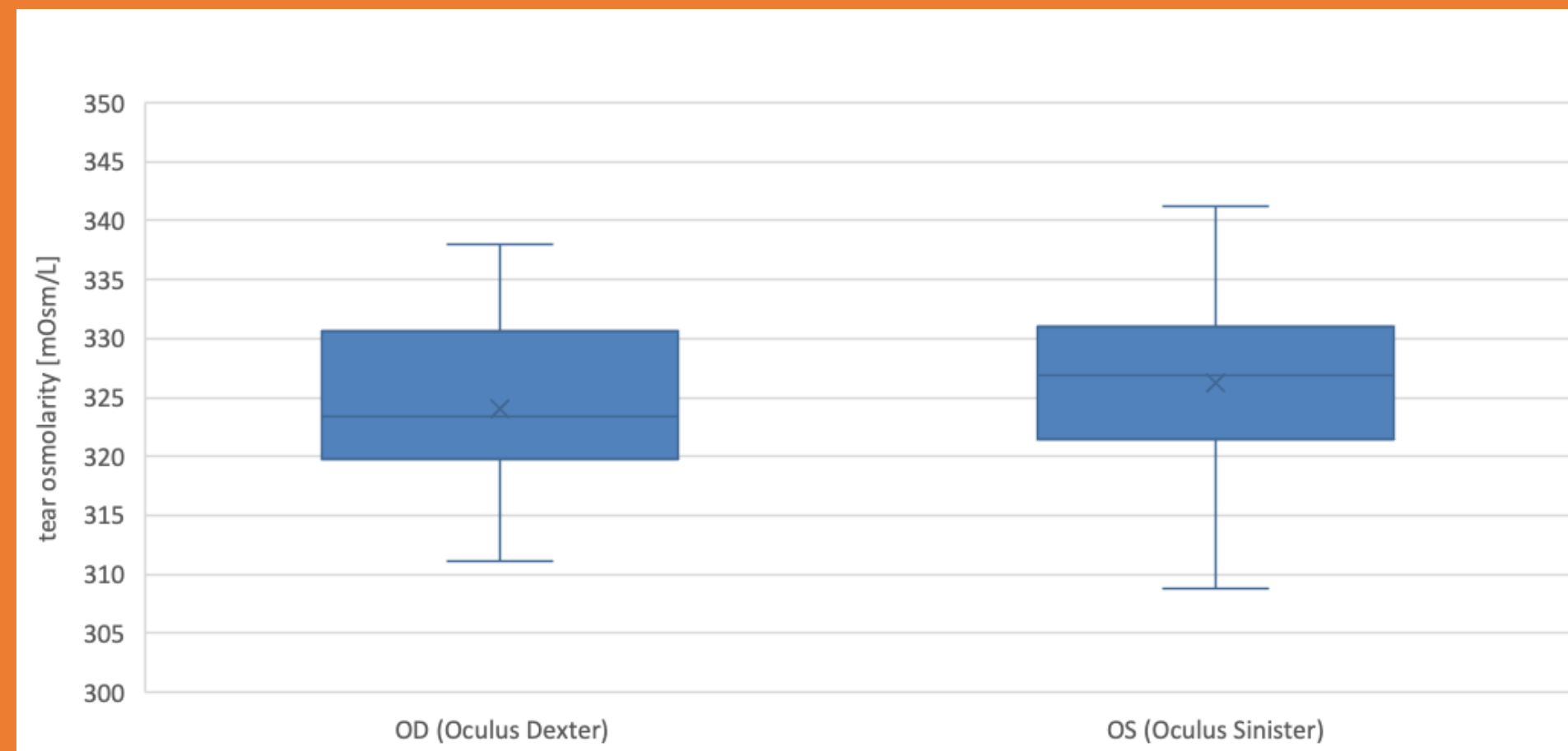
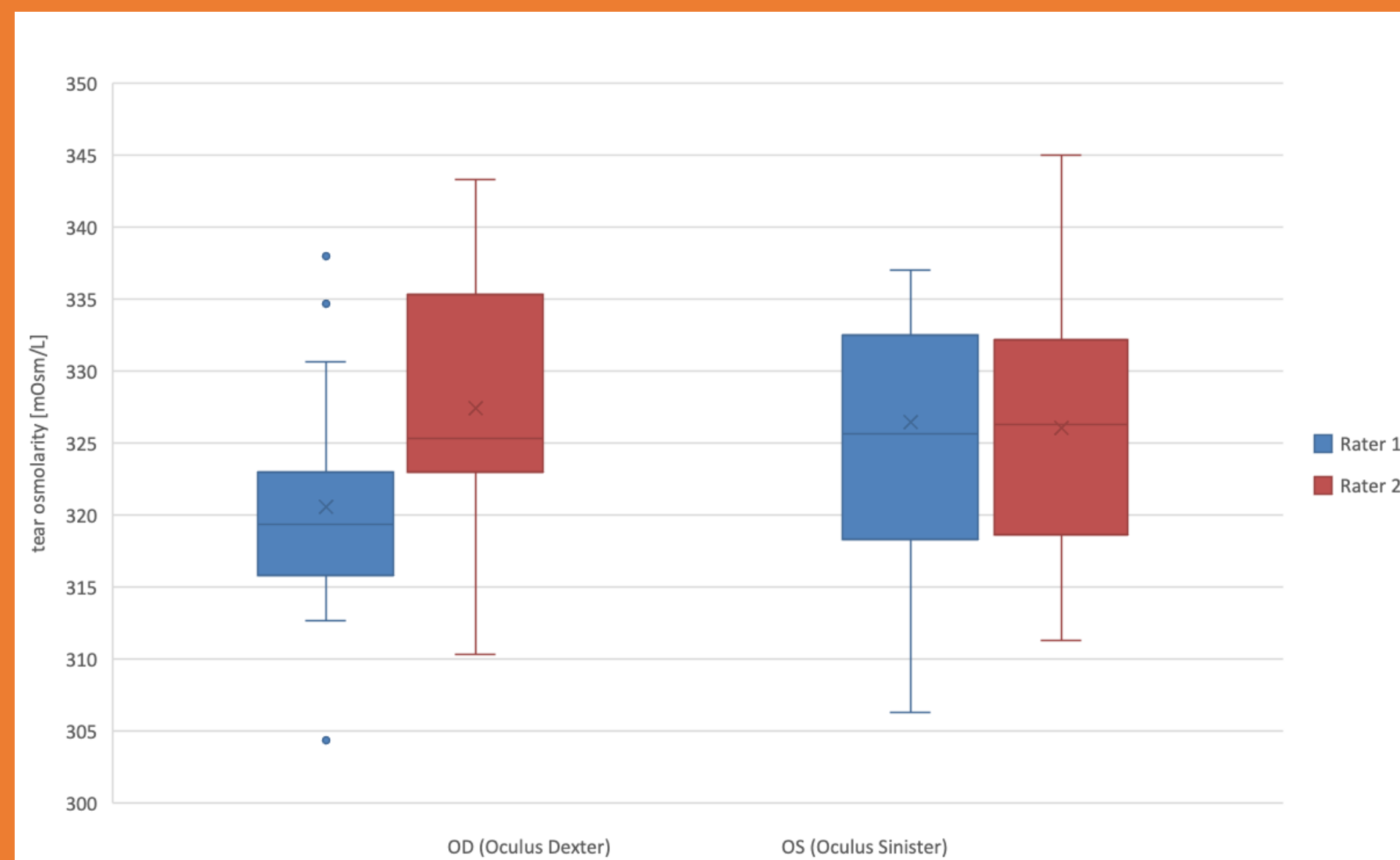


