Abstract

Carbofuran exposure during embryonic development inhibit ChE and lead to abnormal growth of chicken bone. This research aims to identify the effect of carbofuran exposure to chicken embryo on growth of chicken bone during embryonal stage. This research used Randomized Complete design with 3 treatments and repetition with 10 fertile eggs each. The control eggs, were injected 0.1 ml NaCl physiologic 0.09% to each egg. All of eggs were stored into incubator in 38°C and 60 – 80 % humidity. Observation to growth of chicken bone were carried out in one day and 14 days after hatched using coloration Alizarin to see the bone disparity. The exposure of carbofuran in degraded dose resulted in the fusion of vertebrae cervicalis, sum up the costae, amount of bone phalanx no significant differences ($p > 0,05$), amount of procesus uncinatus was significantly difference ($p< 0,05$).

Key words : Chicken Embryo, Carbofuran, growth of bone.