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CBD/CBDA* rich hemp extract and Shelter Dogs : A New Look at Canine Activity and Welfare

* Canabidiol/Cannabidiolic Acid

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INTRODUCTION

- ~106 million dogs in Europe [1]
- 74% of EU citizens support stronger protection for pets [2]
- ↑ use of dietary supplements (plant extracts), to support pets health and welfare [3]

- Shelter dogs face chronic stress (e.g., stereotypies) [4]
- Potential of CBD (from hemp plant) to reduce stress via the endocannabinoid system [5,6]
- Scientific evidence remains limited [6, 7, 8, 9]

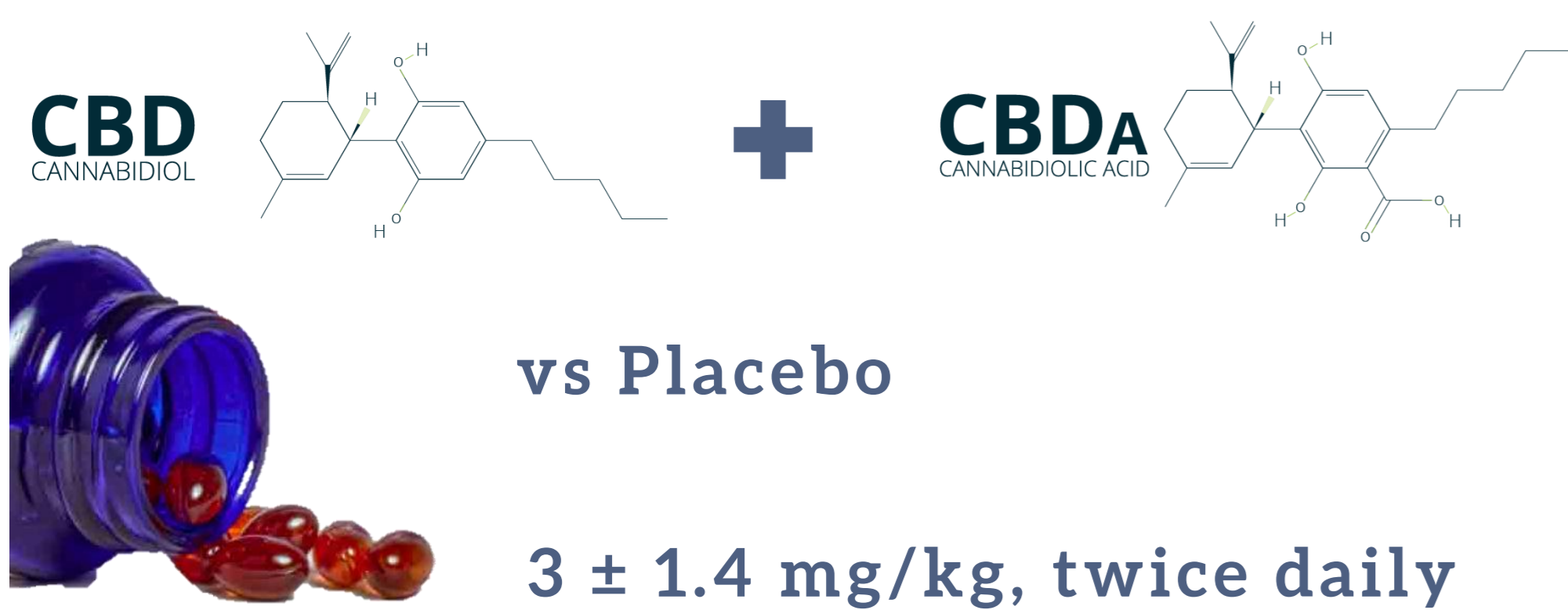
OBJECTIVE

To assess whether CBD, as a dietary supplement, can improve shelter dogs' welfare by reducing their stress levels

QUESTION

Does CBD affect activity levels in shelter dogs ?