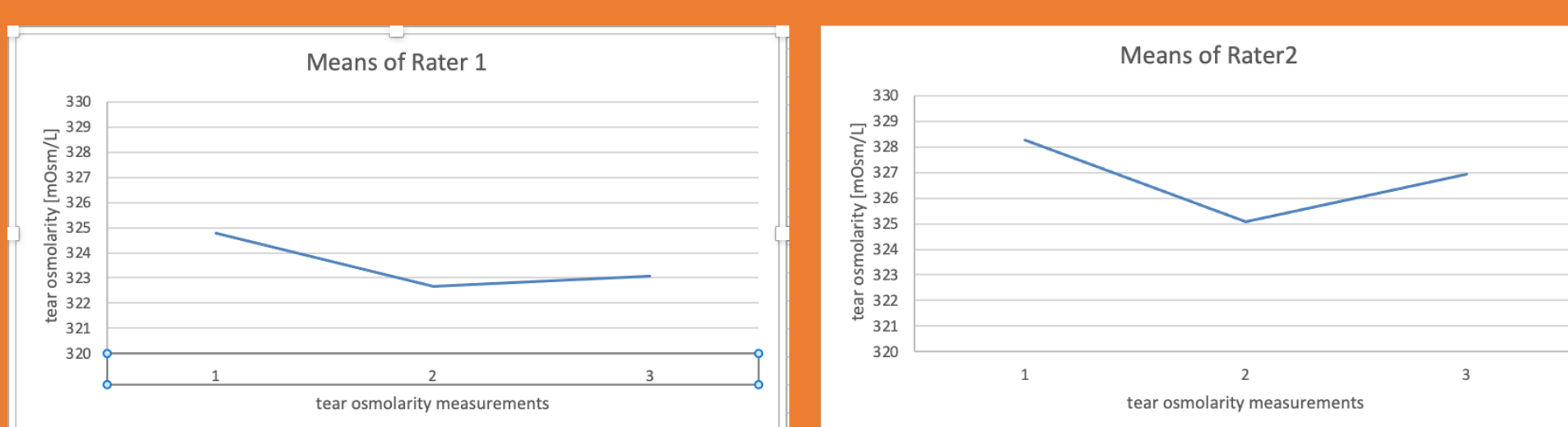
CANINE TEAR OSMOLARITY MEASURED WITH THE SCOUTPRO® OSMOLARITY SYSTEM



ScoutPro® tear osmolality, mean both raters



ScoutPro® tear osmolality, mean each rater



individual measurements, mean each rater

ScoutPro® tear osmolality system - pilot study

- use in dogs is simple
- intra-rater variability was good
- inter-rater reliability was acceptable
- mean tear osmolality: 323- 326 mOsm/L (rater 1-2)



PURPOSE

- To evaluate the applicability of the ScoutPro® (Trukera Medical, Southlake TX, USA) osmolality system in healthy dogs.

METHODS

- Tear osmolality of 17 healthy dogs of dolicho- and mesocephalic breeds was tested with the ScoutPro® osmolality system.
- Two examiners took three subsequent measurements of each eye.
- Intra-rater variability and inter-rater reliability were calculated.

RESULTS

- The measuring technique was straightforward, instrument handling was simple.
- Mean tear osmolality measured by examiner one was 326.74 ± 10.55 mOsm/L and by examiner two 323.51 ± 12.01 mOsm/L.
- Mean difference between examiners was 3.2 ± 11.2 mOsm/L.
- Paired two-tailed t-test was 0.1, Cohens D was -0.29.

DISCUSSION

- Measurements with the ScoutPro® osmolality system are easy to perform in dogs.
- Variability and inter-rater reliability seem to be acceptable in the small group of dogs tested.
- Further studies regarding the reliability of the test results and the evaluation of the tear osmolality in ocular surface disease are warranted.
- We declare no financial interest.



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