

NUTRITION & HEALTH

April 12-14, 2018 | Amsterdam, Netherlands

The utilization of manure degraded by *Hermetia illucense* L (*Diptera: Stratiomyidae*) in diet on blood lipid profile of native chicken

Marie Najohan, Heidy Manangkot, Betty Bagau, Selvie D Anis and Oldy Pinontoan
Sam Ratulangi University, Indonesia

Blood lipid profiles such as triglyceride, LDL, HDL and cholesterol total plays an important role on native chicken meat quality. The high or low blood lipid profile can be manipulating by diet. The aims of this research were to evaluate the utilization of manure degraded by *Hermetia illucens* L in diet on blood lipid profile of native chicken. One hundred birds four months of age were allocated into 4 treatments and 5 replications. The treatment was R1: diet 15% fish meal+0% manure degraded meal, R2: diet 10% fish meal+5% manure degraded meal, R3: diet 5% fish meal+10% manure degraded meal and R4: diet 0% fish meal+15% manure degraded meal. Data were analyzed by analysis of variance (ANOVA) according to Completely Randomized Design and followed by Duncan's Multiple Range Test. Feed and water were given *ad libitum*. Variables measured were: triglyceride, LDL, HDL and Cholesterol total. The results showed that R3 treatment significant ($P<0.05$) lower in triglyceride (47.15–59.66mg/dl), LDL (45.68–81.06mg/dl), cholesterol total (124.98–155.97mg/dl) compared with other treatment. On the other hand, R3 treatment has a significant higher content of HDL (75.85–86.28mg/dl) compared to other treatment by utilization of manure degraded meal in diet. It can be concluded that utilization of manure degraded by *Hermetia illucense* L meal can be used up to 10% in diet to ensure the quality meat of native chicken.

Biography

Marie Najohan is a Lecturer at Faculty of Animal Husbandry, Sam Ratulangi University, Manado, since March 1976. She has completed her Bachelors in 1976, Faculty of Animal Husbandry Sam Ratulangi University. She did her Masters in Animal Nutrition, Graduate School, Padjadjaran University Bandung and her PhD in Animal Nutrition, Graduate School, Padjadjaran University, and Bandung. She is a Professor in Animal Nutrition and Feed since March 2005.

najohanmarie@yahoo.com

Notes: