



Effect of *Holothuria leucospilota* extract against gastric ulcer in Rat

Shahrokhi S.*¹; Moradi Y. ¹; Esmaeili F. ¹

1- Iranian Fisheries Science Research Institute (IFSRI) - Tehran,
Agricultural Research Education and Extension organization, Iran.

*Corresponding author's email: sussan.shahrokhi@gmail.com

Abstract:

Sea cucumber (*holothuria. Leucospilota*) is a marine invertebrate in phylum Echinodermata, which has many nutritional and medicinal properties. This marine animal is rich in vitamins and polysaccharides, is used in the treatment of wounds, eczema, arthritis, high blood pressure and etc. this research aimed to investigate the prophylactic and curative effects of *holothuria. Leucospilota* extract (H&E) (150 and 200 mg/kg) on gastric mucosal damage following indomethacin and cold stress in healthy Rats. 40 Rats were randomly divided in four groups. The first was control group that ate distilled water orally. The second control group ate indomethacin (150 mg/kg) orally and exposed to cold stress for 30 min to induce gastric ulcer. The third group and fourth (test group), were exposed to gastric ulcer and then treated with H&E (two doses 20, 25 mg/kg). The period of survey was 14 days. On the third day, the second, third and fourth groups died and the control group were left. The results showed that Rat of the first control group were healthy because they hadn't have any dose of indomethacin injury but second, third group and fourth were died. The cause of this mortality may be in high injury (by indomethacin) that didn't cure with H&E or the inappropriate H&E doses. The lower injury by indomethacin or higher doses of H&E may be stop the gastric ulcer and is needed to more studies or investigation

Keywords: *Holothuria leucospilota*, extract, gastric ulcer, Rat