

## **ABSTRACT**

### **THE ROLE OF NUTRITION ON THE PERFORMANCE AND HEALTH OF RACE HORSE IN YOGYAKARTA**

Imam Abror

Race horse is a cross-breed of Indonesian Mare and a Thoroughbred stallion until several generations. Increasing the population of the race horses has to be balance with the good nutrition and feeding management in order to get better performance and health. The objective of this research was to determine the interrelationships between nutrient content in the horse feed ration and their performance and health. Six race horse feed rations collected from different stable in Yogyakarta were analyzed for calories, fat, protein, calcium (Ca) and phosphorus (P) concentrations in the Biochemistry laboratory, Inter University Center Food and Nutrition, Gadjah Mada University, Yogyakarta. The analyses results were as followed: calories  $3940,175 \pm 176,24$  kcal/kg; fat  $5,68 \pm 1,90\%$ ; protein  $11,75 \pm 1,94\%$ ; calcium  $0,23 \pm 0,17\%$  and phosphorus  $0,56 \pm 0,14\%$ . The results were then compared to the standard requirement of those nutrients for the race horse as recommended by the NRC and to the diseases that were reported and handled by Pordasi Veterinary Clinic in 2010. Based on the comparison result could be concluded that the nutrition quality for the race horse in Yogyakarta was below the standard requirement for optimum activity and health.

*Keyword : racehorse, nutrients, management, disease*