Stanford

Toshihiro Nakayama

Resident in Surgery

Publications

PUBLICATIONS

- **Donor Warm Ischemia Time Modifies Susceptibility to Cold Ischemia in Donation After Circulatory Death Kidney Allografts Under Hypothermic Machine Perfusion.** *Transplantation*
  Nakayama, T., Attia, A., Ahn, D. J., Endo, Y., Kashyap, R. S., Hernández-Alejandro, R., Sasaki, K., Bekki, Y.
  2026

- **Highly Sensitized Pediatric Kidney Candidates Have Reduced Access to Kidney Transplant in the United States.** *American journal of transplantation : official journal of the American Society of Transplantation and the American Society of Transplant Surgeons*
  Nakayama, T., Ahn, D. J., Attia, A., Bozhilov, K. K., Kirchner, V. A., Sasaki, K., Busque, S., Melcher, M. L., Pham, T. A.
  2026

- **Donor-Recipient Age Mismatch and Long-Term Graft Outcomes After Adolescent Liver Transplant.** *JAMA network open*
  Nakayama, T., Jensen, A. R., Attia, A., Ahn, D. J., Firl, D. J., Kwong, A., Charu, V., Melcher, M. L., Esquivel, C. O., Sasaki, K.
  2026; 9 (1): e2552779

- **Renal Resistance on Hypothermic Machine Perfusion and Acceptance of Deceased Donor Kidney Allografts.** *Journal of the American Society of Nephrology : JASN*
  Nakayama, T., Attia, A., Ahn, D. J., McCabe, M., Endo, Y., Kashyap, R. S., Pham, T. A., Melcher, M. L., Sasaki, K., Bekki, Y.
  2025

- **Survival Benefit of Accepting Livers From Donation After Circulatory Death Donors Older Than or Equal to 60 y in the United States.** *Transplantation*
  Nakayama, T., Esquivel, C. O., Melcher, M. L., Sasaki, K.
  2025

- **Listing for blood type A2 donors is highly variable and impacts waitlist outcomes among blood type O liver transplantation candidates in the United States.** *American journal of transplantation : official journal of the American Society of Transplantation and the American Society of Transplant Surgeons*
  Nakayama, T., Imaoka, Y., Esquivel, C. O., Sasaki, K.
  2025

- **In policy and in practice: expedited placement and allocation out of sequence in liver transplantation.** *American journal of transplantation : official journal of the American Society of Transplantation and the American Society of Transplant Surgeons*
  Attia, A., Nakayama, T., Ahn, D. J., York, T., Wehrle, C. J., Cheng, X. S., Charu, V., Kwong, A. J., Stutchfield, B. M., Segev, D., Gentry, S., Melcher, M., Sasaki, et al
  2026

- **Post-Transplant Lymphoproliferative Disorder Onset in Liver Transplant: UNOS-STAR Database Analysis.** *The Journal of surgical research*
  Withington, C. G., Nakayama, T., Sasaki, K.
  2026; 327: 58-65

- **Under-Capture of Candidates Supported by Temporary Mechanical Circulatory Support in the OPTN STAR Registry.** *JACC. Advances*
  Ahn, D. J., Attia, A., Nakayama, T., Parker, W. F., Khush, K. K.
  2026; 5 (10 Pt 2): 103213

- **Does reperfusion time affect chances of HCC recurrence after liver transplantation?** *HPB : the official journal of the International Hepato Pancreato Biliary Association*
  Gangaram, P., Attia, A. M., Ahn, D., Nakayama, T., Sasaki, K.

