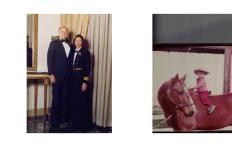
Comparison of Equine Assisted Riding and Driving Mary Jo Beckman

Bob, Tom, and me



Eight dimensions of Wellness

Ref: Northwestern.edu/wellness/8-dimensions

| ding/Driving Yes Yes Yes Yes Yes/No Yes/No |
|--|
| Neutral |
| |

1. Emotional 2. Social 3. Intellectual 4. Physical 5. Environmental 6. Spiritual 7. Occupational 8. Financial

Areas of Concentration

PHYSICAL (4)

COGNITIVE

EMOTIONAL (1) (2)

INTELLECTUAL (3)

COMPETITION

SAFETY

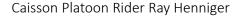
Physical

RIDING

RIDING • Physical expression of fine motor skills • Challenges gross and fine motor skills • By to hand coordination • State of the state of the state of the state • Core strengthy the state of the subting in runk stability • Riding astride at the walk moves the body as if the person is walking. • Horse's hip motion has the same three dimensional movements as a human's walk (up/down, forward/back, rotation) • Human hip movements are emphasized because that is the point of contact with the horse depending on gait. • Body needs to be flexible without rigidity to move in unison with the horse

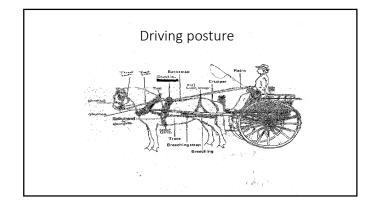
DRIVING

DRIVING • Physical exercise • Challenges gross and fine motor skills • Eye to hand coordination • Simulates vestibular senses • Upper body strength challenged through posture and holding reins and whip • Develops physical abilities to negotiate cones and cross country courses • Different types of movement input to the driver depending on vehicle and terrain (speed biumps or pot holes, pavement versus gravel versus dirt) • Trank stability is challenged depending on vehicle movement • Same posture is required for all gaits.







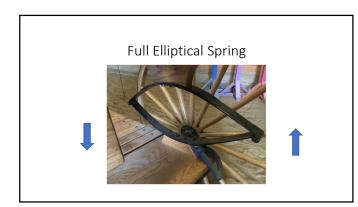


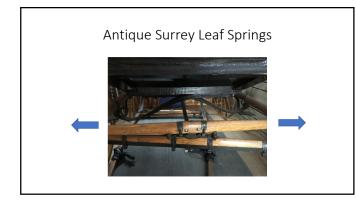


Vehicle motion/input to driver

- Cart (2 wheels) versus Carriage (4 wheels)
- Springs
- Tires Pneumatic Rubber Metal
- Terrain

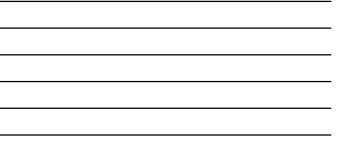
 - arena footing
 Roads (paved gravel dirt)
 Fields/pastures





Pneumatic tire and spiral spring





Pneumatic tires can have punctures!









Driving in the Antique Surrey Carriage





Cognitive

- **RIDING** Sequencing tasks Stimulates alertness Sensory rich environment Impulsive control Spatial awareness with equine on ground, mounted Focusing on task/skill

- DRIVING Sequencing tasks Stimulates alertness Sensory rich environment Impulsive control Spatial awareness with equine on ground, driving a turnout (equine hitched to vehicle) Focusing on task/skill, especially looking ahead

6

Entering/Exiting Turnout- Motor Planning



Assistive Devices for Entering/Exiting Turnout



Emotional

RIDING

- Pride and joy in accomplishment
 Positive interaction with an animal
- Interaction with Instructor and volunteers before/after/during
- vointeers before/alter/during riding Control of equine through hands, voice, weight which results in confidence and self-esteem

DRIVING

- Pride and joy in accomplishment
 Positive interaction with an
- animal • Interaction with Instructor and
- volunteers before/after/during driving

Control of equine through hands, voice, and whip which results in confidence, self-esteem
Voice modulation/control

Devora, Daffy, and Andy





Intellectual





Van den Heuval Carriage Purchased with donations from the US Driving Community Flown over from Holland Flownon Equine Assisted Programs until ransferred to Loudoun Therapeutic Riding program



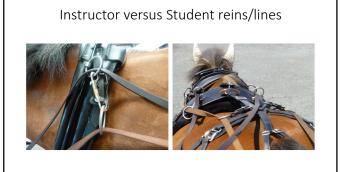


Amy's drive in Van Den Heuval Carriage



Amy has the reins/lines







Competition

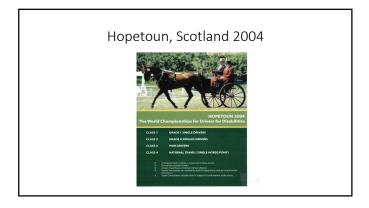
- **RIDING** Competition opportunities are in able-bodied events or in therapeutic riding shows. Para-Olympics have offered equestrian events since 1996 and there is a World Championship annually.

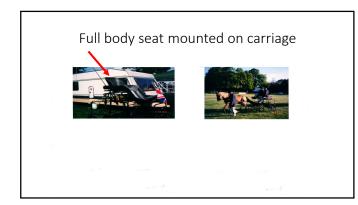
DRIVING

- Driving can be an option for individual who cannot physically sit astride or prefers an equine activity other than riding.
- World Championships for Drivers with Disabilities

Painting of Amy by Veteran







Safety

RIDING

Mounting/Dismounting
Equine spooks, emergency dismount can separate riding from equine.

DRIVING

- Driving is much more challenging for safety because driver cannot separate from vehicle
- Quick release connections
- Runaway Driver has to stay with turnout, otherwise equine can transition into flight mode
- since vehicle is chasing it.

Queen's 90th Birthday – Household Cavalry



Carriage departing Royal Windsor Show 2016





Riding horses pulling carriage

