

Stanford



Carlos O. Esquivel, M.D., Ph.D., FACS

Arnold and Barbara Silverman Professor in Pediatric Transplantation and Professor of Surgery (Abdominal Transplantation) and of Pediatrics (Gastroenterology, Hepatology and Nutrition)

Surgery - Abdominal Transplantation

CLINICAL OFFICE (PRIMARY)

- **Pediatric Surgery**

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ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

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Bio

CLINICAL FOCUS

- Liver Transplantation
- General Surgery
- Intestinal Transplantation
- Pediatric Liver Transplantation
- Liver cancer

ACADEMIC APPOINTMENTS

- Professor - University Medical Line, Surgery - Abdominal Transplantation
- Professor - University Medical Line, Pediatrics - Gastroenterology
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)

ADMINISTRATIVE APPOINTMENTS

- Director, Adult Liver Transplantation, Stanford University, (1995-2023)
- Chief, Division of Abdominal Transplantation, Stanford University, (1998-2023)
- Associate Director, Institute for Immunity, Transplantation and Infection, Stanford University, (2004- present)
- Director, Abdominal Transplant Fellowship, Stanford University, (1998-2020)
- Vice Chairman, Department of Surgery, Stanford University, (1995-1997)
- Surgical Director, Pediatric Liver Transplant Program, Stanford University, (1995- present)

HONORS AND AWARDS

- President, International Pediatric Transplant Association (May 2021 - 2023)

- President Elect, International Pediatric Transplant Association (May 6, 2019)
- Medical Staff Distinguished Service Award, Lucile Packard Children's Hospital at Stanford (April 16, 2015)
- Francis Moore Excellence in Mentorship in the field of Transplantation Surgery Award, American Society of Transplant Surgeons (2015)
- President, San Francisco Surgical Society (2010 - 2011)
- Honoree 'Salute to Excellence', American Liver Foundation, Northern California Chapter (2003)
- 1st Recipient "The Arnold and Barbara Chair in Pediatric Transplantation", Stanford University (1999)
- Member, American Surgical Association (1997)
- Premio a la Superacion (Honor al Merito) by Rafael A. Calderon F. Presidente de la Republica, Costa Rica (1991)
- Fellow, American College of Surgeons (1990)
- National Research Service Award, NIH (1980)

PROFESSIONAL EDUCATION

- Residency: UC Davis Health Dept of Surgery (1984) CA
- Internship: UC Davis Health Dept of Surgery (1978) CA
- Board Certification: General Surgery, American Board of Surgery (1985)
- Fellowship: University of Pittsburgh School of Medicine (1985) PA
- Fellowship: University of Lund (1983) Sweden
- Medical Education: University of Costa Rica School of Medicine (1975) Costa Rica
- Fellowship, University of Pittsburgh , Transplantation (1985)
- Residency, University of California, Davis , Surgery (1984)
- Internship, University of California, Davis , Surgery (1978)
- Ph.D., University of Lund, Sweden , Medicine (1983)
- MD, University of Costa Rica , Medicine (1975)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My role in research is to bring clinical problems to the laboratory to find answers, which in turn, will improve patient care. Thus, my role is translational research in the field of liver and small bowel transplantation. As a senior clinical scientist, I provide leadership over many research projects conducted in the Division of Abdominal Transplantation laboratories. I have ensembled an outstanding research team lead by Olivia Martinez, Ph.D. and Sheri Krams, Ph.D. The investigators include undergraduate and post-graduate students, medical students, surgery residents and transplant fellows.

Research projects involve several models of transplantation of the liver, kidney, intestinal and heart transplantation in rodents. The goals of these research projects are to understand the molecular mechanisms of rejection and by manipulating those mechanisms, we are pursuing full acceptance of the transplanted organs, known as tolerance.

