



Ranvet NEWS

Issue 3

www.ranvet.com.au

March 2008

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PERFORMANCE DIGEST

INTERNATIONAL MARKET LEADER TESTIMONIAL

Potassium Plus soaring to new heights in **JAPAN**



"There are two prominent racing associations in Japan, the NRA and the JRA. Racing held by the Japan Racing Association (JRA) is the most popular horse racing in Japan with a betting turnover reaching three trillion YEN annually (some 3.22 billion AUD).

The JRA has two training centres one in the west and the other in the eastern part of Japan. The Ritto Training Centre in the west where I practice as a Veterinarian holds 2000 Thoroughbreds with an average of 300-400 horses participating in races held each weekend.

Japanese rules of racing state that all supplements used in training centres require approval by racing authorities.

The launch of Ranvet's **Potassium Plus**® has been invaluable to our racing industry as prior to this, veterinarians administered Vitamin B, salicylic acid and bicarbonate orally or by injection to assist horses with metabolic issues such as tying up, dehydration and poor performance.

The incidence of tying up and transient acidosis caused by lactic acid generated during strenuous training also brings about a reduction in the potassium ion level present in the cells. Blood work may indicate normal potassium levels however, this is not to say the intracellular (inter cell) potassium ion level in the blood is normal, and can often be low. To prevent muscle stiffness and fatigue, *calcium, sodium, potassium, magnesium and water* are the essential elements.

*I believe **Potassium Plus**® to be the most effective treatment for horses prone to tying up as horses readily recovered and their performance improved. Here in the Ritto Training Centre, **Potassium Plus**® is supplied to horses which display symptoms of tying up and muscle fatigue. It was not long before word spread of our success to the many training facilities in Japan where **Potassium Plus**® is now used."*

*Dr Kenichiro Tokimi D.V.M
(Ritto Training Centre, JAPAN)*

RANVET AUTUMN RACING RE-LAUNCH SPECIAL EDITION

Yes, it's that time of year again...the Autumn carnival is upon us and as a special edition "Ranvet Stakes Publication", the March issue of Performance Digest includes the re-launch of one of Ranvet's most popular products, **FOLIPHOS**®. Additionally, the March issue contains a **limited edition** double-page lift out of Ranvet's newly revised

**Supplements and Treatments
ideal for the stable**

**Special Edition Newsletter Including Ranvet's Revised
Supplements & Treatments Double page Lift-Out**

A Stable Must Have!!!

Covering Your Growing Needs

Ranvet 500 Plus®

Reared on Ranvet...

Ranvet 500 Plus
STUD FORMULA

Felix
Fastnet Rock (SIRE) x Midnight Ballet (DAM)
Foaled 25th August, 2006 Lot 236, 2008
Aus. Yearling Sale Breeder: Mr Paul Whelan,
Luskin Park Stud NSW

"A deficiency of protein will do more to suppress optimum growth rate than almost any other single nutrient group".
Dr. Percy Sykes AM,
M.R.C.V.S., M.A.C.V.Sc.

✓ Phosphorus
✓ Copper
✓ Zinc
✓ Added Vitamin E

IMPROVED FORMULATION

GROUP ONE
GRI
RANVET
HIGHEST QUALITY

Optimise foal growth by providing optimal levels of "High Quality Protein"

Not all proteins were created equal and ensuring high quality protein is of utmost importance in the growing foal ration. Ranvet 500 Plus® provides a unique and concentrated source of amino acids as well as key minerals associated with skeletal growth and development.

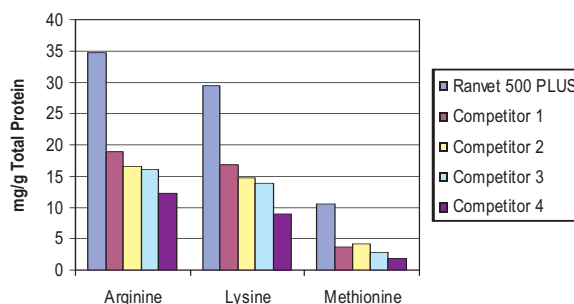
By way of definition, proteins are substances made up of a combination of smaller units called amino acids. Although all of them are needed for synthesis of body

protein, some can be produced in body tissues and do not need to be supplied in the feed or absorbed from the intestine.

