

MD's Choice, Inc. Presents: Critical Care Meals™

Indications: To Provide nutritional support and therapy to dysphagic, hypophagic, anorexic, or malnourished equine patients of all ages.

This four part feeding program provides highly concentrated, highly digestible nutrients in a both flexible and convenient manner. All components of the Critical Care Meals™ may be mixed together, or used independantly. The total program has a fat content of less than 2% so that it can be used in the face of compromised (or underdeveloped) liver function. In cases where hepatic encephalopathy is a concern, the protein and amino acids contributed by Parts I, II, and III are very highly digestible and will contribute very little to the waste N load.

This feeding program can be used in a wide variety of cases. Parts I, II, and III work well with pre-weaning age foals. In addition to the critically ill, dysphagic patients (traumatic or infectious origin) and perisurgical cases benefit from the nutrient dense feeding program.

This feeding prgram provides the concentration & flexibility to be used in both the hospital and ambulatory settings. A 1000# patient can be given as little as 2 meals, through an nasogastric tube, per day, providing 100% maintenance protein and calorie requirements (with 1/2 pt cornoil added per meal). These meals also provide substantial amounts of the amino acids that are rate limiting for wound healing and direct energy sources for enterocytes. Futher, Part II also provides highly bioavailable form of minerals, trace minerals, vitamins and antioxidants.

Contraindications:

This feeding program is designed for short term use, it does not provide enough fiber for ongoing maintenance. Some amount of support can be provided in almost all situations, except for complete GI obstruction or the presence of reflux through the nasogastric tube.

Species:

Equine

Storage:

Store at -17.8° - 30°C (0°-86°F)
Protect from light.
Two year shelf life on all Parts.

Parts I & II packaged in small units so unused portion has maximum storage life. Parts III & IV are in resealable, air-tight containers. Low fat content prevents rancid product.

Active Ingredients:

See each "Part" for specific ingredient listings.

Dosage:

Variable, depending on Age, Weight, and Metabolic condition. General Instructions found on each part listing (see reverse side for more details).

An adult horse can recieve full maintenance calories and protein in as little as 2 two gallon feedings.

Administration:

NasoGastric Tube, Syringe, fed as a Gruel, or Top-Dressed depending on the Part and Patient Condition.

A case study based on this feeding program was presented both as an oral presentation at the 2002 AAVN Clinical Nutrition and Research Symposium, at the ACVIM meeting, and as a scientific poster presentation at Nutrition Week 2002 (the largest Clinical Nutrition meeting in the world).



Features and Benefits:

- * Concentrated, flexible, therapeutic nutrition
- * Cost effective, intensive support
- * Customizable to many situations
- * Targets specific needs and metabolic conditions.
- * Human-grade Vitamins, Minerals, Trace Minerals and Antioxidants
- * Fat is contraindicated in many critical patients. By leaving the fat out, a greater opportunity for customization exists.
- * Used in all ages from new borns to the geriatric.
- * Get nutrition into surgical cases more quickly
- * Adequate carbohydrate intake results in protein sparing and decreased hepatic lipidosis
- * Hypoproteinemic and anemic cases respond well
- * Extremely high biological value protein
- * If agitated, the contents can pass through a bilge pump, funnel and stomach tube easily.
- * Flexibility in nutritional support that was not previously available
- * Addressing nutritional needs in critical equine patients improves prognosis and decreases hospital stays

Call 800.628.0997 to customize a feeding program for any case.


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Note: see other side for testimonials and more details.


