

have a greater availability of beds and operating rooms; and promoting cholecystectomies during hospitalization for mild pancreatitis or uncomplicated acute cholecystitis by assigning specific operating rooms.

Likewise, it is essential to develop a clinical monitoring program in order to prioritize patients on the cholecystectomy waiting list^{9,10}, which would enable us to speed up the intervention in more symptomatic patients or those at a greater risk of complications.

The surgical waiting list for elective cholecystectomy is currently a significant problem in Spanish hospitals. All of us—politicians, healthcare administrators and surgeons—must make it our priority to get involved.

REFERENCES

1. WHO.int. Geneva: Director general de la OMS; 11 marzo 2020 [accessed 13 May 2021]. Available from: <https://www.who.int/dg/speeches/detail/who-director-general-openingremarks-at-the-media-briefing-on-COVID-19—11-march-2020>.
2. Ielpo B, Prieto M, Ortega I, Balibrea JM, Rubio-Pérez I, Juvany M, et al. National survey on the treatment of cholelithiasis in Spain during the initial period of the COVID-19 pandemic. *Cir Esp.* 2020; S0009-739X(20)30232-3. English, Spanish. <https://doi.org/10.1016/j.ciresp.2020.07.001>. Epub ahead of print. PMID: 32892980; PMCID: PMC736890
3. Balibrea JM, Badia JM, Rubio Pérez I, Martín Antona E, Álvarez Peña E, García Botella S, et al. Surgical management of patients with COVID-19 infection. recommendations of the Spanish Association of Surgeons. *Cir Esp.* 2020;98:251–9.
4. COVID Surg Collaborative, Global Surg Collaborative. Timing of surgery following SARS-CoV-2 infection. *Anaesthesia.* 2021;76:748–58.
5. Listas de Espera del Sistema Nacional de Salud: Indicadores Resumen. Junio 2020 [accessed 13 May 2021]. Available from: <https://www.mscbs.gob.es/estadEstudios/estadisticas/inforRecopilaciones/listaEspera.htm>.
6. Tiempos de respuesta asistencial de listas de espera en las intervenciones quirúrgicas en Andalucía. Datos de diciembre de 2020 [accessed 13 May 2021]. Available from: <https://www.sspa.juntadeandalucia.es/servicioandaluzdesalud/ciudadania/derechos-y-garantias/tiempos-de-respuesta-asistencial-listas-de-espera/intervenciones-quirurgicas-diciembre-2020/andalucia-total-de-pacientes-pendientes>.
7. Rutledge D, Jones D, Rege R. Consequences of delay in surgical treatment of biliary disease. *Am J Surg.* 2000;180:466–9.
8. BOE-A-2011-14190 Real Decreto 1039/2011, de 15 de julio, por el que se establecen los criterios marco para garantizar un tiempo máximo de acceso a las prestaciones sanitarias del Sistema Nacional de Salud [accessed 13 May 2021]. Available from: <https://www.boe.es/eli/es/rd/2011/07/15/1039>.
9. Alcalde Escribano J, Villetta Plaza R, Ruiz López P, Rodríguez Cuellar E, Landa García JI, Jaurrieta Mas E. Informe sobre los criterios para establecer prioridades al incluir pacientes en lista de espera de cirugía. *Cir Esp.* 2002;72:349–58.
10. Planells Roig M, Cervera Delgado M, Garcia Espinosa R, Navarro Vicente F, Sanahuja Santafé Á. Evaluación del gastrointestinal quality of life index como sistema de selección para la priorización de pacientes en lista de espera de colecistectomía laparoscópica [Evaluation of the gastrointestinal quality of life index as a system to prioritize patients on the waiting list for laparoscopic cholecystectomy]. *Cir Esp.* 2013;91:308–15. Spanish. <https://doi.org/10.1016/j.ciresp.2012.07.021>. Epub 2012 Nov 13. PMID: 23153780

Mikel Prieto^{a*}, Irene Ortega^b, Jose María Balibrea^c, Benedetto Ielpo^d

^aUnidad de Cirugía Hepatobiliaria y Trasplante Hepático, Hospital Universitario Cruces, Biocruces Bizkaia HealthResearch Institute, Bilbao, Universidad del País Vasco, Bilbao, Spain

^bUnidad de Cirugía Hepatobiliopancreática, Hospital Universitario Infanta Sofía Universidad Europea de Madrid, San Sebastián de los Reyes, Madrid, Spain

^cDepartamento de Cirugía Gastrointestinal, Hospital Clinic de Barcelona, Universitat de Barcelona, Barcelona, Spain

^dUnidad de Cirugía Hepatobiliopancreática, Hospital del Mar, Universidad Pompeu Fabra, Barcelona, Spain

*Corresponding author: mikelprietocalvo@hotmail.com (M. Prieto).