2026

- **Interleukin-37 Enhances Liver NK Cell Cytotoxicity and Improves Recurrence-Free Survival in Hepatocellular Carcinoma Patients.** *Journal of hepato-biliary-pancreatic sciences*
  Imaoka, Y., Ohira, M., Tanaka, Y., Nakayama, T., Akabane, M., Yokota, S., Krams, S. M., Martinez, O. M., Esquivel, C. O., Sasaki, K., Ohdan, H.
  2026
- **The Benefit of Sequential Normothermic Regional Perfusion and Hypothermic Machine Perfusion in Kidney Transplantation From Donation After Circulatory Death Donors.** *Clinical transplantation*
  Nakayama, T., Fu, S. J., Attia, A. M., Ahn, D. J., Pham, T. A., Melcher, M. L., Bozhilov, K. K., Sasaki, K.
  2026; 40 (8): e70641
- **Undercapture of HeartMate 3-Supported Pediatric Candidates in the OPTN STAR Registry.** *The Annals of thoracic surgery*
  Ahn, D. J., Attia, A., Nakayama, T., Parker, W. F., Khush, K. K.
  2026
- **Potential Impact of the OPTN Status Escalation Policy for Adult Heart Transplant Candidates With Durable LVADs.** *Circulation. Heart failure*
  Ahn, D. J., Attia, A., Nakayama, T., Narang, N., Khush, K. K., Parker, W., Sasaki, K.
  2026: e013854
- **High Rate of Transplantation Before Review of Status Exception Requests Among Adult Heart Transplant Candidates.** *Circulation. Heart failure*
  Ahn, D. J., Nakayama, T., Attia, A., White, M., Eap, D., Narang, N., Khush, K. K., Parker, W. F., Sasaki, K.
  2026: e013994
- **Artifactual Declines in Durable LVAD Utilization among Heart Transplant Candidates: Selection Bias in Transplant Registries.** *The Journal of heart and lung transplantation : the official publication of the International Society for Heart Transplantation*
  Ahn, D. J., Lyden, G. R., Attia, A., Nakayama, T., Narang, N., Sasaki, K., Parker, W. F., Khush, K. K.
  2026
- **Current status of split liver transplantation using machine perfusion in the United States.** *HPB : the official journal of the International Hepato Pancreato Biliary Association*
  Nakayama, T., Ito, R., Attia, A., Ahn, D. J., Ichida, H., Shiraki, S., Sasaki, K.
  2026
- **Increasing Transplant Access for Low MELD Patients in the United States: Do We Still Need to Increase Adult Living Donor Liver Transplantation?** *Clinical transplantation*
  Nakayama, T., Yokota, S., Sasaki, K.
  2026; 40 (3): e70513
- **Status Exceptions and Misalignment of Medical Urgency in U.S. Pediatric Heart Transplantation.** *Journal of the American College of Cardiology*
  Ahn, D. J., Attia, A., Nakayama, T., Narang, N., Daly, K., Khush, K. K., Parker, W. F., Sasaki, K.
  2026
- **Combined heart and other organ transplants in Spain: insights from the COMBI study.** *The Journal of heart and lung transplantation : the official publication of the International Society for Heart Transplantation*
  Nakayama, T., Sasaki, K.
  2026
- **Evaluating the impact of donor obesity on liver transplantation outcomes: the role of donor gender and age.** *HPB : the official journal of the International Hepato Pancreato Biliary Association*
  Nakayama, T., Krist, D. T., Akabane, M., Imaoka, Y., Esquivel, C. O., Melcher, M. L., Sasaki, K.
  2026
- **Potential Double Counting in Meta-Analysis of Combined Heart-liver Transplantation.** *Transplantation*
  Nakayama, T., Attia, A., Ahn, D. J., Sasaki, K.
  2026
- **Current status of minimally invasive liver transplantation: a narrative review** *ANNALS OF LAPAROSCOPIC AND ENDOSCOPIC SURGERY*
  Nakayama, T., Attia, A., Ahn, D. J., Sasaki, K., Margonis, G.