CLINICAL TRIALS

- Biomarkers for Post-Transplant Lymphoproliferative Disorders in Children, Not Recruiting
- Post-Traumatic Stress Symptoms (PTSS) in Transplant Recipients, Not Recruiting
- Risk Factors and Molecular Genomics of U.S. Patients With Chronic Liver Disease and Hepatocellular Cancer, Not Recruiting

Publications

PUBLICATIONS

- **Epstein-Barr virus-associated post-transplant lymphoproliferative disorders in pediatric transplantation: A prospective multicenter study in the United States.** *Pediatric transplantation*
Tajima, T., Martinez, O. M., Bernstein, D., Boyd, S. D., Gratzinger, D., Lum, G., Sasaki, K., Tan, B., Twist, C. J., Weinberg, K., Armstrong, B., Desai, D. M., Mazariegos, et al
2024; 28 (4): e14763
- **An updated analysis of retransplantation following living donor liver transplantation in the US: insights from the latest UNOS database.** *Liver transplantation : official publication of the American Association for the Study of Liver Diseases and the International Liver Transplantation Society*
Akabane, M., Imaoka, Y., Esquivel, C. O., Sasaki, K.
2024
- **Enhancing the Usability of older DCD donors through strategic approaches in liver transplantation in the US.** *Liver transplantation : official publication of the American Association for the Study of Liver Diseases and the International Liver Transplantation Society*
Akabane, M., Melcher, M. L., Esquivel, C. O., Imaoka, Y., Kim, W. R., Sasaki, K.
2024
- **Impact of donor characteristics on hepatocellular carcinoma recurrence after liver transplantation.** *The British journal of surgery*
Akabane, M., Bekki, Y., Imaoka, Y., Inaba, Y., Esquivel, C. O., Melcher, M. L., Kwong, A., Sasaki, K.
2024; 111 (4)
- **Three-dimensional Liver Model Application for Liver Transplantation.** *Transplantation*
Sanchez-Garcia, J., Lopez-Verdugo, F., Shorti, R., Krong, J., Kastenber, Z. J., Walters, S., Gagnon, A., Paci, P., Zendejas, I., Alonso, D., Fujita, S., Contreras, A. G., Botha, et al
2024; 108 (2): 464-472
- **Incidence and Outcomes of Simultaneous Thoracoabdominal Triple Organ Transplantation in the United States.** *Transplantation proceedings*
Adjei, M. A., Wisel, S. A., Steggerda, J. A., Mirocha, J., Mavis, A., Esquivel, C. O., Kim, I. K.
2024
- **Antiviral Therapy Utilization and 10-Year Outcomes in Resected Hepatitis B Virus- and Hepatitis C Virus-Related Hepatocellular Carcinoma.** *Journal of clinical oncology : official journal of the American Society of Clinical Oncology*
Huang, D. Q., Hoang, J. K., Kamal, R., Tsai, P. C., Toyoda, H., Yeh, M. L., Yasuda, S., Leong, J., Maeda, M., Huang, C. F., Won Jun, D., Ishigami, M., Tanaka, et al
2024: JCO2300757
- **Breaking distance barriers in liver transplantation: Risk factors and outcomes of long-distance liver grafts.** *Surgery*
Imaoka, Y., Bozhilov, K. K., Bekki, Y., Akabane, M., Kwong, A. J., Ohira, M., Ohdan, H., Esquivel, C. O., Melcher, M. L., Sasaki, K.
2023
- **Impact of Induction Therapy on Rejection in Pediatric Transplantation: A Multicenter Study in the US**
Tajima, T., Chin, C., Desai, D. M., Fishbein, T. M., Mazariegos, G. V., Tekin, A., Venick, R., Krams, S. M., Martinez, O. M., Esquivel, C. O.
LIPPINCOTT WILLIAMS & WILKINS.2023: S495
- **Alcohol Use in Liver Transplant Recipients With Alcohol-related Liver Disease: A Comparative Assessment of Relapse Prediction Models.** *Transplantation*
Sedki, M., Kwong, A., Bhargava, M., Ahmed, A., Daugherty, T., Kwo, P., Dronamraju, D., Kumari, R., Kim, W. R., Esquivel, C., Melcher, M., Bonham, C. A., Gallo, et al
2023
- **The short and long-term prognostic influences of liver grafts with high bilirubin levels at the time of organ recovery.** *Clinical transplantation*
Akabane, M., Bekki, Y., Imaoka, Y., Inaba, Y., Kwong, A. J., Esquivel, C. O., Melcher, M. L., Sasaki, K.
2023: e15155
- **International Liver Transplantation Society Global Census: First Look at Pediatric Liver Transplantation Activity Around the World.** *Transplantation*
Rodriguez-Davalos, M. I., Lopez-Verdugo, F., Kasahara, M., Muiesan, P., Reddy, M. S., Flores-Huidobro Martinez, A., Xia, Q., Hong, J. C., Niemann, C. U., Seda-Neto, J., Miloh, T. A., Yi, N. J., Mazariegos, et al
2023; 107 (10): 2087-2097

