

According reaction
incorporates few
randomized
controlled
examinations



According to the data analysis in the current study, the results of the first group (sternal pump and recoil techniques) revealed that there was a non-significant improvement within groups in the values of absolute CD4 and WBCs count, P value <0 .

05. Similarly, results showed an agreement with Firsova¹¹ studied the efficacy of recoil technique on the cardiovascular and the respiratory systems. The result was significant on systolic blood pressure, the study concluded in there was a change in blood pressure after application of recoil technique.

There are no studies related to blood counting or lymphocytes according to sternal techniques however they have a vegetative effect on the circulatory system. Regarding the effects of the second group (TLPT&SPT) on immune system: According to the data analysis in the current study, the results of the second group (TLPT&SPT) revealed that there was a significant improvement within groups in the values of absolute CD4 and WBCs count, P value <0.05 .

Breithaupt et al¹² examined the impact of LPT on the immune reaction incorporates few randomized controlled examinations researching the impact of LPT on immune reaction to vaccination, the study concluded that application of LPT with flu immunization enhanced general immunity.

Mesina¹³ studied application of LPT on seven normal subjects and the study showed an increase in the basophils, WBCs counts. Hodge et al¹⁴ TLPT has been shown increase in blood leukocyte numbers of macrophages, neutrophils and CD4⁺ T-cells in both thoracic and mesenteric duct lymph.

Leukocytes released from mesenteric lymph nodes by the effect of TLPT into thoracic duct lymph and stimulates flux of leukocytes in mesenteric duct

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lymph and thoracic duct lymph. Measeland Kafity¹⁵ studied the pump techniques and showed an increase of WBCs count, B cells and T cells, this explain the important role of spleen in the immune system.

Castlio and Ferris-Swift¹⁶ studied the efficacy of different compressions to spleen for different times ranging from 1.5 to 5 minutes for 21 compressions /min and the study showed increase in the leukocytes count in almost all cases. McMillan et al¹⁷ studied TLPT and showed that TLPT enhanced thoracic duct lymph and leukocyte concentrations in dogs and rats. Rockson¹⁸ TLPT and intestinal motility exerted during SPT increase lymphatic transmural pressure due to compressing lymph vessels so the lymph flow increased consequently.

Nollet al²² examined the importance of osteopathic treatment protocol including the thoracic lymphatic pump on elderly resident patients in hospitals who suffered from pneumonia, the results were significant difference in the rate of change in WBCs counts between days 1 and 3, also he dedicated it to the spleen that acts as a reservoir of antibodies and leukocytes that expelled into circulation by contraction of the spleen. This augments importance of