



### ABSTRACT

The study determined the histological effect of counterfeited cosmetics on the kidney, liver and skin of albino mice using topical administration for 90 days. This research followed a Randomized Complete Block Design (RCBD) using the limiting dose (1000 mg/kg body weight). There were three treatments used, T0 (negative control), T1 (Genuine cosmetics), T2 (Counterfeited cosmetics) and tween80 was used as a vehicle. Histology observation on the liver, kidney and skin of the albino mice were done using a photomicroscope and analyzed using toupView. The results shows that microscopic changes was more prominent in kidney, followed by liver and skin of treated mice. Pathological alterations in kidney, liver and skin were more prominent in counterfeited cosmetics than genuine cosmetics, thus it is recommended not to use counterfeited cosmetics due to its high or beyond accepted levels of toxic heavy metals. Excessive and prolong use of genuine cosmetics is also not advisable as toxic heavy metals accumulate in body tissues over time that could result to deleterious effects in the organs.

**Keywords:** Pathology, Histological effect, liver, kidney, skin, Counterfieted cosmetics, Genuine cosmetic, *Mus musculus*, *Heavy metals*.