

FlexAbility PLUS+ ..joint supplement









- Clinically tested high specification nutrient support for joints
- Largest and most comprehensive clinical trial of an equine joint supplement
- Conducted by Dr Rachel Murray of the Animal Health Trust in Newmarket
- 1.9kg = 5 weeks supply





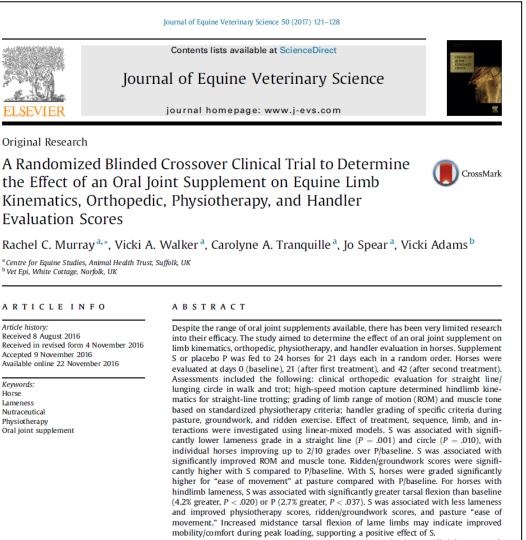
Composition

- Per 54g (500kg Horse Feeding Rate)
 - Glucosamine HCl 10g
 - Chondroitin Sulphate 4.1g (low molecular weight)
 - MSM 6.5g
 - Vitamin C 5.0g (as Ca ascorbyl monophosphate)
 - DHA 1.9g EPA 1.0g (Total Omega 3 = 2.9g)
 - Hyaluronic Acid (HA) 150mg









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Materials and Methods

- 24 mature horses
 - Ridden, groundwork and pasture exercise groups
 - Excluded
 - poor body condition
 - health problems
 - greater than 2/5 lameness







• Supplement S

- FlexAbility Plus, Science supplements

- Placebo P
 - Rice flour carrier + flavours only
- 21 days each
- Triple-blind crossover design
- Random order





Blinded evaluation

Day 0, day 21, day 42

- Orthopaedic evaluation
 - Straight line (0-10)
 - Circle
 - Flexion tests (0-3)
 - Ridden
 - HS motion analysis





Blinded evaluation

Day 0, day 21, day 42

- Physiotherapy
 - Range of motion



– Muscle tone



Blinded evaluation

Handler evaluation

- Field

-Groundwork







Consistent handler assigned per horse



Results: orthopaedic evaluation

- Supplement S vs Placebo and baseline
- Lower lameness scores walk + trot
 - Straight line p<0.001
 Circle p=0.007/0.01
- Improved gait features
 - Pelvic displacement p=0.04
 - Toe drag p=0.04
 - Circumduction p=0.001
- Flexion tests
 - Improved response p=0.008





Results: Physiotherapy evaluation

- Significant effect of treatment
 - S>P
- Significant effect of time
 - S and P → ROM + muscle tone > baseline

ROM

- Forelimb protraction
- Fetlock extension
- Hindlimb flexion

Tone

- Brachiocephalicus
- Long + Lat dorsi
- Gluteus med + sup
- Triceps



Results: Handler evaluation

- Ridden scores
 - Supp S > P
- Groundwork scores
 - Supp S > P
- Field scores

'Ease-of-movement'
Supp S > P

p=0.0003-0.04

Supp S > baseline

p=0.003-0.04

Supp S > baseline

p=0.004

Supp S > baseline



- Suitable for horses with existing stiffness or for feeding to support joints before problems develop
- No long loading period
- Improvement should be seen in 7-10 days on the loading dose

