VIDEO CORRESPONDENCE









Use of a novel chyme reinfusion device during damage control surgery to improve nutritional status in a patient with a proximal ileostomy: A video vignette

Dear Sir

Chyme reinfusion is a safe and effective option to reduce morbidity when a high-output double enterostomy or enterocutaneous fistula is present [1].

In this Video S1 we present the use of The Insides System as an extension of damage control surgery procedures to avoid worsening of a patient's condition after creation of a proximal ileostomy. This device, which has already been proven to be effective, safe, user friendly and clinically acceptable in diverse situations, is utilised for the first time as a planned preoperative strategy in an urgent setting [2].

A female who has a history of kidney transplantation needs an intestinal resection because of a perforation which occurred during R-CHOP chemotherapy administration for a large B-cell lymphoma. Immediate intestinal continuity restoration is ruled out and an ileostomy needs to be performed.

In this Video S1 we explain why, in urgent settings, planning a loop or double barrel ileostomy could be crucial in extremely frail patients where the high output could lead to hydroelectrolytic imbalance and acute kidney injury. This kind of stoma allowed effective and uncomplicated chyme reinfusion with the Insides System. The device was well tolerated and allowed the maintainance of an acceptable renal function without the need for parenteral fluid infusion. After 4 months of at-home self chyme reinfusion a stoma reversal surgery was performed without complications.

ACKNOWLEDGMENTS

The authors kindly thank The Insides Company for providing The Insides System free of charge.

AUTHOR CONTRIBUTIONS

All the authors equally participated in the clinical management of the patient and in the data collection. Luca Tirloni edited the video. All authors reviewed the result and approved the final version of the manuscript.

FUNDING INFORMATION

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The device object of this video correspondence was provided free of charge by the productor.

CONFLICT OF INTEREST

The authors declare no conflict of interest.

ETHICAL APPROVAL

Hereby, I Luca Tirloni, consciously assure that for the manuscript Use of a novel chyme reinfusion device during damage control surgery to improve nutritional status in a patient with a proximal ileostomy: A video vignette the following is fulfilled:

- 1. This material is the authors' own original work, which has not been previously published elsewhere.
- 2. The correspondence is not currently being considered for publication elsewhere.
- 3. The correspondence reflects the authors' own research and analvsis in a truthful and complete manner.
- 4. The correspondence properly credits the meaningful contributions of co-authors and co-researchers.
- 5. All authors have been personally and actively involved in substantial work leading to the paper, and will take public responsibility for its content.

DATA AVAILABILITY STATEMENT

The data that support the findings of this study are available from the corresponding author upon reasonable request.

Giovanni Alemanno¹

Luca Tirloni¹

Antonino Morabito²

Riccardo Coletta²

Paolo Prosperi¹

¹Emergency Surgery Department, Careggi University Hospital, Florence, Italy

²Department of Pediatric Surgery, Meyer Children's Hospital, Florence, Italy

Email: tirloniluca@gmail.com

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ORCID

Luca Tirloni https://orcid.org/0000-0002-6060-2172

Riccardo Coletta https://orcid.org/0000-0003-3878-1415

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SUPPORTING INFORMATION

Additional supporting information may be found in the online version of the article at the publisher's website.