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It's a Bird, It's a Plane, It's a Superhero Seal: The Use of a Therapeutic Robotic Seal to Facilitate Rehabilitation in the Pediatric ICU

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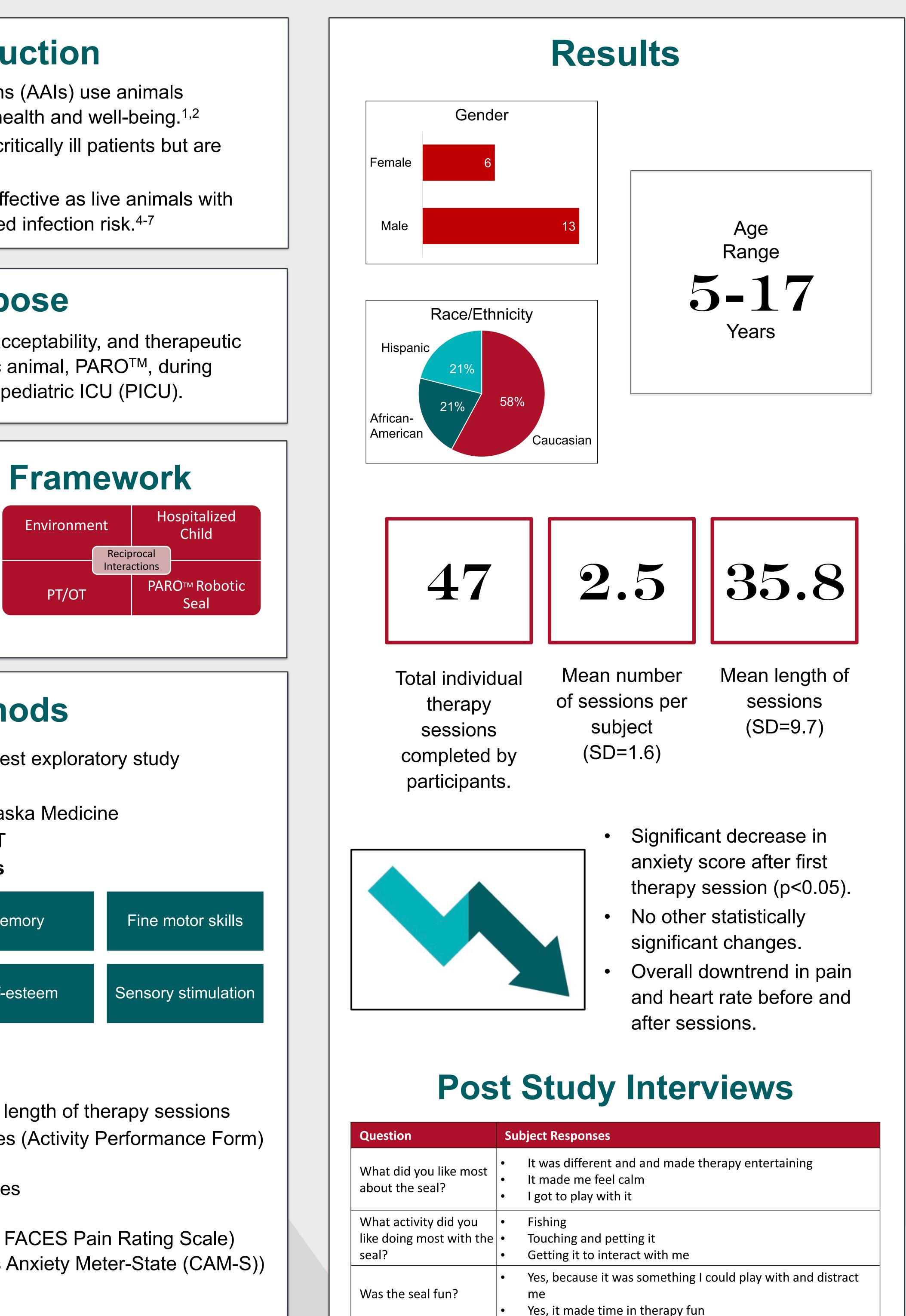
It's a bird, it's a plane, it's a superhero seal: The use of a therapeutic robotic seal to facilitate rehabilitation in the pediatric ICU

Christina Bach, BSN, RN, CCRN, Abigail Wawers, BSN, RN, Jennifer M. Heusinkvelt, BSN, RN, Alison Moody BSN, RN, Sara Kinsella OTR/L, Haley Haefner, PTA, Kevin Kupzyk, PhD, Breanna D. Hetland, PhD, RN, CCRN-K College of Nursing, University of Nebraska Medical Center, Omaha, NE