2026; 11

- **Initial Experience with Routine Post-Operative Contrast Enhanced Ultrasound Following Pediatric Whole and Partial Deceased Donor Liver Transplant**
  York, T., Attia, A., Nakayama, T., Yu, J., Fu, S., Hanna, K., Ahn, D., Badshah, J., Ebel, N., Alrabadi, L., Czepiel, K., Melcher, M., Pham, et al
  ELSEVIER SCIENCE INC.2026
- **When Offers Descend: Pathway, Timing, and Outcomes in Liver Transplantation**
  Attia, A., Nakayama, T., Ahn, D., York, T., Sasaki, K.
  ELSEVIER SCIENCE INC.2026
- **Association between volume and outcomes in pediatric kidney transplantation**
  Fu, S., Nakayama, T., Ahn, D., Attia, A., Sasaki, K., Pham, T.
  ELSEVIER SCIENCE INC.2026
- **Highly Sensitized Pediatric Kidney Candidates Have Reduced Access to Kidney Transplant Following the Implementation of Donor Concentric Circle Allocation**
  Nakayama, T., Ahn, D., Attia, A., Sasaki, K., Pham, T.
  ELSEVIER SCIENCE INC.2026
- **Use of Non-Standardized Exceptions among Pediatric Liver Transplant Candidates in the PELD vs PELD-Cr Eras**
  Ahn, D., Nakayama, T., Attia, A., Sasaki, K., Pham, T.
  ELSEVIER SCIENCE INC.2026
- **A UNOS Database Outcomes Analysis of DCD Liver Transplantation Using Sequential Normothermic Regional Perfusion and Normothermic Machine Perfusion Versus NRP Alone**
  Yu, J., Nakayama, T., Sasaki, K., Melcher, M., Bozhilov, K.
  ELSEVIER SCIENCE INC.2026
- **A UNOS Database Outcomes Analysis of DCD Liver Transplantation Using Normothermic Regional Perfusion Versus Normothermic Machine Perfusion**
  Yu, J., Nakayama, T., Sasaki, K., Melcher, M., Bozhilov., K.
  ELSEVIER SCIENCE INC.2026
- **Development and validation of a machine-learning model to reduce futile procurements in donations after circulatory death in liver transplantation in the USA: a multicentre study.** *The Lancet. Digital health*
  Yanagawa, R., Iwadoh, K., Nakayama, T., Firl, D. J., Wehrle, C. J., Bekki, Y., Soma, D., Kusakabe, J., Sambommatsu, Y., Endo, Y., Bozhilov, K. K., Pan, J. H., Kubota, et al
  2025: 100918
- **Embracing Liver Transplantation From Donation After Circulatory Death in the United States in the Era of Perfusion Technology.** *Transplantation*
  Bekki, Y., Loszko, A., Endo, Y., Lim, N., Nakayama, T., Sasaki, K., Tomiyama, K., Hernandez-Alejandro, R.
  2025
- **Optimizing liver transplant outcomes for colorectal liver metastases in the united states.** *Liver transplantation : official publication of the American Association for the Study of Liver Diseases and the International Liver Transplantation Society*
  Chávez-Villa, M., Sasaki, K., Nakayama, T., Byrne, M. M., Jimenez-Soto, C., Ruffolo, L. I., Endo, Y., Dokus, M. K., Bekki, Y., Qadan, M., Tomiyama, K., Roberts, J. P., Pomfret, et al
  2025
- **Complications and Status Upgrades among Adult Heart Transplant Candidates with Durable LVADs: Waiting 6 to 8 Years for Status Escalation Is Too Long.** *medRxiv : the preprint server for health sciences*
  Ahn, D. J., Attia, A., Nakayama, T., Narang, N., Khush, K. K., Parker, W., Sasaki, K.
  2025
- **AGE MATCHING IMPROVES GRAFT SURVIVAL IN ADOLESCENT LIVER TRANSPLANTATION**
  Jensen, A., Nakayama, T., Sasaki, K., Ebel, N., Kirchner, V.
  WILEY.2025
- **High Rate of Transplantation Prior to Review of Status Exception Requests among Adult Heart Transplant Candidates.** *medRxiv : the preprint server for health sciences*

Ahn, D. J., Nakayama, T., Attia, A., White, M., Eap, D., Narang, N., Khush, K. K., Parker, W., Sasaki, K.
2025

