

Retrieval of fragmented peripherally inserted central catheter (PICC) with a double transfemoral access technique

Alfonso Papa^{1,2}  | Dario Tammaro² | Vittorio Monda³

¹Pain Department, AO Ospedali dei Colli Monaldi Hospital, Napoli, Italy

²CVC Team, AO Ospedali dei Colli Monaldi Hospital, Napoli, Italy

³Division of Cardiology, AO Ospedali dei Colli Monaldi Hospital, Napoli, Italy

Correspondence

Alfonso Papa, AO Ospedali dei Colli Monaldi Hospital, via Leonardo Bianchi, 1 – 80131 - Napoli, Italy.
Email: alfonso.papa@libero.it

Abstract

Retrieval of central venous catheters fragments often puts us in front of different situations. Having more techniques available for strategic planning of the procedure is important. The authors propose the simultaneous use of two different approaches for the recovery of a CVC fragment from the pulmonary artery.

KEYWORDS

CVC fragment, peripherally inserted central catheter, retrieval CVC

1 | CASE DESCRIPTION

Retrieval of central venous catheter fragments often puts us in front of different situations. Having more techniques available for strategic planning of the procedure is important. The authors propose the simultaneous use of two different approaches for the recovery of a CVC fragment from the pulmonary artery.

For vascular catheter fragment recovery, there are several techniques including use of pigtail catheter or gooseneck snare.^{1,2} We describe the case of a PICC fragment migrated into lower branch of right pulmonary artery Figure 1 Retrieval using a pigtail catheter and a gooseneck snare inserted at the same time with a double transfemoral access. The pigtail catheter was used to withdraw the catheter from the pulmonary artery, while at the same time, the gooseneck snare was used to grasp the end of fractured catheter to prevent blood flow from returning the fragment to the pulmonary artery Video S1.

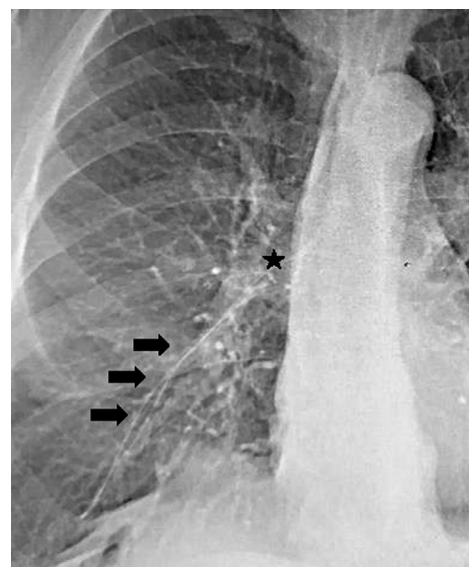


FIGURE 1 Fragmented PICC migrated into lower branch of right pulmonary artery (arrow) and medially positioned loop (star)

ACKNOWLEDGMENTS

The authors would like to acknowledge the patient for providing consent to share her case.

CONFLICTS OF INTEREST

The authors state that they have no conflicts of interest. This research did not receive any specific grant from funding agencies in the public, commercial, or not-for-profit sectors.

AUTHOR CONTRIBUTIONS

AP: involved in conception and drafting of the article and video storing. DT and VM: performed technique and acquire images.

ETHICAL STATEMENT

This study was in accordance with the 1964 Helsinki Declaration and its later amendments or comparable ethical standards.

ORCID

Alfonso Papa  <https://orcid.org/0000-0003-4489-714X>

REFERENCES

1. Li Y, Chen J, Li Z, et al. Successful percutaneous transvenous retrieval of intravascular fractured port catheter: a single center experience. *J Cardiothorac Surg.* 2020;15:101.
2. Peng J, Zhang XM, Yang L, et al. A novel two-step technique for retrieving fractured peripherally inserted central catheter segments migrating into the heart or the pulmonary artery[J]. *Biomed Res Int.* 2016;2016: 1-5.

SUPPORTING INFORMATION

Additional supporting information may be found online in the Supporting Information section.

How to cite this article: Papa A, Tammaro D, Monda V. Retrieval of fragmented peripherally inserted central catheter (PICC) with a double transfemoral access technique. *Clin Case Rep.* 2020;8:3660–3661. <https://doi.org/10.1002/ccr3.3189>