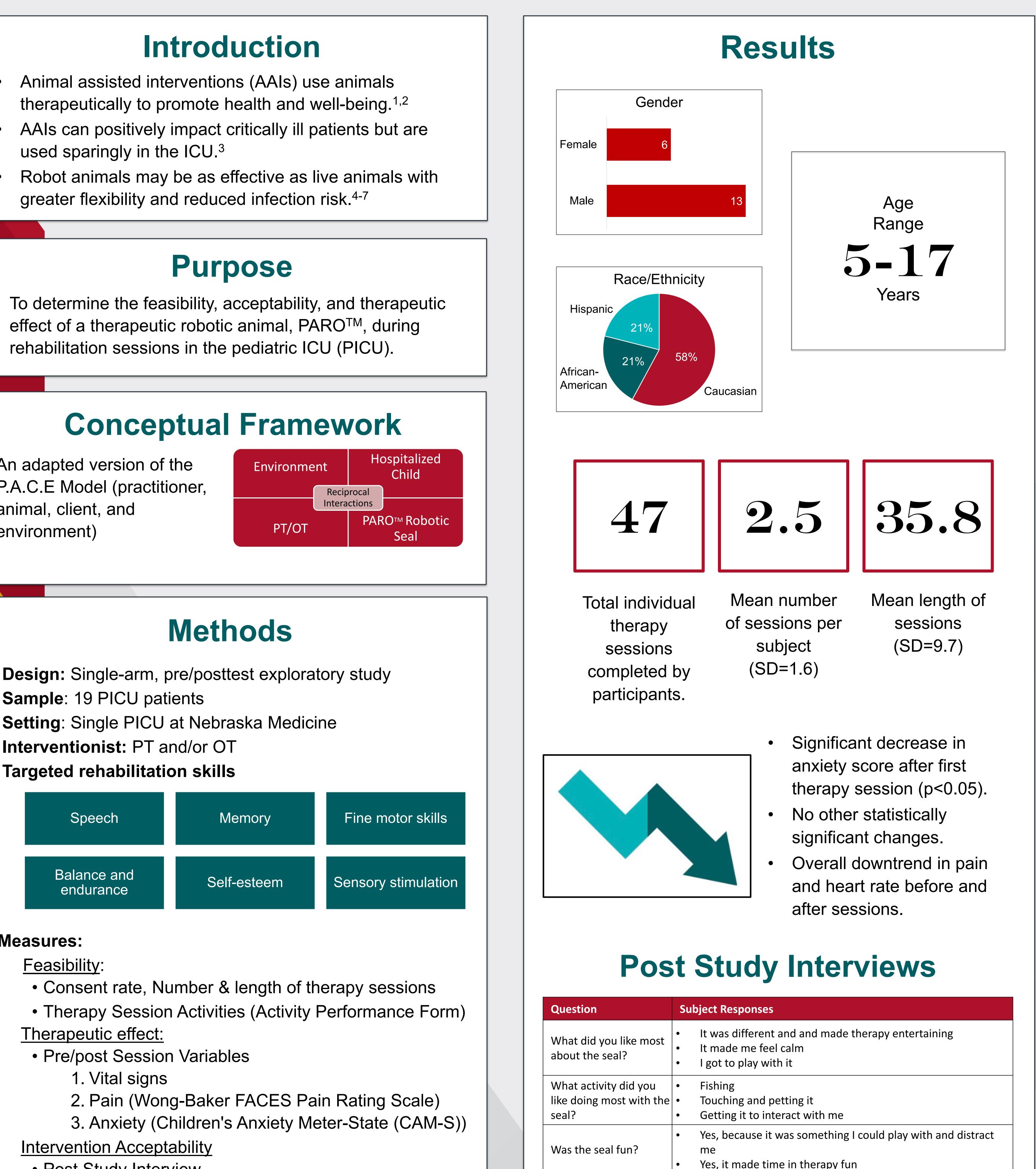
- Animal assisted interventions (AAIs) use animals
- used sparingly in the ICU.³
- greater flexibility and reduced infection risk.4-7

effect of a therapeutic robotic animal, PAROTM, during rehabilitation sessions in the pediatric ICU (PICU).

An adapted version of the P.A.C.E Model (practitioner, animal, client, and environment)



Design: Single-arm, pre/posttest exploratory study **Sample:** 19 PICU patients **Setting**: Single PICU at Nebraska Medicine **Interventionist:** PT and/or OT



Measures:

- Post Study Interview



Conclusions

- AAI using a robot animal is feasible, acceptable, and was received positively by participants.
- This novel intervention has great potential to positively impact critically ill patients and transform critical care rehabilitation.
- More research is needed to understand the specific psychophysiological responses associated with improved outcomes.

Future Directions

- This study provided preliminary findings for an ongoing clinical trial at a large tertiary children's medical center.
- Additional behavioral measures related to patient motivation and guardian satisfaction have been added.



References

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