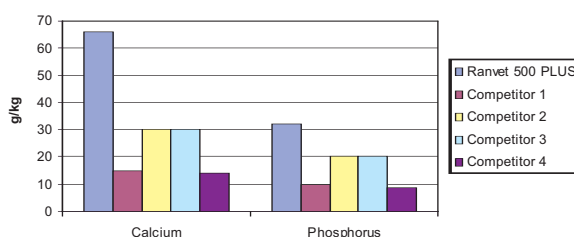
Ranvet 500 Plus®:

- A high quality protein supplement promoting optimal muscle development, bone growth and maintenance.
- Ranvet 500 Plus® has a unique amino acid profile, which provides the building blocks to lay down bone and muscle in growing horses, helps hold muscle condition on mature horses and keeps older horses looking young. The daily supplementation of Ranvet 500 Plus® will provide balancing nutrients for sound growth and excellent conditioning.
- The grain ration of the horse's diet can be varied when used in conjunction with Ranvet 500 Plus® depending on the energy requirements of the horse, while maintaining the required protein intake.
- Recently re-formulated in line with latest research which suggests that increasing levels of key minerals may reduce the incidence of developmental orthopaedic disease - enhanced levels of phosphorus, copper and zinc.
- Vitamin E now added in response to dry conditions and additionally, to enhance the immune response.

Amino Acid analysis



Calcium and Phosphorus levels

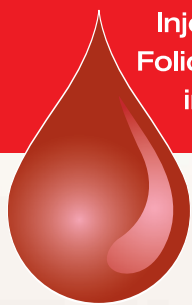


Foliphos Re-Launch

Foliphos

The **FAST WORK** factor

Injectable organic Phosphorus,
Folic Acid and Vitamin B₁₂ for an
improvement in performance



FOLIPHOS® provides high levels of available phosphorus and folic acid in combination with a long acting form of Vitamin B₁₂ to boost the natural levels of these vitamins in hard working, stabled horses.

Ranvet is pleased to announce the re-launch of the re-formulation of **FOLIPHOS®**. Formulated specifically for high performance horses.

FOLIPHOS® provides the following benefits to optimise performance;

FOLIC ACID & VITAMIN B12 for RED BLOOD CELL PRODUCTION

- Two B-complex vitamins, folic acid and Vitamin B₁₂ in combination are essential for red blood cell production in bone marrow.
- A sub-optimal red blood cell count, or anaemia, decreases the oxygen carrying capacity of the blood, leading to loss of stamina, fatigue and poor performance.

PHOSPHORUS for MUSCLE ENERGY PRODUCTION

- A high level of athletic performance requires efficient utilization of large amounts of energy for muscular contraction.
- ATP (adenosine triphosphate) is the ultimate energy source used by working muscles. During exercise, ATP is converted to ADP (adenosine diphosphate), which releases large amounts of energy to fuel muscle contraction. During this process, phosphorus molecules are used and in order for muscle contraction and exercise to continue, phosphorus stores need to be immediately replenished.
- **FOLIPHOS®** contains Butafosfan, a highly available form of phosphorus, that can be incorporated into high-energy phosphate complexes in body tissues and in particular, working muscles.

STIMULATE THE APPETITE

- **FOLIPHOS®** provides a Vitamin B₁₂ boost to maintain blood and liver Vitamin B₁₂ levels and help stimulate and maintain the appetite.
- Supplementation of Vitamin B₁₂ may also provide a beneficial increase in starch digestion in the stomach following the intake of high grain diets.

Foliphos is the ONLY PRODUCT which combines all three nutrients in a single, convenient injection