METHODS



48h

T0 = inclusion

T1 = 4 weeks after administration

Activity Levels Correspondance



LMMs

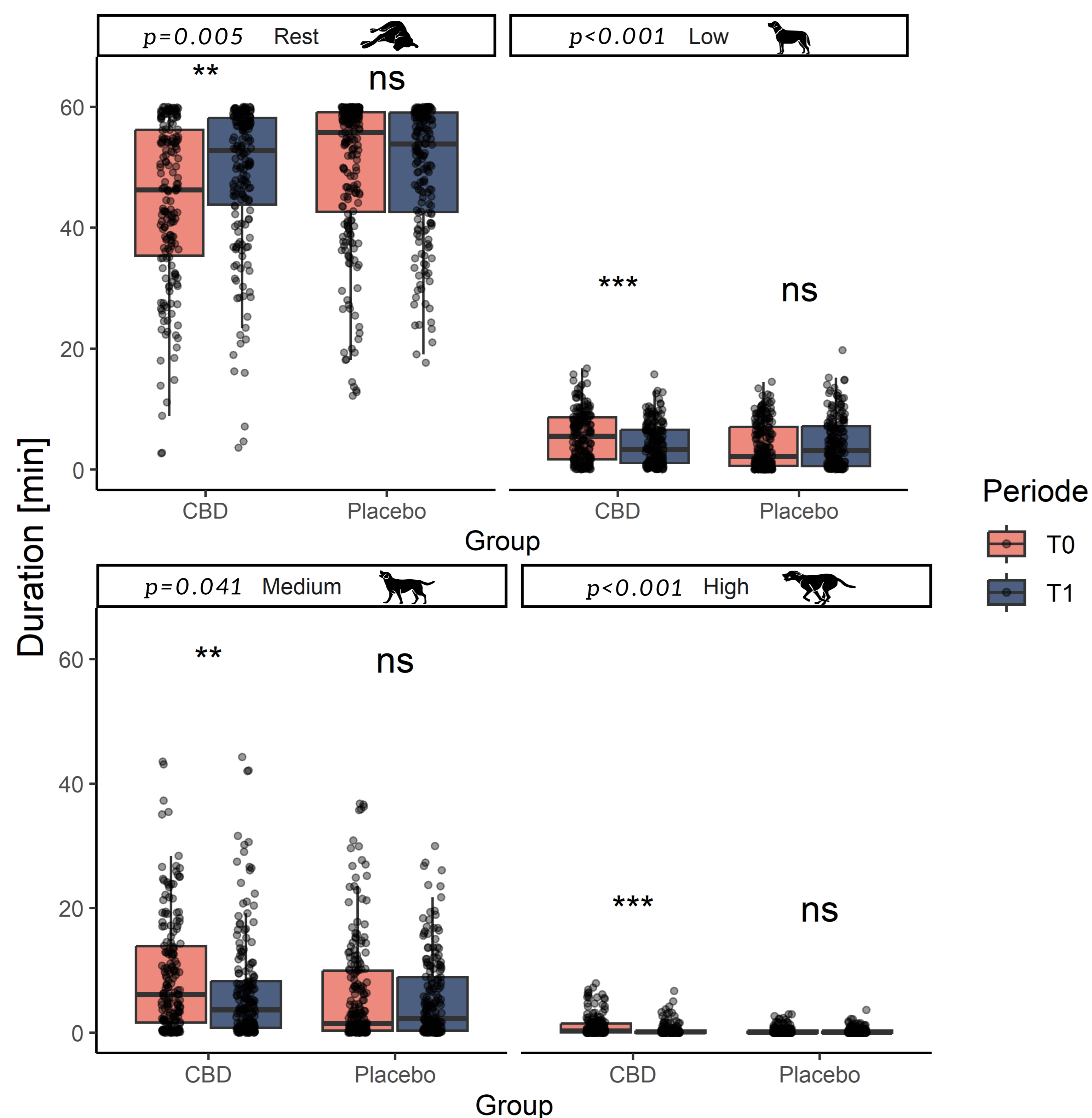
* p < 0.05

4.4.3

INITIAL RESULTS

Total time spent per hour in each of the 4 activity levels, by group and period

9 (4 CBD & 5 Placebo) - 759 h data



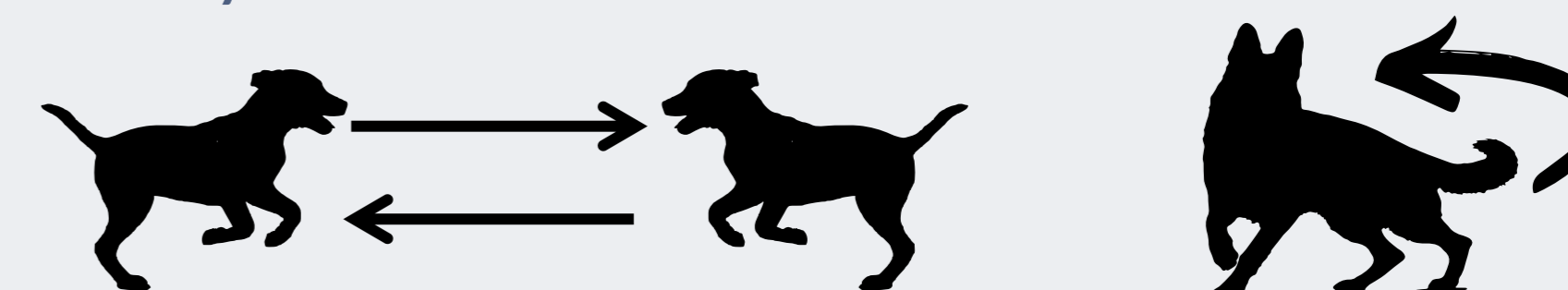
DISCUSSION

→ After 4 weeks of administration, significant increase in resting time and decrease in physical activity in the experimental group, but not in the placebo group

Suggests a specific effect of CBD+CBDA on activity levels

→ Contrasts with previous findings showing little impact of CBD on overall activity (except for scratching) [9]

→ Possible reduction of stress/anxiety-related stereotypic behaviors (e.g., pacing, circling), which may explain lower activity



CONCLUSION

→ CBD can modulate dog activity, perhaps by reducing stress and thus improving welfare

→ Further analysis is needed to differentiate functional behaviors from stereotypies

Acknowledgments

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Bibliographie

- [1] FEDIAF. (2024). Annual Report.
- [2] Office of the EU. (2023). Attitudes of Europeans towards animal welfare.
