

Left Ventricular Performance Following Swim Training in Egyptian Wheelchair Swimmers.

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Abstract

Introduction: Athletes with special needs represent a growing population of sports participants. The Special Olympics is an international organization dedicated to empowering individuals who have physically and intellectual disabilities to become physically fit through sports training and competition. Subjects with paraplegia and amputation don't use their legs in their daily lives which may affect myocardial efficiency. According to the law of use, so, not using the legs is considered to be amongst the factors affect the cardiac deficiency in general. **Purpose:** The aim of these study is determined and compared myocardial responses to intensive training (IST), 24 weeks, 6 times per week, 120 min per unit in male wheelchair swimmers (amputee vs. paraplegic). **Results:** All analyses were performed by spss, mean \pm S. D, t. test estimated differences between the two groups and % improvement. There were significant differences for myocardial parameters and max vo2 (L/min) after (IST) for both groups. The significant observation in this study indicates that below-knee amputated swimmers showed a greater improvement in myocardial parameters and max vo2 than paraplegic swimmers.

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Biography

Prof. Dr. Magdy Abouzeid is Professor of sport science, physical education at the University of Alexandria University, faculty of Sports Education, Egypt. He received a PhD (1983) in Physiology of exercise training from Alexandria University, Egypt. He has authored over 100 publications in sport science, sport pedagogy, and adapted physical activity, and has edited several books in the area of Aquatics sport training. Dr. Magdy abouzeid is Vice President of International Throw ball Federation, member of world organizations and institutions of sport, member of scientific committee and reviewer for the "Ido movement for culture, Journal of martial Arts Anthropology, Member of Egyptian universities Promotion committee (EUPC).

Dr. Magdy was an IOC research scholarship winner, the Award of the 2008 ICSEMIS Committee (China, Guangzhou). His current research interests include adaptation to exercise training, training in young athletes, sports and pediatric cardiology Aquatic sports training and its effect on functional capacity, sport for peace and development and another Paralympic research,