

ABSTRACT

Key - words : Acupuncture points, profile, rabbit, signal transduction

A laboratory experiment on rabbit (*Ornythologus cuniculus*) is performed to observe acupuncture points signal transduction profiled on leg. The objective of this study is to detect and measure acupuncture points voltage profile by computer software, and migration activity of isotope technetium pertechnetate by *SPECT (Single Photon Emission Computerized Tomography)*.

The pre test - post test control group were designed and used in this study; independent variable was injected with calcium antagonist verapamil and isotope technetium pertechnetate solution intra acupoints, dependent variable were profiled and the migration activity of technetium pertechnetate isotope.

The results showed that verapamil and technetium pertechnetate isotope could influence the voltage profile and migration activity of technetium pertechnetate isotope on the leg of the rabbits acupuncture points, such as

1. To decrease voltage profile of acupuncture points verapamil solution whereas isotope technetium pertechnetate increase the influential voltage profile of acupuncture points.
2. To increase migration activity technetium pertechnetate isotope which is increased under the influence of verapamil solution.

The calcium antagonist solution verapamil-blocked electron current from acupuncture points and technetium pertechnetate isotope increases electron current from acupuncture points.

DAFTAR SINGKATAN YANG DIGUNAKAN DALAM DISERTASI

	SINGKATAN	KETERANGAN
<i>SPECT</i>	<i>Single Photon Emission Computerized Tomography</i>	
ITP	Isotop Teknesium Perteknetat	
mV	mili Volt	ukuran satuan tegangan listrik
μCi	mikro Curie	ukuran satuan bahan radioaktif
ml	mili liter	
ACP	<i>acupuncture point</i>	titik akupunktur
μF	mikro Farad	ukuran satuan kapasitor
k Ω	kilo Ohm	ukuran satuan hambatan
R	hambatan (impedansi)	
ATP	Adenosin tri fosfat	
ADP	Adenosin di fosfat	
AMP	Adenosin mono fosfat	
Na ⁺	ion sodium	
K ⁺	ion kalium	
Ca ⁺⁺	ion kalsium	
KeV	Kiloelektron Volt	ukuran satuan radiasi
RNA	<i>Ribo nucleic acid</i>	
P	pengukuran	

SD	Standar Deviasi
pi	fosfat non organik
db	derajat bebas
t	waktu