

Does Exercise Training Moderate the Effects of Ageing on Health

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Abstract : The interaction of health and athletic performance with biologic aging has been an interesting and intriguing area for research. There has been a general acknowledgement of its importance to major public health and elite performance outcomes. There are many questions unanswered about the mechanisms of effects and dose-response changes. An attempt has been made in this paper to highlight potentially positive effects of regular training on the aging process and its effects on health. Age associated decline in health and performance results from the combination of the aging process itself, inactive lifestyle and primary diseases. An attempt is made in this paper to critically review what is known and what is unknown about evidence based changes, common to disuse and aging. Mechanisms responsible for the slowing decline in muscle mass and muscle force (sarcopenia) down of age - associated, weakness and fatigability due to year round athletic training have been discussed. It is in this regard we have attempted to share our views on advances made so far in understanding the impact of aging on health. We also attempted to explain how the biological effects of aging are minimized during appropriate year round athletic training. On the basis of available research evidence it was concluded that exercise training significantly slow down the deleterious effects of aging on health.

Keywords : aging, atrophy, sarcopenia, plyometric training

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