- **311.2: Risk factors for Epstein-Barr virus DNAemia in pediatric transplantation: A multicenter study in the United States.** *Transplantation*
Tajima, T., Bernstein, D., Boyd, S. D., Gratzinger, D., Lum, G., Sasaki, K., Tan, B., Weinberg, K., Armstrong, B., Brown, M., Chin, C., Desai, D., Fishbein, et al
2023; 107 (10S1): 71-72
- **Has the risk of liver re-transplantation improved over the two decades?** *Clinical transplantation*
Akabane, M., Bekki, Y., Imaoka, Y., Inaba, Y., Esquivel, C. O., Kwong, A., Melcher, M. L., Sasaki, K.
2023: e15127
- **Technical Variant Liver Transplant Utilization for Pediatric Recipients: Equal Graft Survival to Whole Liver Transplants and Promotion of Timely Transplantation Only When Performed at High-volume Centers.** *Transplantation*
Stoltz, D. J., Gallo, A. E., Lum, G., Mendoza, J., Esquivel, C. O., Bonham, A.
2023
- **Overcoming the hurdles of steatotic grafts in liver transplantation: insights into survival and prognostic factors.** *Liver transplantation : official publication of the American Association for the Study of Liver Diseases and the International Liver Transplantation Society*
Akabane, M., Imaoka, Y., Esquivel, C. O., Melcher, M. L., Kwong, A., Sasaki, K.
2023
- **Highlights from the 12th congress of the international pediatric transplant association, Austin, Texas 2023.** *Pediatric transplantation*
Chinnakotla, S., Esquivel, C., Twombly, K., Posfay-Barbe, K., Krams, S. M.
2023: e14592
- **High-dimensional profiling of pediatric immune responses to solid organ transplantation.** *Cell reports. Medicine*
Rao, M., Amouzgar, M., Harden, J. T., Lapasaran, M. G., Trickey, A., Armstrong, B., Odum, J., Debnam, T., Esquivel, C. O., Bendall, S. C., Martinez, O. M., Krams, S. M.
2023: 101147
- **Mesenchymal stem cell-derived exosomes for the treatment of acute rejection in pediatric and adult bowel transplant**
Zhang, K., Kumari, R., Lightner, A., Gallo, A., Bonham, C., Esquivel, C.
LIPPINCOTT WILLIAMS & WILKINS.2023: 38
- **The IPTA Nashville Consensus Conference on Post-Transplant lymphoproliferative disorders after solid organ transplantation in children: III - Consensus guidelines for Epstein-Barr virus load and other biomarker monitoring.** *Pediatric transplantation*
Preiksaitis, J., Allen, U., Bollard, C. M., Dharnidharka, V. R., Dulek, D. E., Green, M., Martinez, O. M., Metes, D. M., Michaels, M. G., Smets, F., Chincock, R. E., Comoli, P., Danziger-Isakov, et al
2023: e14471
- **International Liver Transplantation Society Global Census: First Look at Pediatric Liver Transplantation Activity Around the World.** *Transplantation*
Rodriguez-Davalos, M. I., Lopez-Verdugo, F., Kasahara, M., Muiesan, P., Reddy, M. S., Flores-Huidobro Martinez, A., Xia, Q., Hong, J. C., Niemann, C. U., Seda-Neto, J., Miloh, T. A., Yi, N. J., Mazariegos, et al
2023
- **Outcomes after liver transplantation in MPV17 deficiency: A rebuttal.** *Pediatric transplantation*
Huang, A. C., Ebel, N. H., Romero, D., Enns, G. M., Esquivel, C. O., Bonham, C.
2023: e14472
- **Epstein-Barr virus-associated post-transplant lymphoproliferative disorders in pediatric transplantation: A prospective multicenter study in the United States**
Tajima, T., Bernstein, D., Boyd, S. D., Gratzinger, D., Lum, G., Sasaki, K., Tan, B., Twist, C. J., Weinberg, K., Robien, M. A., Brown, M., Armstrong, B., Desai, et al
WILEY.2023
- **High-dimensional profiling of pediatric immune responses to solid organ transplantation**
Rao, M., Amouzgar, M., Harden, J. T., Lapasaran, M. G., Trickey, A., Armstrong, B., Odum, J., Debnam, T., Esquivel, C. O., Bendall, S. C., Martinez, O. M., Krams, S. M.
WILEY.2023
- **Pediatric Liver Transplant at Long-Distance High-Volume Centers Confers Improved Graft Survival Compared to Local Low-Volume Transplant Centers**
Bozhilov, K., Stoltz, D., Bonham, A., Kirchner, V., Lum, G., Esquivel, C., Gallo, A.
WILEY.2023

