



# Postsurgical adhesion formation score pitfalls in endometriosis surgery

Ospan A. Mynbaev<sup>1,2</sup> · Amirkhan K. Baimaganbetov<sup>1</sup> · Michael Stark<sup>1,3</sup>

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Dear Editor,

We read with great attention the well-designed randomized article by Kramer et al. which was published in your journal [1]. This study reports the advantages of the adhesion barrier 4DryField® PH in patients following endometriosis surgery. The severity and extent of adhesions, as well as the incidence of the adhesion formation based on the number of affected sites, were significantly reduced after the application of the adhesion barrier when compared to the control group. It is well-known that the main concern in endometriosis surgery is the extension and severity of endometriosis involving the uterine wall, ovaries, and surrounding area, cul-de-sac bladder, ureter, sigmoid (colon), and the pelvic wall with deeply located nodes [2]. The postsurgical adhesion parameters (incidence, extension, and severity) after surgery depend on the extension and the severity of the endometriosis. The authors presented endometriosis scores in two classification systems (Table 1): the rASRM [3] and ENZIAN [4]. Both did not show significant differences among the groups, although the ENZIAN score demonstrated higher percentages of uterine adenomyosis (FA) and deeply infiltrated bladder endometriosis (FB) in the control group (respectively 22% vs 35% and 13% vs 26%). Subsequently, surgical procedures in these locations might result in more adhesions which could increase the incidence, extension, and severity of the condition. The amounts of the barrier components varied

widely with the range of powder (1–5 g) and saline solution (2–20 ml) showing differences in their application areas after surgery. In parallel, the amount of saline ranged highly (5–200 ml), showing that the endometriosis surgical procedures were performed with varied extensions. Therefore, post-surgical adhesions occurring in many sites in one patient with severely traumatic surgery could produce misleading results. We believe that the patients were randomized blindly using the MS Excel RAND and this misleading situation certainly was not the intention of the authors. It might show the number of patients with and without post-surgical adhesions and also adhesion scores depending on the severely traumatic surgical procedures with excision of the deep endometrial nodes. The study design of postsurgical adhesion formation should take into account the character of the surgical pathology which might produce possible methodological shortcomings in the adhesion score since there are significantly different adhesion formation abilities of visceral and parietal tissues [5], depending on single or combined traumatic surgical procedures during the same operation [6].

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✉ Ospan A. Mynbaev  
ospanmynbaev@gmail.com

<sup>1</sup> Department of Traumatology, Orthopedics and Oncology, Khoja Akhmet Yassawi International Kazakh-Turkish University, Bekzat Sattarkhanov Avenue, 29, Turkistan, Kazakhstan

<sup>2</sup> Moscow Institute of Physics and Technology, National Research University, Dolgoprudny, Moscow region, Russia

<sup>3</sup> New European Surgical Academy, Berlin, Germany

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