TECHNOLOGY ASSESSMENT OF NON INVASIVE METHODS IN OBESITY: LPG, CAVITATION, ULTRACOUNTER

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This is an abstract of a study to determine the evidences related to the safety, effectiveness and economic outcomes of L.P.G., ultra counter and cavitiation, noninvasive methods that use ultrasound waves to destroy fat tissue to create desirable body composition and fitness. The study was performed according to quick method of evaluation. Considering the inaccessibility to the second type of studies including systematic review, health technology assessment or economy evaluation that directly examine L.P.G , ultra -counter and cavitation technology, this study was solely based on systematic review of reliable and valid existing data bases and clinical trials. In addition, based on the total cost, the expenses of presenting health services in private part were estimated. Based on the results of seven studies including 414 individuals in clinical trials designed to reduce local fat and limb size by using the aforementioned technology, an average decrease of 4 cm in fat tissues size was reported. Based on economic calculations, the cost of treatment in every session of L.P.G, ultra counter and cavitation with mean time of 30 minutes (in private sector) was 3459700 Rials (100 US $) in Tehran. Considering the complete course of treatment for each person for meeting the effectiveness index and 4 cm reduction in fat tissue after 6 sessions of intervention with an interval at least 7 -10 days would cost a total of 20758200 Rials (600 US $). It may be concluded that employing sets that their mechanism rely on using ultrasound wave does not induce serious complication and if it is followed by proper time interval it will be safe.