- **High-resolution natural killer cell phenotyping by mass cytometry in pediatric transplant recipients**
Zhang, W., Pena, J. K., Boonrat, P., Harden, J. T., Esquivel, C. O., Martinez, O. M., Krams, S. M.
WILEY.2023
- **Amplified inferior outcomes for infant pediatric liver transplant candidates and recipients at low volume centers**
Stoltz, D., Bozhilov, K., Gallo, A., Kirchner, V., Lum, G., Mendoza, J., Esquivel, C., Bonham, A.
WILEY.2023
- **Extracellular vesicle microRNAs are decreased in pediatric solid-organ transplant recipients during EBV plus post-transplant lymphoproliferative disorder**
Sen, A., Enriquez, J., Rao, M., Esquivel, C. O., Martinez, O. M., Krams, S. M.
WILEY.2023
- **Mutations In Latent Membrane Protein 1 of Epstein-Barr Virus are Associated with Increased Risk for Post-Transplant Lymphoproliferative Disorder in Children.** *American journal of transplantation : official journal of the American Society of Transplantation and the American Society of Transplant Surgeons*
Martinez, O. M., Krams, S. M., Robien, M. A., Lapasaran, M. G., Arvedson, M. P., Reitsma, A., Balachandran, Y., Harris-Arnold, A., Weinberg, K., Boyd, S. D., Armstrong, B., Trickey, A., Twist, et al
2023
- **IDENTIFYING NOVEL GENE TARGETS FOR DIAGNOSIS AND TREATMENT OF HCC IN ASIAN AND CAUCASIAN POPULATIONS BASED ON WHOLE GENOME SEQUENCING**
Hong, S., Badshah, J., Aliwaisi, A., Sasaki, K., Pruett, T., Melcher, M., Bonham, C., Gallo, A., Martinez, O., Krams, S., Pham, K., Busque, S., Reitsma, et al
ELSEVIER SCIENCE INC.2023: S28
- **Characteristics and outcomes of hepatocellular carcinoma patients with macrovascular invasion following surgical resection: a meta-analysis of 40 studies and 8,218 patients.** *Hepatobiliary surgery and nutrition*
Huang, D. Q., Tran, A., Tan, E. X., Nerurkar, S. N., Teh, R., Teng, M. L., Yeo, E. J., Zou, B., Wong, C., Esquivel, C. O., Bonham, C. A., Nguyen, M. H.
2022; 11 (6): 848-860
- **The IPTA Nashville consensus conference on post-transplant lymphoproliferative disorders after solid organ transplantation in children: I-Methodology for the development of consensus practice guidelines.** *Pediatric transplantation*
Wilkinson, J. D., Allen, U., Green, M., Dipchand, A. I., Dharnidharka, V. R., Esquivel, C. O., Maecker-Kolhoff, B., Preiksaitis, J., Swerdlow, S. H., Webber, S. A., IPTA Pediatric PTLN Consensus Guidelines Conference
2022: e14333
- **The IPTA Nashville consensus conference on Post-Transplant lymphoproliferative disorders after solid organ transplantation in children: II-consensus guidelines for prevention.** *Pediatric transplantation*
Green, M., Squires, J. E., Chinnock, R. E., Comoli, P., Danziger-Isakov, L., Dulek, D. E., Esquivel, C. O., Hocker, B., L'Huillier, A. G., Mazariegos, G. V., Visner, G. A., Bollard, C. M., Dipchand, et al
2022: e14350
- **ANTIVIRAL THERAPY IS SEVERELY UNDERUTILIZED IN HEPATITIS B-AND HEPATITIS C-ASSOCIATED HEPATOCELLULAR CARCINOMA AFTER LIVER RESECTION: A REAL-HCC STUDY**
Huang, D., Kamal, R., Bonham, C., Tsai, P., Toyoda, H., Yeh, M., Yeh, M., Yasuda, S., Leong, J., Hoang, J., Maeda, M., Huang, C., Jun, et al
WILEY.2022: S1423-S1424
- **Exploring the Lower Weight Limit of Splitable Liver Grafts for Pediatric Recipients.** *Liver transplantation : official publication of the American Association for the Study of Liver Diseases and the International Liver Transplantation Society*
Stoltz, D. J., Esquivel, C. O., Gallo, A. E.
2022
- **Has the Risk of Liver Re-Transplantation Improved Over the Two Decades? A UNOS Data Analysis**
Kim, M. H., Melcher, M. L., Kirchner, V. A., Gallo, A. E., Bonham, C. A., Esquivel, C., Sasaki, K.
LIPPINCOTT WILLIAMS & WILKINS.2022: S294
- **Evolution of Thromboelastography Parameters During Pediatric Liver Transplantation**
Damian, M. I., Tawfik, D., Mendoza, J., Gallo, A., Esquivel, C.
LIPPINCOTT WILLIAMS & WILKINS.2022: S452-S453
- **Utilization and outcomes of hepatitis B-positive grafts in orthotopic liver transplantation in the United States, 1999-2021.** *Liver transplantation : official publication of the American Association for the Study of Liver Diseases and the International Liver Transplantation Society*

