

See Us-Be Us: Inspiring Future Veterinarians Using a Veterinary STEM Ecosystem	
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www.VetaHumanz.org	https://nihsepa.org/project/see-us-be-us-inspiring-future-veterinarians-using-a-veterinary-stem-ecosystem/

The League of VetaHumanz is an alliance of veterinary superheroes in academia, practice, research, government, and industry who are committed to engaging with under-resourced communities across the globe to provide access and support for youth who aspire to careers in the veterinary profession.

Program and Participant Characteristics		Program Activities
Program type (Please check all that apply): <input checked="" type="checkbox"/> Curriculum. <input checked="" type="checkbox"/> Out-of-school program <input type="checkbox"/> Exhibit <input type="checkbox"/> Interactive multimedia <input type="checkbox"/> Teacher PD <input type="checkbox"/> Research experiences for students or teachers <input checked="" type="checkbox"/> Other (describe): In-person and self-guided veterinary STEM educational experiences for K-4 students.		<p>Our award-winning SuperPower Packs are self-guided, educational experiences for kids lacking access to in-person veterinary role models. Each SuperPower Pack contains an activity to help kids engage in veterinary careers by taking on the persona of a veterinary superhero. 7 SuperPacks have been developed: Stat!, Vaccines!, Do You Have Diarrhea?, Beast Moves!, Go Vet!, Moooo Vet, and Vet Adventures! Over 22,000 free SuperPower Packs have been given to children. Four SuperPower Packs have been recognized with Academics' Choice Brain Toy Awards.</p>
Setting(s): <input checked="" type="checkbox"/> Formal <input checked="" type="checkbox"/> Informal		
Types of participants <input checked="" type="checkbox"/> Students <input type="checkbox"/> Teachers <input checked="" type="checkbox"/> Scientists <input type="checkbox"/> Families <input type="checkbox"/> Public <input type="checkbox"/> Other (describe):		
Grade level(s) of participants <input type="checkbox"/> PreK <input checked="" type="checkbox"/> Elementary (K-5) <input type="checkbox"/> Middle (6-8) <input type="checkbox"/> High (9-12) <input type="checkbox"/> Adult		
Characteristics of the populations you serve relative to DEIA: Diverse and Low SES		

Evaluation		Key Accomplishments and/or Findings
<p>Constructs measured</p> <p><input type="checkbox"/> Content knowledge <input type="checkbox"/> Skills</p> <p><input type="checkbox"/> Nature of science <input checked="" type="checkbox"/> Career awareness</p> <p><input checked="" type="checkbox"/> Attitudes (e.g., interest, identity, belonging)</p> <p><input type="checkbox"/> Quality or fidelity of implementation</p> <p><input checked="" type="checkbox"/> Other (describe): Role model embodiment, Engagement</p>	<p>“League of VetaHumanz uses a nationwide network of university-community partnerships to provide veterinary STEM learning experiences for children who are more likely to lack access to enriching, supplemental educational opportunities due to systemic barriers based on their race, ethnicity, or socioeconomic status. To include participation beyond in-person programming, SuperPower Packs, self-guided, learning experiences, were developed. Leveraging social cognitive career theory and the “Batman Effect,” SuperPower Packs are designed to build self-efficacy, and seed STEM and veterinary science career aspirations by engaging children in STEM learning through connections with a veterinary role model. Four SuperPower Packs were developed. Beginning in the fall of 2021, for 17 months, 16,655 SuperPower Packs were distributed to children in 23 states. A small portion of children who received the game (3.8%, N = 614, 6-12 years old) returned evaluation surveys that measured activity engagement, likelihood of role model identification and demographics. Participants indicated variation in their experiences, but mean scale scores show desirable perceptions of engagement ($M_{Range} = 2.38 - 2.90/3$) and role model identification ($M_{Range} = 2.15 - 2.94/3$). These positive learning and role model experiences help set the stage to encourage youth to pursue similar learning and career opportunities in the future.”</p>	
<p>Methods</p> <p><input checked="" type="checkbox"/> Tests/surveys <input type="checkbox"/> Interviews/focus groups</p> <p><input type="checkbox"/> Observations <input type="checkbox"/> Artifacts (e.g., student work)</p> <p><input type="checkbox"/> Other (describe):</p>		
<p>Design characteristics</p> <p><input type="checkbox"/> Comparison or control group</p> <p><input checked="" type="checkbox"/> Pre/post surveys or assessments</p> <p><input type="checkbox"/> Longitudinal tracking of participants</p> <p><input type="checkbox"/> Other (describe):</p>		
<p>Project Lessons Learned</p> <ul style="list-style-type: none"> • Self-guided educational experiences can be an effective strategy to deliver engaging veterinary STEM curricula. • In-person and virtual methods are both effective means of introducing children to diverse veterinary role models. 		<p><i>San Miguel SF, McDavid L. 2024. League of VetaHumanz SuperPower Pack Program: Introducing Young People from Diverse Backgrounds to STEM Learning Activities and Veterinary Science Careers. Journal of STEM Outreach 2024;7(2):1–11. PMID: PMC10906976.</i></p>

Questions, Advice Wanted, or Topics of Discussion for the SciEd Community (optional)
<p>Advice on strategies for encouraging participants to return surveys, given IRB constraints, would be greatly appreciated.</p>