Supplements + Treatments



Supplements + Treatments - Equine

Abrasions	Spray Yellow Lotion on cuts or apply with cotton wool or dressing to major wounds.
Acid balance	Neutrolene / Neutrolene Plus neutralise excess lactic acid in tissues and blood.
After race recovery	Branch Paste or BC5A "branch chained amino acids" paste. Electro Paste or Rehydra .
Amino acids	Power Formula or Promix mixed in the feed. Branch Paste over the tongue.
Anaemia	Iron Plus super strength iron plus folic acid. Foliphos phosphorus, B12 and folic acid.
Anthelmintic	Anthelcide EQ palatable wormer, easy to administer over the tongue or mix in the feed.
Antiseptic-cream	White Healer treats bacterial skin infections including greasy heel.
Antifungal	Fungazol cream treats ringworm. Solepack an antifungal used on horse's feet. Dermaguard Medicated Wash an antiseptic wash.
Antioxidant	Muscle-E is a concentrated vitamin E supplement and potent antioxidant.
Appetite stimulant	Equitone is a perfect 3 in 1 pick me up tonic for horses with poor appetite. Humavyte 100% natural vitamin, mineral and trace element oral liquid supplement.
B vitamins	Salkavite provides an efficient daily intake of B-group vitamins, Batphol and Macrofol .
Bleeders	Rutin Mix is a mineral and vitamin A supplement with bioflavonoid for horses in work.
Bone growth	Folactin Blue for stabled and older horses. Folactin Red for horses at pasture. Folactin Red Plus fortified calcium, phosphorus, copper and zinc for sound bone development.
Calcium deficiency	Folactin Blue for stabled horses. Folactin Red for horses at pasture. Folactin Red Plus fortified calcium, phosphorus, copper and zinc for sound bone development.
Cuts	Yellow Lotion antiseptic/astringent wound lotion prevents proud flesh.
Dehydration	Lang's Solution , Electro Paste , Rehydra and Salkavite .
Digestion	Humavyte 100% natural vitamin, mineral and trace element oral liquid supplement.
Disinfectant	Virkon-S dissolves in water for a broad-spectrum action effective against 17 virus families.
Doser	Oral Doser 50ml re-usable syringe with brass canula. Drench Gun 70ml.
Drench electrolytes	Salkavite electrolyte supplement with added B-group vitamins.
Dull coat	Aminovite Plus multi-vitamin supplement and coat conditioner. Racing Oil . Humavyte 100% natural vitamin, mineral and trace element oral liquid supplement. Ulcer Treatment .
Electrolytes	Salkavite , Ranvet Electrolytes , Electro Paste , Rehydra . Use Salt Lick to stimulate thirst.
Energy supplements	L-Carnitine and Racing Oil maximise endurance and stamina.
Fast recovery	Electro Paste , Branch Paste or BC5A before and after strenuous exercise.
Girth rash	Ranvet's White Healer soothes, softens and guards against infection.
Greasy heel	White Healer antiseptic cream. Dermaguard Medicated Wash .
Growth - foals	Ranvet 500 Plus lays down dense bone and muscle. Folactin Red Plus fortified calcium, phosphorus, copper and zinc for sound bone development.
Hoof conditions	Hoof Food hoof growth promoter with high levels of biotin and organic zinc. Coronaid maintains healthy growth of hoof horn. Soothing Sole Pack fills the void between pad and hoof or tape to the hoof.

Supplements + Treatments



Supplements + Treatments - Equine (continued)