- **FIB-3 index as a novel age-independent predictor of liver fibrosis and prognosis in hepatocellular carcinoma patients undergoing hepatectomy.** *Annals of gastroenterological surgery*
  Imaoka, Y., Ohira, M., Kobayashi, T., Honmyo, N., Hamaoka, M., Onoe, T., Takei, D., Oishi, K., Abe, T., Nakayama, T., Akabane, M., Sasaki, K., Ohdan, et al
  2025; 9 (5): 1055-1065
- **Liver transplantation for unresectable colorectal liver metastases: a narrative review.** *Chinese clinical oncology*
  Nakayama, T., Sasaki, K., Margonis, G. A.
  2025; 14 (4): 44
- **Re-emergence of Early Liver Transplant Access for Hepatocellular Carcinoma in the Era of Normothermic Machine Perfusion.** *Journal of gastrointestinal surgery : official journal of the Society for Surgery of the Alimentary Tract*
  Nakayama, T., Hall, K. A., Wehrle, C. J., Esquivel, C. O., Melcher, M. L., Sasaki, K.
  2025: 102142
- **Erratum to "Cluster analysis of hepatocellular carcinoma prognosis using preoperative alpha-fetoprotein and des-gamma-carboxy prothrombin levels: a multi-institutional study". [J Gastrointest Surg. 29 (2025) 101980].** *Journal of gastrointestinal surgery : official journal of the Society for Surgery of the Alimentary Tract*
  Saegusa, Y., Imaoka, Y., Ohira, M., Kobayashi, T., Honmyo, N., Hamaoka, M., Onoe, T., Takei, D., Oishi, K., Abe, T., Nakayama, T., Akabane, M., Sasaki, et al
  2025: 102129
- **Primary tumor location and KRAS mutation: key prognostic factors in surgically treated colorectal liver metastases.** *Hepatobiliary surgery and nutrition*
  Nakayama, T., Sasaki, K., Margonis, G. A.
  2025; 14 (3): 502-505
- **Liver-Directed Therapies in Colorectal Cancer: Old Hats and New Tricks.** *American Society of Clinical Oncology educational book. American Society of Clinical Oncology. Annual Meeting*
  Hornstein, N., Levenson, J., Nakayama, T., Sasaki, K., Aucejo, F., Hernandez-Alejandro, R., Salem, R., Miller, E. D., Gholami, S.
  2025; 45 (3): e473598
- **Primary tumor location and KRAS mutation: key prognostic factors in surgically treated colorectal liver metastases** *HEPATOBILIARY SURGERY AND NUTRITION*
  Nakayama, T., Sasaki, K., Margonis, G.
  2025
- **Out of Sequence Allocation in Liver Transplantation: A Poorly Used Tool to Improve Organ Utilization.** *Annals of surgery*
  Wehrle, C. J., Gross, A., Satish, S., Shanmugarajah, K., Nakayama, T., Fleischer, C. M., Sheetz, K., Aucejo, F., Sasaki, K., Kwon, D. C., Fujiki, M., Pinna, A. D., Miller, et al
  2025
- **FIB-3 index as a novel age-independent predictor of liver fibrosis and prognosis in hepatocellular carcinoma patients undergoing hepatectomy** *ANNALS OF GASTROENTEROLOGICAL SURGERY*
  Imaoka, Y., Ohira, M., Kobayashi, T., Honmyo, N., Hamaoka, M., Onoe, T., Takei, D., Oishi, K., Abe, T., Nakayama, T., Akabane, M., Sasaki, K., Ohdan, et al
  2025
- **Graft-to-recipient weight ratio: a timeless standard still shaping outcomes.** *Hepatobiliary surgery and nutrition*
  Nakayama, T., Sasaki, K.
  2025; 14 (2): 295-297
- **Pathological complete response after chemotherapy in initially unresectable distal cholangiocarcinoma.** *Clinical journal of gastroenterology*
  Nakayama, T., Nakano, H., Matsushita, R., Hayakawa, T., Takagi, S., Tanaka, Y., Ozaki, T., Matsushita, T., Sumi, Y., Takagi, M.
  2025; 18 (2): 357-362
- **Mixed neuroendocrine-non-neuroendocrine neoplasm of the colon treated with laparoscopic resection and adjuvant chemotherapy: a case report.** *Clinical journal of gastroenterology*
  Tanaka, Y., Takagi, M., Nakayama, T., Kawada, S., Matsushita, R., Matsushita, T., Ozaki, T., Takagi, S., Komai, S., Sumi, Y.

