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Oral presentations

STATEMENT (CONCLUSIONS)

Although shown here as a common diagnosis in primary-care practice, obesity is still not yet universally accepted as a disease, despite negative health and welfare consequences. This study suggests veterinarians

should particularly emphasise obesity prevention and management in brachycephalic and neutered dogs, and that future obesity should be considered during neutering decision-making, especially in high-risk breeds.

Veterinary consultations, expenditure and healthcare issues in newly adopted Romanian rescue dogs

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OBJECTIVES

The aim of this study is to describe the preliminary veterinary and health care findings from a wider cross-sectional survey of UK adopters of Romanian rescue dogs (RRDs) that sought to identify risk factors for an adopter dissatisfaction with their dog or the rescue process.

METHODS

An online survey that targeted UK people that had adopted a RRD was distributed using social media during June–July 2019. Respondents were asked several veterinary and healthcare related questions.

RESULTS

Of 1727 respondents, 201 (11.7%) reported being given inaccurate or little/no information on their adopted dog's pre-adoption physical health. 1405 (81.4%) had a veterinary consultation within the first month of adoption (85.1% for a routine healthcare check-up). Veterinarians diagnosed healthcare issues probably present at adoption in 229 (16.3%) dogs, with 6 and 52 of these potentially infectious to human or other animals respectively. Most had one (64.5%) or two (26.3%) conditions diagnosed. Two dogs had 4+ conditions diagnosed. Most conditions either did not require treatment (29.7%) or were short-lived/quick to resolve conditions (62%) but three dogs were euthanised within 1 month. In the first three months post adoption, most adopters (n = 189) spent £500 or less treating these health issues (38.5% < £100), but 2.7% spent more than £2500.

STATEMENT (CONCLUSIONS)

Most adopters of RRDs will not require non-routine veterinary treatment for newly adopted dogs. However, most new adopters will attend a veterinary practice anyway which provides an opportunity for informed healthcare discussions and support.

Field efficacy and safety of a novel oral chewable tablet containing sarolaner, moxidectin, and pyrantel against naturally acquired gastrointestinal

nematode infections in dogs presented as veterinary patients in Europe

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