

EVIDENCE BASED STATEMENT

DOMAIN **05**, Statement **08**

TOPIC: “**Pelvic venous disorders treatment complications**”

SEARCH TERMS & SOURCES

(treatment complications) AND ((pelvic venous disorder) OR (pelvic congestion syndrome))

INCLUSION CRITERIA

- English language
- Reviews, Meta-analysis
- Publication < 10 years, only ENG

SEARCH RESULT BEFORE - AFTER SELECTION

60/11

PERTINENT LITERATURE NOT IDENTIFIED BY THE LITERATURE SEARCH

1. Guerrero A, Theophanous R.. A case report of a migrated pelvic coil causing pulmonary infarct in an adult female. *Clin Pract Cases Emerg Med.* 2020;4(3):436–439
2. Taskin O, Sahin L, Gavrillov SG, Lazarashvili Z. Medical treatment of pelvic congestion syndrome. *Phlebology* 2016;23: 146-51.
3. O'Brien MT, Gillespie DL. Diagnosis and treatment of the pelvic congestion syndrome. *J Vasc Surg Venous Lymphat Disord.* 2015 Jan;3(1):96-106
4. Soysal ME, Soysal S, Vicdan K, Ozer S. A randomized controlled trial of goserelin and medroxyprogesterone acetate in the treatment of pelvic congestion. *Hum Reprod.* 2001 May;16(5):931-9

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IDENTIFIED REFERENCES

1. Bałabuszek K, Toborek M, Pietura R. Comprehensive overview of the venous disorder known as pelvic congestion syndrome. *Ann Med*. 2022 Dec;54(1):22-36.
2. Sutanto SA, Tan M, Onida S, Davies AH. A systematic review on isolated coil embolization for pelvic venous reflux. *J Vasc Surg Venous Lymphat Disord*. 2022 Jan;10(1):224-232.e9.
3. Joh M, Grewal S, Gupta R. Ovarian Vein Embolization: How and When Should It Be Done? *Tech Vasc Interv Radiol*. 2021 Mar;24(1):100732.
4. Tiralongo F, Distefano G, Palermo M, et al. Liquid and Solid Embolic Agents in Gonadal Veins. *J Clin Med*. 2021 Apr 9;10(8):1596.
5. Bendek B, Afuape N, Banks E, Desai NA. Comprehensive review of pelvic congestion syndrome: causes, symptoms, treatment options. *Curr Opin Obstet Gynecol*. 2020 Aug;32(4):237-242.
6. Gavrilov SG, Efremova OI. Surgical aspects of venous pelvic pain treatment. *Curr Med Res Opin*. 2019 Nov;35(11):1983-1989.
7. Daniels JP, Champaneria R, Shah L, Gupta JK, Birch J, Moss JG. Effectiveness of Embolization or Sclerotherapy of Pelvic Veins for Reducing Chronic Pelvic Pain: A Systematic Review. *J Vasc Interv Radiol*. 2016 Oct;27(10):1478-1486.e8.
8. Mahmoud O, Vikatmaa P, Aho P, et al. Efficacy of endovascular treatment for pelvic congestion syndrome. *J Vasc Surg Venous Lymphat Disord*. 2016 Jul;4(3):355-70.
9. Champaneria R, Shah L, Moss J, Gupta JK, Birch J, Middleton LJ, Daniels JP. The relationship between pelvic vein incompetence and chronic pelvic pain in women: systematic reviews of diagnosis and treatment effectiveness. *Health Technol Assess*. 2016 Jan;20(5):1-108.
10. Borghi C, Dell'Atti L. Pelvic congestion syndrome: the current state of the literature. *Arch Gynecol Obstet*. 2016 Feb;293(2):291-301.
11. Lopez AJ. Female Pelvic Vein Embolization: Indications, Techniques, and Outcomes. *Cardiovasc Intervent Radiol*. 2015 Aug;38(4):806-20.

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TEXT FOR INCLUSION IN THE DOCUMENT

DOMAIN 05, Statement 08, TOPIC: “**Pelvic venous disorders treatment complications**”

Pelvic venous disorders conservative management performed by compression and venous active drugs is generally safe and includes the mild complications already reported in this document chapter dedicated to graduated stockings and pharmacology use.

Hormonal therapy addressed to induce a hypoestrogenic state is generally safe and it includes the possible complications associated with the use of gonadotropin-releasing hormone agonists

combined oral contraceptives, progestins: among these, weight gain and fluid retention could work against the venous drainage improvement.

[Soysal ME, Soysal S, Vicdan K, Ozer S. A randomized controlled trial of goserelin and medroxyprogesterone acetate in the treatment of pelvic congestion. Hum Reprod. 2001 May;16(5):931-9]

Ligation of incompetent ovarian veins and bilateral salpingo-oophorectomy and hysterectomy are clearly invasive procedures whose complications can become significant, among which in particular bleeding, infection, ureter/bladder damage, ovary failure.

[O'Brien MT, Gillespie DL. Diagnosis and treatment of the pelvic congestion syndrome. J Vasc Surg Venous Lymphat Disord. 2015 Jan;3(1):96-106]

Mini-invasive endovascular procedures are to be preferred whenever an intervention is indicated.

Among the major complications reported following these procedures there are coils migration and protrusion.

In such case, both retrieval by snare technique and conservative approaches were documented.

Minor complications are related to the traditional venography approach (access site hematoma, contrast extravasation,

***[Sutanto SA, Tan M, Onida S, Davies AH. A systematic review on isolated coil embolization for pelvic venous reflux. J Vasc Surg Venous Lymphat Disord. 2022 Jan;10(1):224-232.e9].**

Up to 20% of cases present a post-embolization syndrome characterized by pelvic pain, hyperthermia and tenderness around the embolized vein.

Up to our knowledge, no mortality or major incident was reported, nevertheless maximum care must be paid in these procedures performance and only specialized centers should manage these procedures.

[Bałabuszek K, Toborek M, Pietura R. Comprehensive overview of the venous disorder known as pelvic congestion syndrome. Ann Med. 2022;54(1):22-36. doi:10.1080/07853890.2021.2014556]

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STATEMENT FOR PUBLIC EVIDENCE-BASED AWARENESS

DOMAIN 05, Statement 08

**“Embolization of pelvic veins by coils and sclerotherapy is a safe but severe complications can happen.
Only expert Centers must perform these procedures.”**

SELECTED REFERENCES

1. Soysal ME, Soysal S, Vicdan K, Ozer S. A randomized controlled trial of goserelin and medroxyprogesterone acetate in the treatment of pelvic congestion. *Hum Reprod.* 2001 May;16(5):931-9
2. O'Brien MT, Gillespie DL. Diagnosis and treatment of the pelvic congestion syndrome. *J Vasc Surg Venous Lymphat Disord.* 2015 Jan;3(1):96-106
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4. Bałabuszek K, Toborek M, Pietura R. Comprehensive overview of the venous disorder known as pelvic congestion syndrome. *Ann Med.* 2022;54(1):22-36. doi:10.1080/07853890.2021.2014556

identified LITERATURE BIAS

Lack of real world data

SUGGESTED NEXT LINES OF RESEARCH

International registry on pelvic venous disorder treatment complications