Reviewer’s report

Title: The role of the paravertebral muscles in adolescent idiopathic scoliosis evaluated by temporary paralysis.

Version: 0 Date: 28 May 2017

Reviewer: Evangelos Christodoulou

Reviewer's report:

Dear Authors,

There are some grammatical and spelling errors that should be corrected. Furthermore the patient group includes 9 patients with different therapy strategies (physiotherapy, bracing), which were maintained through the study and could affect the results. For e.g. how many hours or days before X-ray control did the patients remove the brace?

There are also patients with main thoracic curves (patients 3,4 and 7). What do we expect to achieve by injecting ITB at the compensatory lumbar curve? I believe it would be better if only patients with a main lumbar curve were included in this study.

In addition to these, there is an article about lumbar curves and muscle affection, which should be mentioned in the discussion (Scoliosis Spinal Disord. 2016 Oct. Idiopathic and normal lateral lumbar curves: muscle effects interpreted by 12th rib length asymmetry with pathomechanic implications for lumbar idiopathic scoliosis. Grivas et al.)

Yours sincerely,

E. Christodoulou

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