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## Animal welfare in Italian long-term shelters. Benchmark against an "ideal shelter"

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Keywords: animal shelters, dogs, Italy, assessment tool, no kill policy

The No-kill policy for Italian sheltered dogs may result in their permanent detention in long-term facilities with the consequences that the animal welfare can be affected. A sample of 64 shelters along the Italian North-South axis was assessed with the Shelter Quality Protocol (SQP), an ad hoc tool for the evaluation of shelter dogs' welfare.

The aim of this study was to generate a benchmark of the Italian situation based on the assessments' results. A final scoring system of the SQP was created, based on expert opinion, assigning weights to each principle, criterion, measure and categorical variable included within the protocol. Finally, through specific algorithms, a database was built to calculate automatically the final percentage score of each shelter in respect to the "ideal shelter" (100%). The 64 shelters were classified by type of management (animal protection associations, municipalities and private organizations/companies) and by geographical area (North, Centre and South). Shelters managed by animal protection association received a higher score (Mean 83%), followed by shelters directly managed by municipalities (Mean 81%) and then by private shelters (Mean 75%). The shelters situated in the Northern and Central Italian regions received a higher score

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(North: Mean 82.5%, and Centre: Mean 81.9%) compared with the shelters from South Italy (Mean 78.3%). Different management systems and geographical areas provided the level of variability of SQP results. South Italy showed a critical situation regarding animal welfare in long-term shelters. Shelters with high score may be a great opportunity for improvement of other shelters within the same region.

## RERERENCES

- BARNARD, S., PEDERNERA, C., CANDELORO, L., FERRI, N., VELARDE, A., & DALLA VILLA, P. (2016). Development of a new welfare assessment protocol for practical application in long-term dog shelters. The Veterinary record, 178(1), 18.
- CAFÁZZO, S., MARAGLIANO, L., BONANNI, R., SCHOLL, F., GUAR-DUCCI, M., SCARCELLA, R., ... & BUCCI, E. (2014). Behavioural and physiological indicators of shelter dogs' welfare: Reflections on the nokill policy on free-ranging dogs in Italy revisited on the basis of 15years of implementation. Physiology & behavior, 133, 223-229.
- MILLER, L., & ZAWISTOWSKI, S. 2015. Housing, husbandry, and behavior of dogs in animal shelters. In: E. Weiss, H. Mohan-Gibbons, S. Zawistowsky (eds). Animal Behavior for Shelter Veterinarians and Staff, 145-159
- TAYLOR, K. D., & MILLS, D. S. (2007). The effect of the kennel environment on canine welfare: a critical review of experimental studies. Animal Welfare, 16(4), 435.
- WELLS D., GRAHAM, L., HEPPER, P.G. (2002). The influence of length of time in a rescue shelter on the behaviour of kennelled dogs. Animal Welfare 11, 317-325

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