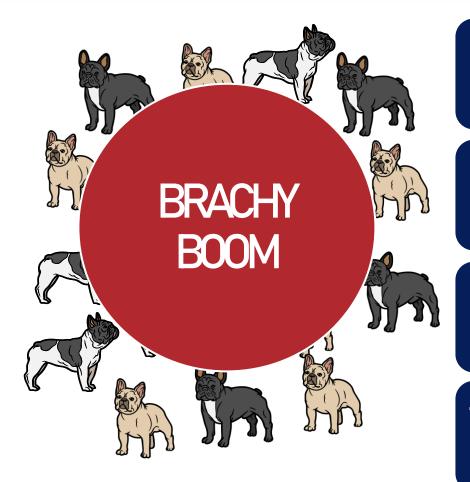
BRACHYCEPHALIC PHENOMENON THE DARK FASCINATION OF FLAT FACED DOGS

Sara Boero, Simona Cannas, Clara Palestrini, Alice Garegnani, Greta V. Berteselli greta.berteselli@unimi.it

Background



Popularity of brachycephalic breeds is increasing internationally despite intrinsic health and welfare problems

Increasing of non-professional and commercial breeders

Increasing of illegal international puppy trade in response to a high demand for pet with hyper-typical characteristics

The main affected breeds are French bulldog, English Bulldog, Pugs





Background

BRACHYCEPHALIC PHENOMENON





BRACHYCEPHALIC WELFARE CRISIS





Aims

This study aimed to explore the phenomenon of brachycephalic breeds in a sample of Italian dog owners, investigating dog-human bonding, behavioural features, health status perception, motivations and satisfaction of owning a brachycephalic dog







Mat&Meth

- Multiple-choice questionnaire
 - Administration through social channels
- Brachycephalic dog owners (BDOs)
 - French bulldog, English bulldog, Pug
- Non-Brachycephalic dog owners (NBDOs)
- Statistic analysis
 - Mann–Whitney U–Test
 - One-Way Anova test
 - Linear regression
 - Kruskal-Wallis equality of population rank test

- 1. General information on owner
- 2 Information about dog
- Veterinary expenses, and expectations and level of commitment in dog management
- 4. Brachycephalic dogs' medical history and health status perception
- 5. Motivation for purchasing brachycephalic breeds
- 6. Human-dog relationship (DORS scale)
 - Perceived emotional closeness (PEC)
 - Dog-owner interactions (DDI)
 - Perceived cost (PC)
- 7. Dog behaviour (C-BARQ)
 - Trainability
 - Excitability
 - Separation-related behaviour
 - Attachment or attention-seeking





Results

728 Italian owners participated to the survey



408 NBDOs

320 BDOs





Results - Human-dog relationship (DORS scale)

Dog-Owner interaction (DOI) and **Perceived Emotional Closeness (PEC)** scores were significantly **higher** in **BDOs** ($p \le 0.05$)

Perceived cost (PC) score was **higher** in **NBDOs** ($p \le 0.05$)

Subscale	NEDOs	BD0s
DOI (Dog-Owner Interaction)	408 ± 0.52	432±0.4
PEC (Perceived Emotional Closeness)	4.33 ± 0.56	4.55 ± 0.44
PC (Perceived Cost)	3.84 ±0.44	3.68 ± 0.56







Results - Human-dog relationship (DCRS scale)

CONSIDERING ONLY THE BDOs

PEC score was higher in owners who chose these breeds for **character** ($p \le 0.05$)

PC and DOI scores were related to health check status ($\rho \le 0.05$)

- Higher PC score related to excellent health status
- **Higher DOI** score related to **poor** health status



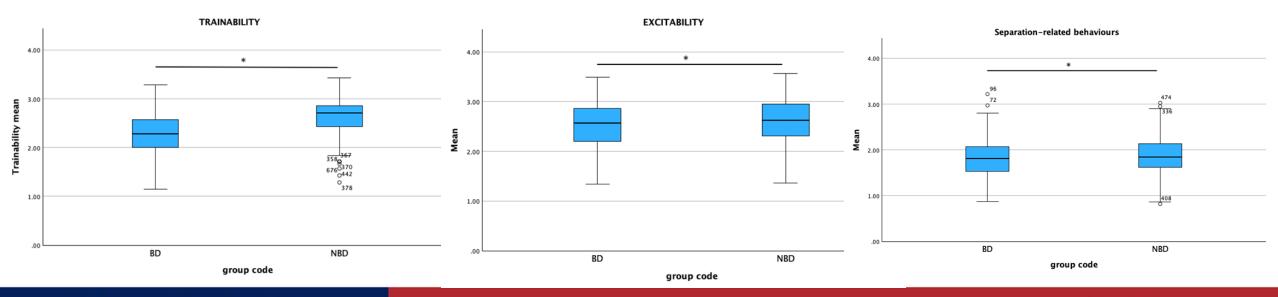






Results - Behavioural features (C-BARQ scale)

