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# Equine Preventive Healthcare and Management

*“With love, comes responsibility”*

## Veterinarians' Clinical Update:

### Study Shows New Technology Reduces Colic and Diarrhea; Improves Growth & Performance

Over 120 U.S. veterinarians participated in a 3-year field study that supports six year's of clinical research with ReStore™, a product that increases digestive efficiency of horses. The purpose of this study was to demonstrate that ReStore™ was as effective under local field conditions as it was in the earlier clinical trials.



#### It's a Fact

- Preventive healthcare is a good investment.
- Dental care is one of the best ways to increase a horse's useful life.
- Dietary distress syndrome (DDS) is linked to many serious illnesses.

#### What researchers found:

Regardless of region, breed, use or diet, horses supplemented with **ReStore™** showed significant improvement in:

- Digestive efficiency measured by reduced clinical incidents of colic and diarrhea.
- Growth rate, body condition restoration and maintenance.
- Overall performance, regardless of athletic discipline.

#### How ReStore™ works:

It stimulates growth of naturally occurring bacteria of the hindgut; the bacteria the horse depends on to fully digest feed. These bacteria are vital to prevention of what vets call Dietary Distress Syndrome, or (DDS).

Since DDS can trigger a host of horse maladies, ReStore™ should be as integral to preventive medicine programs as routine worming and vaccination.

Data developed by this

study showed a strong correlation between horse health and consumption of readily fermented carbohydrates, i.e. starches and sugars found in grain-based concentrates.

**Clinical Update/p.2**

#### Horse Sense

**“The love for a horse is just as complicated as the love for another human being.... If you never love a horse, you will never understand.”**

**“The Horse.... If God made anything more beautiful, he kept it for himself.”**

## Severe and Mild Cases of “Tying-up” Need Dietary Changes

Horses with “tying-up” syndrome suffer severe muscle pain in the large muscle groups, mostly in their back and hindquarters. Some are so severely affected they can't move, others may even collapse. Though rare, some may even die. Symptoms of tying-up are easy to recognize. However, many horses

have a milder version with less obvious symptoms. Often they're not performing up to expectations, resist training, have a sorer attitude, are stiff while working, and have some back soreness. We recommend dietary changes for treatment of both mild and severe cases of tying-up.

### Carbs and Metabolism

Carbohydrates and starches play a critical role in metabolism. In some horses their metabolism within muscle groups, doesn't make proper use of carbohydrates as an energy source. As a result,

**Tying Up/p.2**

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## Preventive Healthcare Programs for Older Horses Offer Financial and Emotional Rewards

One of the best ways to get maximum return on your financial and emotional investment in the horse you love is a wellness program. Many veterinarians now offer programs designed specifically for older horses. The pay back is the joy of helping your horse live a longer, healthier, and more productive life.

### Genetic Potential

Studies show many horses 20 years or older are still

being ridden; some still competing. But even when the genetic potential is there, researchers stress that optimal care for older horses requires aggressive preventive medicine.

### Special Concerns

At Tufts University, North Grafton, MA studies with older horses found the gastrointestinal and musculoskeletal systems were the most common source of problems. Colic was the

most common clinical sign; lameness the next.

### Recommendations

Consult with your vet about a wellness program for your horse. It should include an annual physical and blood work, a vaccination and parasite control schedule, a dentistry program, and nutritional consultation.

The immune system of the older horse may not be as effective as that of a young horse. So, more frequent



vaccinations may be necessary.

To avoid dietary distress, feed Revolution-Rx™ the prescription diet fortified with ReStore™. If Revolution-Rx™ is not yet available in your area, feed ReStore™ as an oral supplement with your regular feed ration. This will enhance the horse's natural digestive process.

## Veterinarians' Clinical Update: ReStore™ Reduces Incidents of Colic and Diarrhea; Improves Growth and Performance/From p. 1

Veterinary literature links readily fermented carbohydrates with the induction of a diabetic-state. This condition has been associated with serious health problems such as Cushing's Syndrome, rhabdomyolysis, HYPP, and even long bone disorders in young horses.

In response to the problem, Biovance Life Sciences de-

veloped a concentrated nutrient source to serve as a "grain substitute."

As the product evolved, we recognized the need to marry the physiologic benefits of ReStore™ with this new source of nutrients that reduce the risks associated with starches and sugars in conventional feeds. This powerful combination was

introduced in 2004.

This new product, Revolution-Rx™, prescription equine diet fortified with ReStore™, is not available in all areas. Until it is, ask your feed supplier for a low glycemic index feed and fortify it with ReStore™. Or, have him contact us for details about an authorized dealer program for your area.

*Over 300 equine veterinarians now recommend ReStore™ to clients to enhance the digestive processes and improve the health and well-being of their horses.*

## Tying-up Cases Need Dietary Changes/From p.1

during exercise a large number of muscle cells run out of energy and die. *It's this cell death that causes soreness.*

Small grains have high levels of carbohydrates and starches. So, supplementing a horse prone to tying-up with grain only compounds the problem.

### Recommendations:

- (1) Remove all grain-based concentrates from the diet.
- (2) Feed grass hay.
- (3) Provide energy with Revolution-Rx™ prescription diet fortified with ReStore™ or try another low glycemic index feed that you can fortify with ReStore™.

### Revolution-Rx™

Revolution-Rx™ fortified with ReStore™ is a natural alternative to grain-based concentrates. It has a low glycemic index of only 43, but a caloric density greater than 1600 kcal/lb. to supply needed energy. For details email: info@biovance.com or visit www.biovance.com.

## ReSTORE™

### Nutritional Supplement

Clinically Proven to:

- **Reduce the risk of digestive upsets such as colic and chronic diarrhea**
- **Improve growth rates**
- **Restore & maintain body condition**
- **Aid in maximizing performance.**

Write, call or email Biovance Life Sciences, Inc. for literature and your delivered prices.

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