MD's CHOICE
NUTRITIONAL PRODUCTS

Packaging, Cost, and Basic Instructions:

PART I-Liquid Meal

- * 2 packets per Adult serving; 40 packets per box
- * 2 packets are completely soluble in q.s. 1 gallon warm water; Max temp=100 degrees F;
- * Let incubate at room temp or greater 1 hour; Discard unused portion after 24 hrs.; Refrigerate
- * 4 packets provide: 4263 Kcal energy and the equivalent of 245g protein
- * 12% Protein (whey based), 73% Carbohydrates (mainly glucose and galactose), 1% Fat;
- * This yields (1000# horse) 45% maintenance protein and 31% maintenance calories
- * Max 2 packets per meal & 6 pkts per day (adult); Each packet contains 340g (dry powder)
- * Absorbed in the proximal small intestines
- * Administer to hypoglycemic newborns



PART II-Liquid Vitamin, Mineral, Trace Mineral, Antioxidant

- * 30 packets (1 oz each)
- * 3 ounces per 1000# adult per day (3 packets)
- * Human grade oral liquid product
- * Ingredient list available and on box. All mineral content listed in elemental amounts.
- * No refrigeration needed and will not freeze
- * Ease of administration
- * Can be easily used in both ambulatory and hospital settings.
- * Highly palatable

PART III-GI Support

- * Adults - 2 scoops 2x per day (135g); Foals 3/4 - 1 scp 2x per day - 1350g dry powder per jug
- * A proprietary blend of nutrients, specially designed to support the equine GI Tract.
- * May be used in all GI cases, not just critical care
- * Strongly recommended in GI surgery cases
- * May be used alone to support the Digestive Tracts of non-dysphagic equine patients of all ages.
- * Provides large amounts of: L-Glutamine (direct energy source for enterocytes); L-Arginine (rate limiting amino acid in wound healing); N-acetyl-D-Glucosamine (does not leave the digestive tract, is incorporated into the mucosal lining); Carnitine (amino acid used in clearing hepatic fat) the pre-biotics Amaferm and Yeast (for support of the normal GI flora); Salt
- * Amino acids such as arginine, carnitine and glutamine contribute to glycogenesis.
- * Arginine is rate limiting in wound healing and inhibiting the development of neoplasia.
- * Carnitine stimulates protein synthesis and accelerates fatty-acid oxidation, which lowers lactic acid production.
- * Carnitine has also been shown to reduce hepatic fat in several species, through lipoprotein production.
- * Glutamine is an important energy source for enterocytes and renal cells.
- * During periods of stress glutamine serves as the primary precursor for glutathione, a powerful antioxidant.
- * N-acetyl-D-glucosamine is a structural component of all mucosal surfaces



PART IV-Suspendable Feed Mix

- * 35 pounds per air-tight resealable bucket
- * This ground feed mix, when added to water at the time of feeding can be readily delivered through a normal equine NG tube (agitate while feeding)
- * Mix up to 2# with 1.5 gallons of water (1 gallon may be Part I); rinse bucket and tube with additional 1/2 gallon water
- * Max 1# feed per 500 # Body Weight per feeding; Max 6# per average adult per day
- * A good transition back to normal feedstuffs. It contributes very little to fermentation, but does introduce some solids and fiber to the GI tract.
- * Part IV can be considered 1/2 Forage and 1/2 Concentrate (13.9% Protein, 2.4% Fat)
- * 2 Adult Servings (2# each) provide (1000# horse): 46% (252g) maintenance protein and 41% (5560kcal) maint. calories

Testimonial:

I use MD's Choice's Critical Care Meals on foals with diarrhea, to keep the caloric intake up. When they are stronger, which this product helps them become, they respond to therapy, which helps them get over a variety of sicknesses much quicker. It is used to keep the strength up, to keep them eating, to help maintain their digestive functions. It goes through a tube easily, and is conveniently packaged to use in the field when needed. I use it on ALL foals that are getting antibiotic therapy. As for the adults, I regularly use it on horses with colitis and anteriorenteritis. Again, MD's Choice is offering a one of a kind product, and considering what it does easier, faster, and better than anything else, it is priced very reasonably.

- Dr. John Bennett, DVM - Resident Veterinarian - Lytle Creek Breeding Farm, Murfreesboro, TN