Injectable vitamins	Batphol B complex plus choline, Macrofol B12 plus folic acid, Foliphos phosphorus, B12 and folic acid.
Iron supplement	Iron Plus super strength, vitamin-safe formula.
Lactic acid	Neutrolene/ Neutrolene Plus essential buffer for muscle tie-up. Branch Paste or BC5A .
Liver function	Equitone assists the liver and overall development of fitness and stamina. Neutrolene Plus Choline .
Minerals	Folactin Blue and Folactin Red balance the minerals in a high grain diet. Complete Vitamin & Mineral Supplement , Salt Lick , Humavyte .
Mud fever	White Healer antiseptic cream.
Multi-vitamins	Aminovite Plus multi-vitamin supplement and coat conditioner with trace elements. Complete Vitamin & Mineral Supplement .
Muscle development	Power Formula (pelletised) builds and maintains muscle condition and Pro-Mix (extruded) balances the diet and increases protein utilisation.
Muscle enzymes	Branch Paste or BC5A .
Nervousness	Settle'em a mega B-group calming supplement helps to settle anxious horses.
Picky eaters	Equitone is a perfect tonic for young horses off their feed. Ulcer treatment , Humavyte .
Potassium	Potassium Plus liquid supplement mixed with the feed or syringe over tongue.
Pregnancy/lactation	Ranvet 500 Plus has balancing amino acids and minerals for optimal foetal growth. It extends lactation and improves milk quality. Ulcer treatment , L-Carnitine .
- Mares	
Rainscald	White Healer antiseptic cream. Dermaguard Medicated Wash .
Recovery	Salkavite , Branch Paste or BC5A before fast and after strenuous exercise.
Rehydration	Lang's Solution hypertonic intravenous infusion. Electro Paste , Rehydra or Salkavite .
Respiratory	Equine Aeromask nebuliser delivers oxygen or inhalant medication.
Ringworm	Fungazol anti-fungal cream for ringworm and other fungal infections. Dermaguard Medicated Wash .
Scours	Humavyte 100% natural vitamin, mineral and trace element oral liquid supplement.
Skin infection	White Healer antiseptic cream. Wash with Dermaguard Medicated Wash .
Sprains	Yellow Lotion soothing lotion applied to cotton wool and bandaged.
Stone Bruising	Sole Pack pads fills the void between pad and hoof.
Tying-up	Neutrolene , Neutrolene Plus an essential buffer for muscle tie-up. Branch Paste or BC5A .
Ulcers	Ranvets Ulcer treatment .
Vitamin injections	Batphol B complex plus choline. Macrofol vitamin B 12 plus folic acid. Foliphos phosphorus, B12 and folic acid.
Weaning - foals	Ranvet 500 Plus promotes sound growth. Folactin Red Plus fortified calcium, phosphorus, copper and zinc for sound bone development.
Wormer	Anthelcide EQ wormer you can drench or simply mix it with the feed.
Wounds	Yellow Lotion soothing lotion on cotton wool and bandaged avoids proud flesh.

Toll Free 1800 727 217
Australia Only

NUTRITIONAL CONSULTANCY SERVICE

'Minor alterations to feeding programs may result in significant economical benefit as well as significant improvements in performance'

Ranvet's team of professionals are trained to assist you in optimizing rations for your horse, based on least cost formulation and a review of all methods of feeding based on both premix and grain based rations.

Tailored specifically for each stable or individual horse, dietary assessment, evaluation and rectification can be conducted on the following:

- Energetic requirements dependant on the type and amount of work being performed (breed specific)
- Protein requirements dependant on stage of growth and energetic requirements
- Vitamin and mineral levels evaluation and correction
- Stereotypies addressed
- Prevalent issues such as 'tying up', bleeding, DOD/OCD, lameness, shin soreness, hoof defects, poor coat, respiratory ailments
- Rations are analysed via an extensive database system exclusively available to Ranvet clientele by qualified equine nutritionists. Ration analysis is multi-factorial and involves assessment of nutrient levels specific to the particular horse according to weight, age, level of activity, breed and temperament.

For further details on technical information, please see Ranvet's web page www.ranvet.com.au and click the link for diet evaluation and technical support.

If you have enquiries regarding Ranvet products or stockists, please contact National Sales Manager Paul Hoffmann on 612 0417 580 980.

Alternatively, you can contact the nutritional advisory department of Ranvet

Priscilla Spendlove (BScAgr Hons, PhD)
Performance Horse Nutritionist

AND

Caroline Foote (BScAgr Hons, MSc, PhD)
Consulting Nutritionist (Equine Consulting Services)



TOLL FREE 1800 727 217 (Australia Only)



HORSING AROUND

FEATURE ARTICLE



'EGUS'-Equine Gastric Ulcer Syndrome

Equine Gastric Ulcer Syndrome (EGUS) is common in performance horses and foals, with all ages and breeds being susceptible. Current therapeutic strategies focus on blocking gastric acid secretion and subsequently raising gastric pH (making the stomach environment less acidic). However, a more comprehensive approach involves not only pharmaceutical treatment, but rather the correcting of the underlying cause.

Diagnosis is based on history, clinical signs, endoscopic examination and assessment and response to treatment.

ANATOMY & PHYSIOLOGY OF THE EQUINE STOMACH

The majority of ulcers (80%) are found within the top third of the equine stomach, which has a non-glandular lining, meaning it is susceptible to erosion by gastric juices.

