SERODIAGNOSIS OF GOAT WARBLE FLY (GWF) (DIPTERA : OESTRIDAE) INFESTATION USING BY A COMPETITIVE ELISA

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Abstract – Goat warble Fly Infestation (GWFI), improperly named goat hypodermosis is a myiasis caused by larvae of Przhevalskiana sp. Its economic impact is sever and in alive animals, detection can be done by clinical examination of infested goat directly and palpation of larvae in the back or seeing the larvae under the skin (sub dermal region of back and flanks) of infested goat of other slaughtered. Recently serological methods used for immunodiagnosis of hypodermosis in different animals. In the present study we describe a competitive ELISA for the detection of antibodies of przhevalskiana larvae in goat sera. Totally 32 sample sera from infested goat, 42 sera from uninfected goat and 72 sera from filed sampling (random sampling from different parts of Khoozestan province) were tested. Finally, sensitivity and specificity at cut off 2SD were 81.25% and 78.57%, and in cut off 3SD were 84.37% and 80.95%.

Key words : Electrophoresis, ELISA, Przhevalskina.