Comments on: Modified Pereira Suture as an Effective Option to Treat Postpartum Hemorrhage Due to Uterine Atony

Shigeki Matsubara

1 Department of Obstetrics and Gynecology, Jichi Medical University, Shimotsuke, Japan

Address for correspondence Shigeki Matsubara, MD, PhD, Department of Obstetrics and Gynecology, Jichi Medical University, 3311-1, Shimotsuke, Tochigi 329-0498, Japan, Shimotsuke 329-0498, Japan (e-mail: matsuhi@jichi.ac.jp).

Dear Editor,

Moleiro et al1 reported that a modified Pereira uterine compression suture (UCS) achieved hemostasis in two patients with postpartum hemorrhage. In the original Pereira suture, multiple sutures were applied both longitudinally and transversally around the uterus, with threads not penetrating the uterine wall and thus not entering the uterine lumen.2,3 The procedure described by Moleiro et al was the combination of the B-Lynch and the Pereira sutures, and thus, they referred to it as the modified Pereira suture. I have some concerns and clarifications.

First, Moleiro et al1 stated that the “Pereira suture can be performed when there is no hysterotomy,” and that this is a merit of the Pereira suture. However, Moleiro et al1 concomitantly used the B-Lynch suture, which requires hysterotomy.4 Actually, the requirement of hysterotomy is considered a pitfall of the B-Lynch suture.3,5 For the concomitant use with the Pereira suture, the Hyman suture (simple brace suture: simple B-Lynch suture)6 may be better, since it does not require hysterotomy.3,6

Secondly, the rationale for the addition of the Pereira suture is unclear. Moleiro et al1 performed the B-Lynch suture first, followed by a transverse Pereira suture. B-Lynch or Hayman threads sometimes “slide out” laterally, failing to achieve hemostasis.3,6 We have devised the Matsubara-Yano (MY) UCS, which prevents the threads from sliding out.3,6 Although Moleiro et al1 did not mention this, the transverse Pereira suture may also prevent sliding out. On the other hand, UCSs should be simple, as long as hemostasis can be achieved.3 Thus, there may be 2 scenarios: 1) The Pereira suture was added since the B-Lynch suture did not achieve hemostasis, or 2) the B-Lynch suture achieved hemostasis and the Pereira suture was added prophylactically to prevent the sliding out of the thread. Scenario 1) means the emergent addition of the Pereira suture (emergent modified Pereira suture), whereas scenario 2) means the planned prophylactic addition of the Pereira suture (planned modified Pereira suture), I wish to know the fundamental concept of the modified Pereira suture.

I commend Moleiro et al1 for re-evaluating the Pereira UCS. To my knowledge, ~30 UCSs have been hitherto reported. Of them, the B-Lynch,4 the Hayman,9 the Cho,7 and the MY3,5 sutures are cited in the Williams Obstetrics textbook,8 and these four sutures have been repeatedly reported, meaning that they were re-evaluated. However, other UCSs have been rarely re-evaluated: many researchers appear to be enthusiastic to establish new UCSs. Actually, a PubMed search retrieved only one report re-evaluating the Pereira suture.9 Moleiro et al1 have revived the Pereira suture, which should be commended. Now is the time to re-evaluate various UCSs. Such efforts may determine which UCS should be used according to individual situations.

Conflicts of Interest
The author has no conflicts of interest to declare.

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Dear Editor,

The modification of the Pereira suture described by our team was performed during a cesarean section, when uterine atony was noted and was not responsive either to uterotonic drugs or to bimanual uterine massage. Given the success rates of uterine compression sutures (UCSs) described and the possibility of uterus preservation, they were the chosen method.

Since hysteroscopy had already been performed, the B-Lynch suture was the first technique used.\(^1\) As the uterine atony persisted, the Pereira technique was chosen due to its characteristics: an even distribution of pressure around the uterus, due to the small bites at regular intervals in the uterine wall; not entering the uterine cavity, thus reducing uterus atony limits the existence of quality evidence stating superiority amongst UCS techniques. Nevertheless, previous reviews report success rates > 75% (some of them > 90%), regardless of technique.\(^3\)-\(^6\) In these works, variations of the B-Lynch suture were reported as being as effective or even superior to the original technique. However, the chosen technique may not be the only variable contributing to the disparity of results, and the timing in which uterine compression sutures are applied, as well as surgeons’ experience, is of vital importance.\(^7\)-\(^12\)

The two cases reported by our team do not intend to describe a new technique, but rather to support UCSs as an adequate option to treat postpartum hemorrhage due to uterine atony, always bearing in mind the characteristics of each situation and the specificities of each suture.

Conflicts of Interest
The authors have no conflicts of interest to declare.

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Maria Lúcia Moleiro, MD, Departamento de Medicina Feminina e Reproductiva, Centro Materno-Infantil do Norte, Centro Hospitalar Universitário do Porto, Largo da Maternidade de Júlio Dinis, 4050-651 Porto, Portugal (e-mail: lucia.moleiro@gmail.com).

Authors’ Reply

Maria Lúcia Moleiro\(^*\) Luis Guedes-Martins\(^1\) Alexandrina Mendes\(^1\) Cláudia Marques\(^1\) Jorge Braga\(^1\)

1 Woman’s and Reproductive Medicine Department, Centro Materno Infantil do Norte, Centro Hospitalar Universitário do Porto, Porto, Portugal

\(^*\)Maria Lúcia Moleiro’s ORCID is https://orcid.org/0000-0002-1807-5014.
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