



Syrian Arab Republic  
Damascus University  
Faculty of Dentistry

### **Information sheet**

Study title: Muscular tension effect on the dental movement during the maxillary dental arch expansion  
A randomized controlled clinical trial

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(Your child) is invited to participate in this research study, which will be conducted at the Department of Orthodontics -Faculty of Dentistry - Damascus University.

Before you make your decision, it is important that you understand the reason for doing this research, and what it will include. Please take Sufficient time to read the following information carefully and attentively. Many devices are used to treat maxillary compression in children aged 8-12 years, and the expansion plate is considered one of the most widely used devices. The aim of this research is to evaluate the skeletal and dento-alveolar changes resulting from the use of two expansion devices. The traditional expansion plate will be applied to a section of patients and the basal expansion plate for the other section. The number of patients invited to participate in the research is 40 patients. They will be randomly divided into two groups. The experimental group will be treated with basal expansion plate, and the control group will be treated with

traditional expansion plate. Cephalometric images will be taken before starting and after achieving correct occlusal relationships. Patients treated with a removable orthodontic expansion device will also be given A questionnaire to be filled out after one week, one month, three months and six months. You have a complete choice in participating in this study. If you accept, you will sign the consent. If you want to withdraw from participation, you have complete freedom without being restricted by your previous consent or having to state any reasons. This will not affect your treatment at Department of Orthodontics. The information obtained from this study may contribute to treating patients with the same problem in the future.

If you have a question regarding this study, do not hesitate to contact us.

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