2025; 18 (2): 314-323

- **Geospatial analysis of liver donation after death by drug intoxication.** *Liver transplantation : official publication of the American Association for the Study of Liver Diseases and the International Liver Transplantation Society*
  Kadri, H., Handley, T. J., Nakayama, T., Sasaki, K., Melcher, M. L.
  2025
- **Time to Expand Selection Criteria for MELD Exception Points in Liver Transplantation for Hepatocellular Carcinoma.** *Transplantation*
  Wehrle, C. J., Kusakabe, J., Nakayama, T., Miller, C., Hashimoto, K., Pawlik, T. M., Sasaki, K., Mazzaferro, V., Schlegel, A., Aucejo, F.
  2025
- **Exploring the Viability of Matching Marginal Donors With Low Renal Function Recipients in Liver Transplantation.** *Clinical transplantation*
  Akabane, M., Imaoka, Y., Nakayama, T., Esquivel, C. O., Sasaki, K.
  2025; 39 (3): e70123
- **Effect of sarcopenia on the survival of patients undergoing liver transplantation: a meta-analysis.** *Surgery today*
  Akabane, M., Imaoka, Y., Nakayama, T., Esquivel, C. O., Sasaki, K.
  2025
- **Cluster analysis of hepatocellular carcinoma prognosis using preoperative alpha-fetoprotein and des-gamma-carboxy prothrombin levels: a multi-institutional study.** *Journal of gastrointestinal surgery : official journal of the Society for Surgery of the Alimentary Tract*
  Saegusa, Y., Imaoka, Y., Ohira, M., Kobayashi, T., Honmyo, N., Hamaoka, M., Onoe, T., Takei, D., Oishi, K., Abe, T., Nakayama, T., Akabane, M., Sasaki, et al
  2025; 29 (4): 101980
- **The urgent need for standardization in liver transplantation for unresectable colorectal liver metastases in the United States**
  Chavez-Villa, M., Sasaki, K., Nakayama, T., Byrne, M., Jimenez-Soto, C., Ruffolo, L., Endo, Y., Dokus, K., Tomiyama, K., Wall, A., Hernandez-Alejandro, R.
  ELSEVIER SCIENCE INC.2025
- **Long-term outcomes of pediatric hepatoblastoma patients who present with metastasis and receive liver transplantation**
  Pan, J., Nakayama, T., Samreth, S., Marshall, A., Sasaki, K.
  ELSEVIER SCIENCE INC.2025
- **The impact of sex and body mass index in liver transplantation for acute-on-chronic liver failure.** *Journal of hepato-biliary-pancreatic sciences*
  Akabane, M., Imaoka, Y., Nakayama, T., Esquivel, C. O., Sasaki, K.
  2024
- **Hepatitis C-positive grafts for hepatitis C-negative recipients in liver transplantation: Buried treasure or depleting resource?** *Liver transplantation : official publication of the American Association for the Study of Liver Diseases and the International Liver Transplantation Society*
  Nakayama, T., Krist, D. T., Akabane, M., Imaoka, Y., Esquivel, C. O., Kwong, A. J., Kwo, P. Y., Melcher, M. L., Sasaki, K.
  2024
- **Revisiting the Prognostic Influences of Donor-Recipient Size Mismatch in Deceased Donor Liver Transplantation.** *Transplantation direct*
  Nakayama, T., Akabane, M., Imaoka, Y., Esquivel, C. O., Melcher, M. L., Sasaki, K.
  2024; 10 (11): e1722
- **Does the introduction of acuity circle policy change split liver transplantation practice?** *Liver transplantation : official publication of the American Association for the Study of Liver Diseases and the International Liver Transplantation Society*
  Nakayama, T., Akabane, M., Imaoka, Y., Esquivel, C. O., Melcher, M. L., Sasaki, K.
  2024
- **Evaluation of prognostic efficacy of liver immune status index in predicting postoperative outcomes in hepatocellular carcinoma patients: A multi-institutional retrospective study.** *Journal of hepato-biliary-pancreatic sciences*
  Imaoka, Y., Ohira, M., Kobayashi, T., Honmyo, N., Hamaoka, M., Onoe, T., Takei, D., Oishi, K., Abe, T., Nakayama, T., Akabane, M., Sasaki, K., Ohdan, et al
  2024
- **Advanced viability assessment in machine perfusion: what lies ahead?** *EBioMedicine*
  Nakayama, T., Sasaki, K.
  2024; 108: 105351