- [3] Zimmermann A, Visscher C, Kaltschmitt M. (2023). Plant-based fructans for increased animal welfare: provision processes and remaining challenges.

- [4] Marliani G, Vaccari L, Cavallini D, Montesano CS, Buonavita G, Accorsi PA. (2024). Assessing the effectiveness of cannabidiol additive supplementation on canine behavior and cortisol levels.
- [5] Vaughn DM, Paulonis LJ, Kulpa JE. (2021). Randomized, placebo-controlled, 28-day safety and pharmacokinetics evaluation of repeated oral cannabidiol administration in healthy dogs.
- [6] Masataka N. (2024). Possible effects of cannabidiol (CBD) administration on the vocal activity of healthy domestic dogs upon their temporary separation from caregivers.
- [7] Flint HE, Hunt ABG, Logan DW, King T. (2024). Daily dosing of cannabidiol (CBD) demonstrates a positive effect on measures of stress in dogs during repeated exposure to car travel.
- [8] Marliani G, Vaccari L, Cavallini D, Montesano CS, Buonavita G, Accorsi PA. (2024). Assessing the effectiveness of cannabidiol additive supplementation on canine behavior and cortisol levels.
- [9] Morris EM, Kitts-Morgan SE, Spangler DM, Gebert J, Vanzant ES, McLeod KR, et al. (2021). Feeding Cannabidiol (CBD)-Containing Treats Did Not Affect Canine Daily Voluntary Activity.