

Lumen-Apposing Self-Expandable Metal Stent for Drainage of Pancreatic Fluid Collections: a Clinical Case

Tajda Božič, Luka Strniša*

Department of Gastroenterology, University Medical Centre Ljubljana, Ljubljana, Slovenia

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ABSTRACT

Pancreatic fluid collections (PFC) can be managed by a variety of options, including endoscopic, surgical and percutaneous drainage. Around 80% of patients with PFC are successfully treated by endoscopic treatment alone. Currently, metallic stents are used for PFC drainage. Lumen-apposing self-expandable metallic stents (LASEMS) are specifically designed to improve PFC drainage and cavity access. Double-pigtail stents may be placed through these metal stents to reduce migration rate and to reduce the risk of clogging in patients with an excessive amount of solid debris. We present a 54-year-old patient admitted to the Department of Gastroenterology at the University Medical Centre Ljubljana after pancreatitis that developed walled-off necrosis with superinfection. Initial extensive antibiotic treatment did not yield any results. Using the echoendoscope, we found a large collection adherent to the gastric wall. Under endoscopic ultrasound-guidance, LASEMS was placed to drain the PFC. For stent fixation, we also placed double-pigtail stent. Ultrasound exam showed walled-off necrosis regression and the patient was discharged two weeks later. Three weeks after discharge, the

patient developed sepsis and CT showed new PFC, which was managed by inserting second LASEMS and double-pigtail stent. Both PFCs were being irrigated endoscopically several times, and nasocystic catheter was also inserted for cyst irrigation. After a month of treatment, we removed one of the LASEMS and control CT showed complete regression of one of the PFC and extensive regression of the second PFC. The patient improved significantly and was discharged after two months.

References

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*Assistant Luka Strniša, MD

Department of Gastroenterology, University Medical Centre Ljubljana, Japljeva ulica 2, 1000 Ljubljana, Slovenia

E-mail: luka.strnisa@kelj.si