- **Comment on "Age Matters: What Affects the Cumulative Lifespan of a Transplanted Liver?".** *Annals of surgery open : perspectives of surgical history, education, and clinical approaches*
  Akabane, M., Imaoka, Y., Nakayama, T., Sasaki, K.
  2024; 5 (3): e475

- **Effect of transjugular intrahepatic portosystemic shunt insertion on waitlist mortality and access to liver transplantation in budd-chiari syndrome.** *Liver transplantation : official publication of the American Association for the Study of Liver Diseases and the International Liver Transplantation Society*
  Akabane, M., Imaoka, Y., Nakayama, T., Esquivel, C. O., Sasaki, K.
  2024

- **Interleukin-33 and liver natural killer cells: A novel perspective on antitumor activity in liver fibrosis.** *Hepatology research : the official journal of the Japan Society of Hepatology*
  Imaoka, Y., Ohira, M., Imaoka, K., Bekki, T., Nakano, R., Yano, T., Tanaka, Y., Nakayama, T., Akabane, M., Tajima, T., Yokota, S., Krams, S. M., Martinez, et al
  2024

- **Pancreaticoduodenectomy after bilirubin adsorption for distal cholangiocarcinoma with severe obstructive jaundice refractory to repeat preoperative endoscopic biliary drainage: a case report.** *Clinical journal of gastroenterology*
  Nakayama, T., Ito, K., Nakamura, M., Inagaki, F., Katagiri, D., Yamamoto, N., Mihara, F., Takemura, N., Kokudo, N.
  2024; 17 (4): 711-716

- **Evaluating Predictors of Quality in Liver NK Cells Among Deceased Donors.** *Cell transplantation*
  Imaoka, Y., Ohira, M., Nakayama, T., Akabane, M., Tajima, T., Yokota, S., Krams, S. M., Martinez, O. M., Esquivel, C. O., Sasaki, K., Ohdan, H.
  2024; 33: 9636897241283289

- **Pheochromocytoma Crisis Rescued by Veno-Arterial Extracorporeal Membrane Oxygenation and Continuous Renal Replacement Therapy.** *The American surgeon*
  Nakayama, T., Ito, K., Inagaki, F., Miyake, W., Katagiri, D., Mihara, F., Takemura, N., Kokudo, N.
  2023; 89 (6): 2857-2860

- **Repeat hepatectomy for massive liver metastases from pheochromocytoma: a case report.** *Clinical journal of gastroenterology*
  Nakayama, T., Ito, K., Inagaki, F., Kobayashi, M., Tanabe, A., Mihara, F., Takemura, N., Kokudo, N.
  2023; 16 (3): 457-463

- **Infectious Pulmonary Artery Pseudoaneurysm That Resolved with Conservative Treatment.** *Internal medicine (Tokyo, Japan)*
  Nakayama, T., Suzuki, M., Yamaguchi, Y., Iikura, M., Izumi, S., Takeda, Y., Hojo, M., Sugiyama, H.
  2022; 61 (20): 3089-3093