



Wrap Perforation after Sleeve Gastrectomy with Posterior Fundoplication: Initial Surgery and Reoperation

Thierry Bège¹  · Thomas Delayre¹ · Pauline Duconseil¹

Received: 8 January 2023 / Revised: 6 February 2023 / Accepted: 7 February 2023 / Published online: 17 February 2023
© The Author(s), under exclusive licence to Springer Science+Business Media, LLC, part of Springer Nature 2023

Abstract

Gastroesophageal reflux (GERD) is nowadays the main limitation of sleeve gastrectomy, with short-term discomfort and potential long-term risks. Surgical techniques combining a fundoplication with sleeve gastrectomy are being developed in order to prevent postoperative GERD [1]. Like any new surgical technique, their learning curve is associated with specific complications [2–4]. This video describes a sleeve gastrectomy associated with a posterior fundoplication derived from the Toupet technique, followed by a postoperative wrap perforation and the intraoperative management of this perforation. This video and its analysis may allow other surgeons to avoid experiencing valve perforation, or help them to manage it effectively.

Keywords Complication · Sleeve · Fundoplication

Supplementary Information The online version contains supplementary material available at <https://doi.org/10.1007/s11695-023-06509-2>.

Data Availability We declare that the only data reported in this article are the videos already transmitted.

References

1. Nocca D, Galtier F, Taleb S, Picot MC, Jausse A, Silvestri M, Lefebvre P, de Jong A, Gautier T, Loureiro M, Nedelcu M. Peri-operative morbidity of nissen sleeve gastrectomy: Prospective evaluation of a cohort of 365 patients, beyond the learning curve. *Obes Surg*. 2022;32(7):1–7. <https://doi.org/10.1007/s11695-022-06066-0>.
2. Carandina S, Zulian V, Nedelcu A, Danan M, Vilallonga R, Nocca D, Nedelcu M. Is it safe to combine a fundoplication to sleeve gastrectomy? *Rev Literature Medicina (Kaunas)*. 2021;57(4):392. <https://doi.org/10.3390/medicina57040392>.
3. Carandina S, Andreica A, Danan M, Zulian V, Nedelcu M. The Nissen-Sleeve: Early postoperative complications. *J Laparoendosc Adv Surg Tech A*. 2021;31(2):141–5. <https://doi.org/10.1089/lap.2020.0892>.
4. Pamart W, Majerus B. Unusual complication after laparoscopic Nissen fundoplication. *J Surg Case Rep*. 2021;2021(2):023. <https://doi.org/10.1093/jscr/rjab023>.

Publisher's Note Springer Nature remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.

Springer Nature or its licensor (e.g. a society or other partner) holds exclusive rights to this article under a publishing agreement with the author(s) or other rightsholder(s); author self-archiving of the accepted manuscript version of this article is solely governed by the terms of such publishing agreement and applicable law.

Key points

- Sleeve with fundoplication may be complicated by wrap perforation.
- A wrap perforation can be treated effectively by reoperation with dismantling and recutting of the wrap.
- Video analysis helps to understand the errors that were made during the initial surgery.

✉ Thierry Bège
thierry.bege@ap-hm.fr

¹ Department of Visceral Surgery, North Hospital APHM, Aix-Marseille University, Marseille, France