- Ali, S. E., Vutien, P., Bonham, C. A., Landis, C., Kwo, P., Esquivel, C., Nguyen, M. H.
2022
- **Outcomes after liver transplantation in MPV17 deficiency (Navajo neurohepatopathy): A single-center case series.** *Pediatric transplantation*
Huang, A. C., Ebel, N. H., Romero, D., Martin, B., Jhun, I., Brown, M., Enns, G. M., Esquivel, C., Bonham, C.
2022: e14274
 - **Human IL-10-producing B cells have diverse states that are induced from multiple B cell subsets.** *Cell reports*
Glass, M. C., Glass, D. R., Oliveria, J. P., Mbiribindi, B., Esquivel, C. O., Krams, S. M., Bendall, S. C., Martinez, O. M.
2022; 39 (3): 110728
 - **Re-transplantation in pediatric liver transplant: Indicators of intra-operative mortality**
Brubaker, A., Mendoza, J., Bonham, C. A., Damian, M. A., Esquivel, C. O., Gallo, A. E.
WILEY.2022
 - **Underutilized technical variant liver grafts show equal graft survival to whole liver grafts in pediatric liver transplantation**
Stoltz, D., Bonham, A., Lum, G., Ebel, N., Mendoza, J., Esquivel, C., Gallo, A.
WILEY.2022
 - **Towards identifying predictors of pediatric heart only versus combined heart liver transplantation**
Zhang, K., Chen, S., Syed, A., Gallo, A., Esquivel, C., Bonham, A., Hollander, S. A., Ma, M., Han, J., Ebel, N. H.
WILEY.2022
 - **Advanced quantitative 3D modeling techniques provide accurate liver volume estimations for children on the waitlist**
Sanchez-Garcia, J., Lopez-Verdugo, F., Kastenber, Z., Gagnon, A., Shorti, R., Krong, J., Fujita, S., Alonso, D., Zendejas, I., Esquivel, C. O., Rodriguez-Davalos, M. I.
WILEY.2022
 - **Age at the time of liver transplant and its effect on quality of life, anxiety, and depression in adolescent patients**
Marshall, A., Mandac, C., Boothroyd, D., Qin, F., McKenzie, R., Esquivel, C. O., Nasr, A.
WILEY.2022
 - **Neurologic complications in en bloc pediatric heart-liver transplants**
Pan, J., Bensen, R., Ebel, N., Mendoza, J., Ma, M., Hollander, S., Gallo, A., Esquivel, C. O., Bonham, A.
WILEY.2022
 - **Mutations in latent membrane protein 1 of Epstein Barr virus are associated with increased risk of post-transplant lymphoproliferative disorder**
Martinez, O. M., Krams, S. M., Robien, M., Lapasaran, M. M., Arvedson, M., Reitsma, A., Weinberg, K., Boyd, S., Armstrong, B., Twist, C., Gratzinger, D., Tan, B., Trickey, et al
WILEY.2022
 - **Quality improvement project to safely expedite liver biopsy in pediatric acute liver failure**
Mendoza, J., Ebel, N. H., Josephs, S., Wolke, O., Depper, J., Bonham, C. A., Damian, M. A., Esquivel, C. O., Gallo, A.
WILEY.2022
 - **Characteristics and outcomes of hepatocellular carcinoma patients with macrovascular invasion following surgical resection: a meta-analysis of 40 studies and 8,218 patients** *HEPATOBIILIARY SURGERY AND NUTRITION*
Huang, D. Q., Tran, A., Tan, E. X., Nerurkar, S. N., Teh, R., Teng, M. P., Yeo, E., Zou, B., Wong, C., Esquivel, C. O., Bonham, C., Nguyen, M. H.
2022
 - **Global and regional long-term survival following resection for HCC in the recent decade: A meta-analysis of 110 studies.** *Hepatology communications*
Reveron-Thornton, R. F., Teng, M. L., Lee, E. Y., Tran, A., Vajanaphanich, S., Tan, E. X., Nerurkar, S. N., Ng, R. X., Teh, R., Tripathy, D. P., Ito, T., Tanaka, T., Miyake, et al
2022
 - **Neurologic complications in en bloc pediatric heart-liver transplants**
Pan, J., Bensen, R., Ebel, N., Mendoza, J., Ma, M., Hollander, S., Gallo, A., Esquivel, C., Bonham, A.
WILEY.2022: 80
 - **Host microRNAs are decreased in pediatric solid-organ transplant recipients during EBV+ Post-transplant Lymphoproliferative Disorder.** *Frontiers in immunology*

