

# Effectiveness of Equine-Assisted Activities for Individuals With Mild to Moderate Dementia

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# INTRODUCTION

- In 2030, 80 million people are projected to develop some form of dementia worldwide (World Health Organization [WHO], 2019)
- Deterioration in memory, decisionmaking, and executive functioning are commonly associated with dementia
- When brain functions begin to decline, people commonly experience decreased quality of life

# SITE DESCRIPTION

#### Mission

"improve the lives of the people with disabilities through therapeutic horserelated programs" (NDR Therapeutic Riding, 2019)

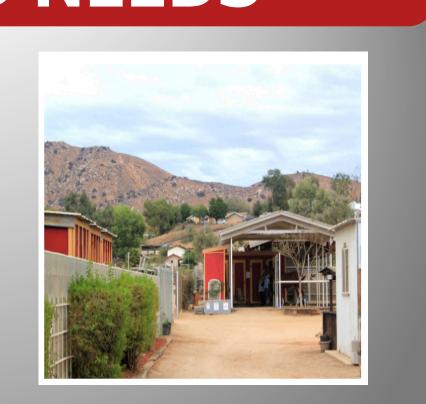
- A non-profit organization located in Norco, California
- Specializes in riding services to help people with various disabilities

# LITERATURE REVIEW

- Enhancement in socialization because of the natural tendency of animals to create a bond with people (Munoz et al., 2011)
- Laughed and interacted through touching significantly more (Pope et al., 2019)
- Improved active participation in leisure activity and daily activities (Wehofer et al., 2013)

# IDENTIFIED NEEDS

- 1. Program Expansion
- 2. Evidence for Equine-Assisted Activities
- 3. Increase Funding



# LEARNING OBJECTIVES

- 1. Implement an evidence-based research to evaluate the effectiveness of equineassisted activities for target population
- 2. Proficiently advocate for the benefits of equine-assisted activities to collegiate team
- 3. Demonstrate advanced knowledge on equine-assisted activities, and its impact on quality of life and relational skills

# PROGRAM DESCRIPTION

#### **Horses in the Moment**

- Nine-week program of equine-assisted activities for people with mild to moderate dementia
  - o 30-min. sessions, 2x/week

# Equine-Assisted Activities

Grooming
Walking with Horses

Painting on Horses

Feeding







# **METHODOLOGY**

### Recruitment

# Inclusion Criteria

- Ages 65-85Ambulatory
- Verbal
- Diagnosis of Mild to Moderate Dementia
- No Other Comorbidities

# Project

- Program
- Development
   Mixed-
- Methods
  Study
   Quantitative
- and Qualitative Data Analysis

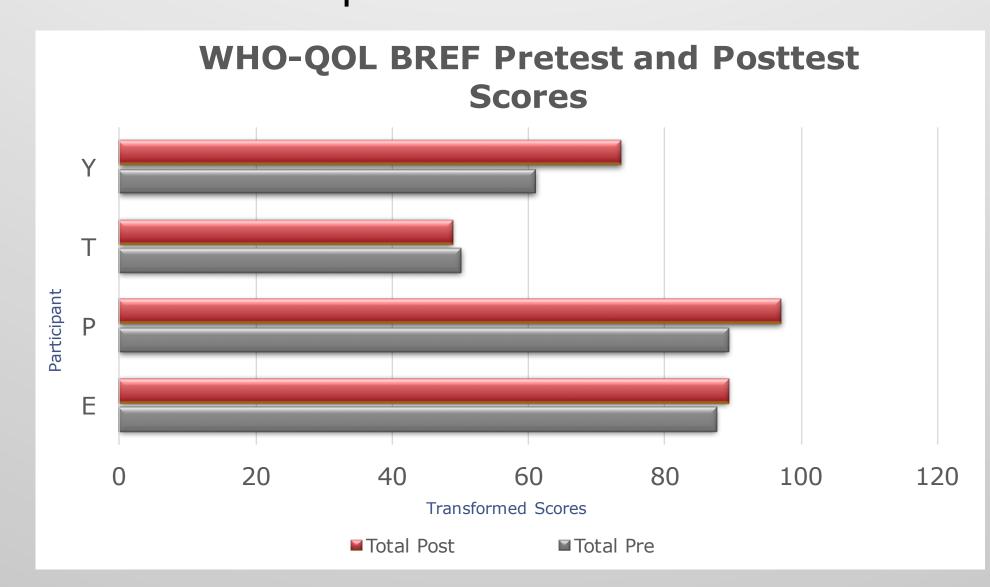
# **Evaluation**

# Four Participants

- WHO-QOL BREF
- Open-Ended
   Survey
- FeedbackForms

# OUTCOMES

Quantitative data analysis using JASP
 Total scores increased significantly from the pre-measure (mean=71.94) to the post-measure (mean=77.13) using a Paired Samples T-test



 Qualitative data were coded for emerging themes

# Outcomes from Caregivers

- Improvement in socialization
- Increase recall memory and attention
- Improvement in communication
- Increase in laughter

# Outcomes from Participants

- Increase relaxation
- Improvements in relationship
- Facilitatedsimplicity of lifeFacilitated
- feelings of empowerment

# **DELIVERABLES**

- Brochure
- Program Outline
- PowerPoint Presentation
- ActivitiesCompiled inPhysical Binder

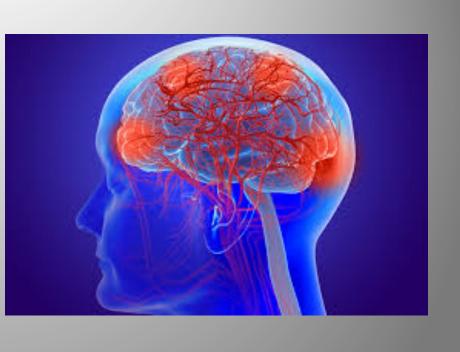


# **IMPLICATIONS**

- Equine-assisted activities can potentially be used as a media to intervention and a form of social participation
- Horses in the Moment advocated for occupational therapy in a nontraditional setting

# **FUTURE DIRECTIONS**

Future students can explore the impact of equine-assisted activities in memory and attention



## ACKNOWLEDGEMENTS

The entirety of this capstone project was supported by NDR Therapeutic Riding and the organization's volunteers. Thank you for the meaningful contributions of Donna, Martha, Tammy, Josselin, Dr. Sheth, Dr. Friberg, and Dr. Cipriani.

REFERENCES AVAILABLE UPON REQUEST