AGGRESSIVE FACTORS FOR THE DEVELOPMENT OF ULCERS INCLUDE:

- High grain/concentrate diets
- Insufficient roughage (hay provision)
- Repeated competition
- Extended traveling
- Continued competition
- Stresses of stabling
- Horses which have received high dose/long term medication with non-steroidal anti-inflammatories such as bute

SIGNS OF EGUS INCLUDE:

- Loss of appetite
- Dull/dry coat
- Excessive chewing of the bit/excess saliva
- Wind sucking/crib biting
- Eating dirt, sand or bedding material
- Anxiety, restlessness, un-cooperative behaviour
- Readily eating hay/chaff and picking out grain based feeds
- Teeth grinding

DIGESTING THE FACTS

- *Horses have small stomachs.* Size varies from 8-15 litres only – adapted for small, continuous meals
- *Horses secrete gastric acid continuously,* even when the stomach is empty, and when fasting.
- *Horses only salivate when chewing and eating.* Saliva is rich in the acid buffer, bicarbonate. Twice as much saliva is produced when horses eat hay or grass compared to grains and other concentrates.
- Management factors involved in gastric ulcer formation are **the type of diet and eating behaviour.** Restricting access to roughage, or feeding large amounts of concentrates/pellets, reducing the amount of time a horse has to eat roughage, all increase stomach acidity.
- *The aim is to keep food in the stomach as much as possible, to take up the excess gastric acid.*
- *Larger meals pass more quickly than small meals.* Stomach emptying is controlled by meal volume and passage time through the stomach may be as short as 15 minutes when a large, concentrate meal is eaten.

It is estimated that approximately 75-90% of racing horses and horses in training have gastric ulceration.

EGUS THERAPY & MANAGEMENT STRATEGIES

The goals of anti-ulcer therapy are to;

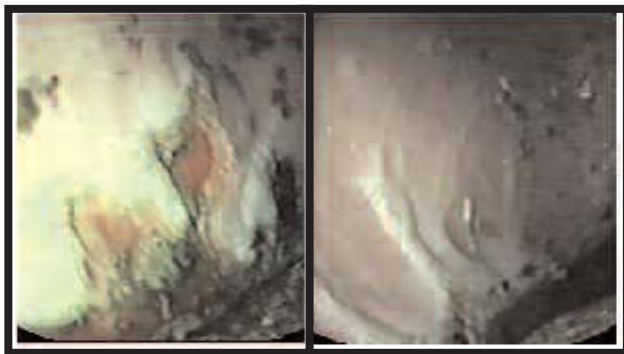
- Relieve pain
- Prevent secondary complications
- Prevent recurrence
- Promote healing

In addition to pharmaceutical preparations, it is advisable to practice sound management strategies such as;

- Allowing continual access to hay
- Minimising the use of corticosteroid preparations
- Minimising the use of non-steroidal anti-inflammatory drugs such as phenylbutazone (bute)

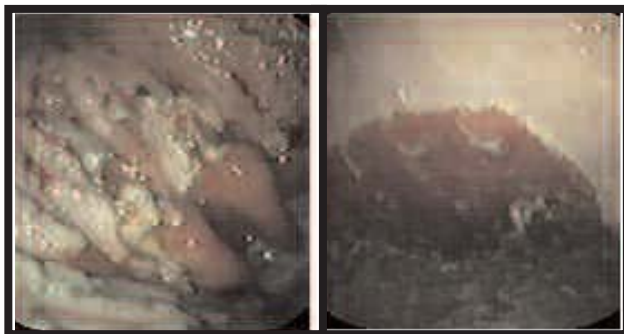


Science



Horse 1: (L)Stomach wall ulceration as seen by erosion of the white, protective lining. (R)Repair of the stomach wall lining following 2 weeks administration of **Ranvet's Ulcer Treatment**

Innovation



Horse 2: (L)Stomach wall lesions and tearing as seen by erosion of the white, protective lining. (R)Repair and regeneration of the stomach wall lining following 3 weeks administration of **Ranvet's Ulcer Treatment**.

Excellence

If you would like further information of **Ranvet's Ulcer Treatment** or information regarding Ranvet's video endoscopy gastric ulcer diagnostic service, please contact Ranvet directly.

Toll Free Nutritional Consultation Service

1800 727 217 (Australia) • ranvet@ranvet.com.au • www.ranvet.com.au