- NBDOs showed higher scores for
 - Trainability (p< 0.001)
 - Excitability (p= 0.003)
 - Separation-related behaviours (p= 0.024)
- No statistical differences were found between groups for attachment/attention seeking scores

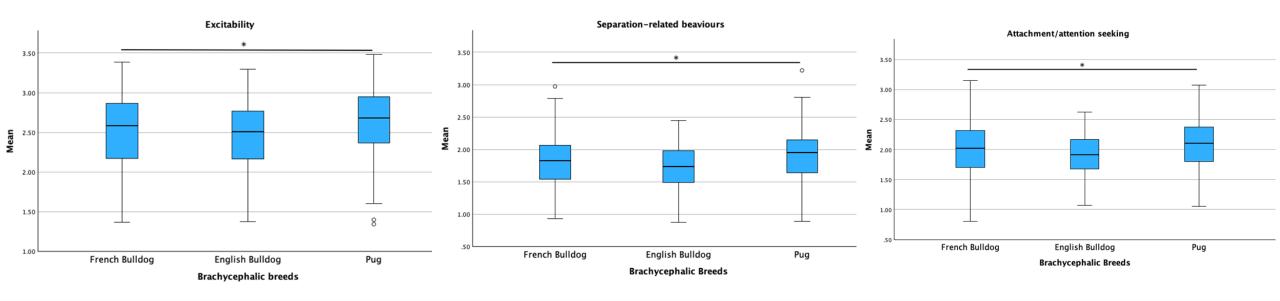






Results - Behavioural features (C-BARQ scale)

- Comparing the brachycephalic breeds, Pugs obtained the higher score for
 - Excitability (p=0.007)
 - Separation-related behaviours (p=0.005)
 - Attachment/attention seeking (p=0.011)







Results

- Character was the main motivation for acquiring brachycephalic breeds (94%) followed by aesthetic appearance (74%)
- Physical characteristics loved by BDOs
 - 95% flat face
 - 84% big and round eyes
 - 81% rounded head





Results

- Health status was considered from good to excellent by 81% of BDOs, despite breed related disorders' occurrence
 - BOAS
 - Gastroenteric disorders
 - Ocular disorders
- The **veterinary checks** were conducted mostly between 2 to 5 times a year (40%)
- The satisfaction of BDOs with veterinary costs, physical activity level, interaction, and dog behaviour met the expectations





Discussion

- The complexity of brachycephalic dogs' ownership was confirmed by this study
- Character and appearance were found to be main reasons for acquiring a brachycephalic dog, confirming literature data
- Brachycephalic dogs are believed to be better companions as they are more suited to the owner's life, more trainable, and affectionate
- This is also confirmed by the fact that the expectations regarding the possession of these breeds have all been met



Discussion

- The phenomenon of normalization of clinical problems can explain the distorted perception of dog's health status and the fatigue of owning a brachycephalic dog
- This phenomenon is characterized by the acceptance of clinical issues as typical traits of the breed

 The psychological mechanisms play a important role in under-recognizing poor welfare and normalizing breed-related problems

- Cognitive dissonance
- Psychological needs fulfil by caregiving



Discussion

- Physical conformation, such as the frontal eyes, make these breeds more likely to be trainable and to pay attention to the owner
- This is not supported by the results of this study where the trainability was lower compared to NBD
- Behavioral traits related to attachment and separation seem associated with hyper-typical neotenic features such as pugs
- Owner interpretations of canine behaviour and the perception of relationship quality, can be influenced by the dog's neotenic appearance (baby-schema)



Conclusion

- A deeper understanding of brachycephalic phenomenon can support the development of effective strategies to protect the welfare and health of brachycephalic breeds
- Scientific knowledge is needed to revise breed standards, prioritizing animal welfare, while still maintaining their "cuteness"
- Ethical breeding practices are urgently needed
- This approach could be more effective than banning these breeds to find a resolution to brachycephalic crisis



NEXT PUBBLICATION!

Italians Can Resist Everything, Except Flat-Faced Dogs!

Simona Cannas, Clara Palestrini, Sara Boero, Alice Garegnani, Silvia M. Mazzola, Emanuela Prato-Previde and Greta V. Berteselli





THANK YOU FOR YOUR ATTENTION!

Sara Boero, Simona Cannas, Clara Palestrini, Alice Garegnani, <u>Greta V. Berteselli</u>

gretaberteselli@unimi.it