- Sen, A., Enriquez, J., Rao, M., Glass, M., Balachandran, Y., Syed, S., Twist, C. J., Weinberg, K., Boyd, S. D., Bernstein, D., Trickey, A. W., Gratzinger, D., Tan, et al
2022; 13: 994552
- **Underutilized technical variant liver grafts show equal graft survival to whole liver grafts in pediatric liver transplantation**
Gallo, A., Brubaker, A., Lum, G., Esquivel, C., Bonham, A.
WILEY.2022: 89
 - **META-ANALYSIS: REGIONAL DIFFERENCES IN OUTCOMES OF SURGICAL RESECTION FOR HEPATOCELLULAR CARCINOMA**
Teng, M., Reveron-Thornton, R., Lee, E. Y., Tran, A., Vajanaphanich, S., Tan, X., Nerurkar, S. N., Ng, R., Teh, R., Prasad, D., Ito, T., Tanaka, T., Miyake, et al
WILEY.2021: 859A
 - **LONG-TERM OVERALL AND RECURRENCE-FREE SURVIVAL FOLLOWING CURATIVE SURGICAL RESECTION FOR HEPATOCELLULAR CARCINOMA IN THE RECENT DECADE: A META-ANALYSIS OF 110 STUDIES AND 82,392 PATIENTS**
Reveron-Thornton, R., Teng, M., Lee, E. Y., Tran, A., Vajanaphanich, S., Tan, X., Nerurkar, S. N., Ng, R., Teh, R., Prasad, D., Ito, T., Tanaka, T., Miyake, et al
WILEY.2021: 655A-656A
 - **UTILIZATION AND OUTCOMES OF HEPATITIS B-POSITIVE GRAFTS IN ORTHOTOPIC LIVER TRANSPLANTATION (OLT) IN THE UNITED STATES, 1987-2020**
Ali, S., Vutien, P., Bonham, C., Landis, C., Kwo, P., Esquivel, C. O., Nguyen, M. H.
WILEY.2021: 919A-920A
 - **OVERALL (OS) AND RECURRENCE-FREE SURVIVAL (RFS) FOLLOWING SURGICAL RESECTION FOR HEPATOCELLULAR CARCINOMA (HCC) WITH MACROVASCULAR INVASION (MVI): A META-ANALYSIS OF 40 STUDIES AND 8,218 PATIENTS**
Huang, D., Tran, A., Tan, X., Quek, S., Nerurkar, S., Teh, R., Teng, M., Yeo, E., Zou, B., Wong, C., Cheung, R. C., Esquivel, C. O., Bonham, et al
WILEY.2021: 861A
 - **Predictors of Outcomes of Patients Referred to a Transplant Center for Urgent Liver Transplantation Evaluation.** *Hepatology communications*
Alshuwaykh, O., Kwong, A., Goel, A., Cheung, A., Dhanasekaran, R., Ahmed, A., Daugherty, T., Dronamraju, D., Kumari, R., Kim, W. R., Nguyen, M. H., Esquivel, C. O., Concepcion, et al
