Geriatric Nutrition

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A Little Long in the Tooth...

- Wild horses live to about 15 yrs old
- Domesticated horse live to 25-30

 About 10% of horse population is over 20



A Little Long in the Tooth...



Extra 10 yrs can be very productive and enjoyable

Big \$ for aged geldings

Challenges

Equine vs Human Age

- 1yr. = 4 yr.
- 10 yrs. = 30-40 yrs
 - 15 yrs. = 50 yrs
 - 20 yrs. = 60 yrs
 - 25 yrs. = 70 yrs
 - \bullet 30 yrs. = 80 yrs

• Ratio changes from 1:4 to 1:2.7 !!

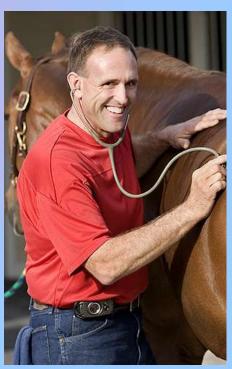
Keys to Long Life

- Genetics
 - Inherited disorders/predispositions
 - Breed specific?
- Environment
 - Climate and exposure
 - Stress and level of production



Keys to Long Life

- Healthy lifestyle when younger
 - Proper healthcare
 - Avoidance of life threatening diseases/disorders
 - Deworming
 - Hoof care



Keys to Long Life

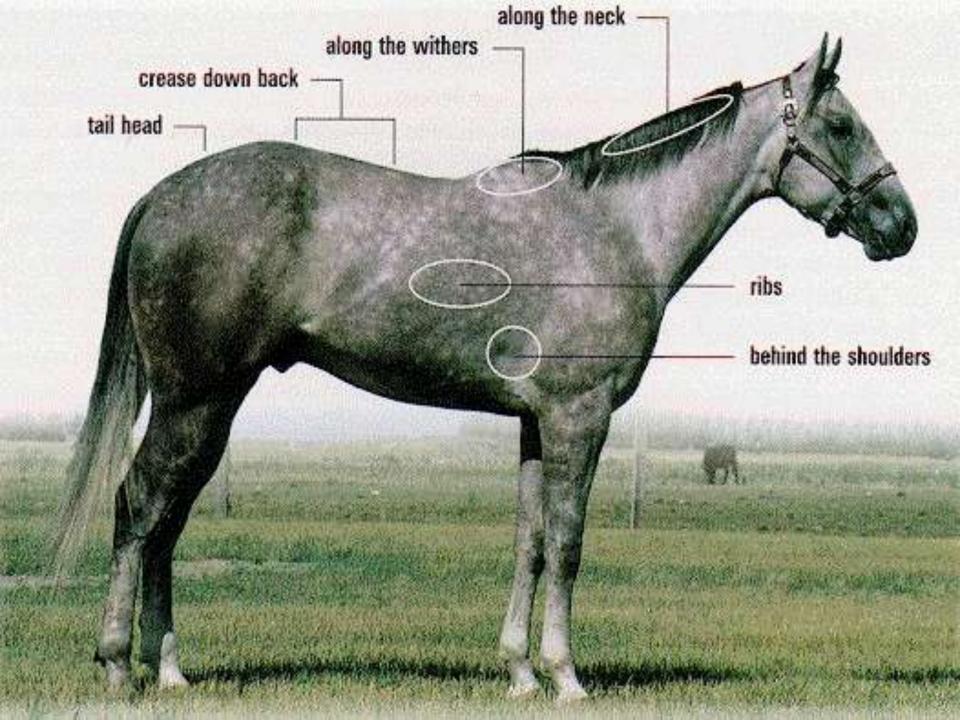


- Dental care
 - Throughout life
 - In senior yrs

- Maintain BCS
 - 4-6 ideal for this age range
- Nutrition
 - 1.5-2% **BW** in roughage

Body Condition Scoring

Score	Description
1	Extremely Emaciated
2	Very Thin
3	Thin
4	Moderately Thin
5	Moderate
6	Moderately Fleshy
7	Fleshy
8	Fat
9	Extremely Fat







Realities of Old Age

- The extended life is going to include complications
 - Digestive tract health
 - Chronic pain
 - Metabolic imbalances
 - Dental abnormalities

Dietary Needs



- Components of ration are the same
 - Forage
 - Minerals and Vitamins
 - Concentrates
- Variety of products for different needs

Forage Portion

- Long stemmed hay
 - Grass, alfalfa or mix
 - Gut health
 - Chewing difficulties
 - High protein alfalfa may be a problem
- Hay cubes
 - Grass, alfalfa or mix
 - Soaked if necessary



Forage Portion



- Chopped forage
 - Many different formats
 - Increased enhancements
 - Mold issues/not insiled
- Fiber alternatives
 - Beet pulp
 - Advantages and disadvantages

Minerals and Vitamins

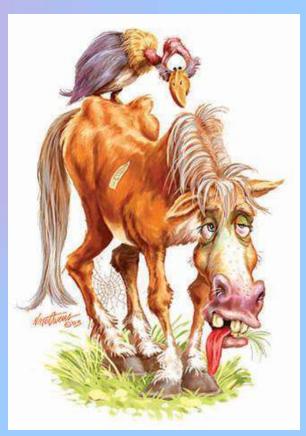
- Function and importance
- Salt still necessary for hydration
 - Loose mineral or formulated feed
- Ca:Ph ratio still important
 - **1.5:1**
- B Vitamins
 - Stressful or comprised health may cause horse to not produce as much
 - May help with renal disease

Minerals and Vitamins

- Antioxidants
 - Defense against aging
 - Can slow down process by feeding
 Vitamin E and Selenium
 - Zinc and Copper are also antioxidants,
 best in 3:1 ratio

 Senior feed is huge market with many different products

- Have a common theme
 - High fiber
 - Easy to chew
 - Palatable
 - Higher fat





Grain = more concentrated calories

Overwhelming, need a processed feed that has begun to be broken down

In sweet feeds this means crimped, steamed, flaked, etc.

- Pelleted feed is even more broken down, but not low quality
- Usually includes beet pulp and other fiber sources
- May need to be soaked for easier chewing



- Extruded feed is assumed to be the most digestible
 - High pressure and temperature

- Different process and texture
 - Palatability
 - Little molasses
 - Made into mash

Summery

 Aging process is inevitable however we can slow it down

Proper care throughout life is essential

 Nutrition is just one portion but can have a great effect on quality of life

Questions?

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