<http://dx.doi.org/10.1016/j.cireng.2021.05.013>

2173-5077/© 2021 AEC. Published by Elsevier España, S.L.U. All rights reserved.

A challenge for medium and small pancreatic transplant groups: How can the learning curve from the retrieval team affect the pancreas graft thrombosis?



Un desafío para los grupos con programas pequeños o medianos de trasplante de páncreas: ¿cómo la curva de aprendizaje del equipo de extracción en el donante puede afectar a la trombosis del injerto pancreático?

Dear Editor:

We read with great interest the recently published article by Argente-Pla et al.¹ regarding the results of pancreas-kidney transplantation in the Hospital Universitari i Politècnic La Fe during 13 years. A total of 81 patients were transplanted, demonstrating that this center may be classified as a small/medium pancreas transplant group.² Comparing the periods 2002–2008 and 2009–2015, a very remarkable finding was that pancreatic graft survival significantly increased over time as the medical-surgical team experience improved. The incidence of pancreatic graft thrombosis was also noteworthy, reaching 7.4% in the series.

Our group from Hospital das Clínicas da Faculdade de Medicina da Universidade de São Paulo (HC-FMUSP), Brazil, may be considered a small/medium pancreas transplant team as well, performing around 10 procedures per year. Pancreatic graft thrombosis is our most common cause of graft loss, reaching 13.8% in a series of 137 pancreas transplants from 2005 to 2017. Analyzing these results, we have found that the experience of the pancreas retrieval team plays an important role in graft loss due to thrombosis. In fact, it was 21.6% and 9.3% when the organ harvesting surgeon had performed 35–40 or more than 40 pancreas procurements, respectively.

This data reflects the logistics of pancreas transplantation as a crucial issue concerning small and medium pancreas transplant teams. In some centers, a very experienced senior surgeon sequentially performs the entire pancreas transplant, encompassing graft procurement and implantation. This frequently leads to an exhaust surgeon during the recipient surgery. In others groups, like ours, the senior surgeon is responsible for the back table and recipient procedures, whereas the retrieval teams are composed by young surgeons with limited experience, which increases the risk of a doubtful pancreas evaluation or of a technical injury in the graft. Even though those surgeons have at least 2 years of experience in abdominal organ transplantation after completing their fellowship, it is very challenging to improve their learning curve in pancreas graft procurement, considering the small number of procedures per year. In order to minimize these shortcomings, we prefer to concentrate sequential retrievals at the same week whenever possible. We believe the timing

between the first and the next donor surgery seems more significant than the absolute number of retrievals. Moreover, we also consider important the establishment of regional retrieval teams instead of center-based ones, which can decrease the time of the learning curve owing to the rise in the numbers of pancreas procurements performed by each team member.

As appointed by Argente-Pla et al. work, the growth of the medical-surgical team experience improves pancreatic graft survival. Nevertheless, we also believe it is also paramount to specifically highlight the retrieval team experience and its impact in pancreas graft loss, especially for small and medium transplant groups.

Funding

There is no funding source related to this study.

REFERENCES

- Argente-Pla M, Martínez-Millana A, Espí-Reig J, Maupoey-Ibáñez J, Moya-Herráiz Á, Beneyto-Castello I, et al. Results after 13 years of kidney-pancreas transplantation in type 1 diabetic patients in Comunidad Valenciana. Cir Esp.)2020;(December). <http://dx.doi.org/10.1016/j.ciresp.2020.09.012>. S0009-739X(20)30312-2. English, Spanish. Epub ahead of print. PMID: 33341241.
- Marang-van de Mheen PJ, Hilling DE, Dirkes MC, Baranski AG. Surgical injuries of pancreatic allografts during procurement. Clin Transplant. 2011;25(September–October):737–43. <http://dx.doi.org/10.1111/j.1399-0012.2010.01335.x>. Epub 2010 Oct 25. PMID: 20973826.

Vinicius Rocha-Santos^{a*}, Daniel Reis Waisberg^a, Rubens Macedo Arantes^a, Luiz Augusto Carneiro-D'Albuquerque^{ab}

^aLiver and Abdominal Organs Transplantation Division, Department of Gastroenterology, Hospital das Clínicas da Faculdade de Medicina de São Paulo (HC-FMUSP), São Paulo, Brazil

^bLaboratory of Medical Investigation 37 (LIM-37), Faculdade de Medicina da Universidade de São Paulo (FMUSP), São Paulo, Brazil