2021; 5 (3): 516-525
 - **Operative Technique of Donor Organ Procurement for En Bloc Heart-Liver Transplantation.** *Transplantation*
Elde, S. n., Brubaker, A. L., Than, P. A., Rinewalt, D. n., MacArthur, J. W., Alassar, A. n., Bonham, C. A., Esquivel, C. O., Shudo, Y. n., Concepcion, W. n., Woo, Y. J.
2021
 - **Optimal Timing of Administration of Direct-acting Antivirals for Patients With Hepatitis C-associated Hepatocellular Carcinoma Undergoing Liver Transplantation.** *Annals of surgery*
Turgeon, M. K., Shah, S. A., Delman, A. M., Tran, B. V., Agopian, V. G., Wedd, J. P., Magliocca, J. F., Kim, A., Cameron, A., Olyaei, A., Orloff, S. L., Anderson, M. P., Kubal, et al
2021; 274 (4): 613-620
 - **High-resolution phenotyping of early acute rejection reveals a conserved alloimmune signature.** *Cell reports*
Harden, J. T., Wang, X. n., Toh, J. n., Sang, A. X., Brown, R. A., Esquivel, C. O., Martinez, O. M., Krams, S. M.
2021; 34 (9): 108806
 - **Predictors of Outcomes of Patients Referred to a Transplant Center for Urgent Liver Transplantation Evaluation** *HEPATOLOGY COMMUNICATIONS*
Alshuwaykh, O., Kwong, A., Goel, A., Cheung, A., Dhanasekaran, R., Ahmed, A., Daugherty, T., Dronamraju, D., Kumari, R., Kim, W., Esquivel, C. O., Concepcion, W., Melcher, et al
2020
 - **Epstein-Barr virus peptides derived from latent cycle proteins alter NKG2A+NK cell effector function.** *Scientific reports*
Mbiribindi, B., Pena, J. K., Arvedson, M. P., Moreno Romero, C., McCarthy, S. R., Hatton, O. L., Esquivel, C. O., Martinez, O. M., Krams, S. M.
2020; 10 (1): 19973
 - **PERIOPERATIVE MANAGEMENT AND POST-LIVER TRANSPLANTATION OUTCOMES IN UREA CYCLE DISORDERS, MAPLE SYRUP URINE DISEASE AND ORGANIC ACIDEMIAS: 20 YEARS' EXPERIENCE**
Ebel, N., Vuong, P., Baker, C., Brubaker, A., Than, P., Enns, G., Esquivel, C. O.
WILEY.2020: 881A-882A

- **CHOLEDOCHODUODENOSTOMY FOR BILIOENTERIC RECONSTRUCTION IN PEDIATRIC LIVER TRANSPLANTATION**
Vuong, P., Lee, L., Brubaker, A., Than, P., Bonham, C. A., Gallo, A., Concepcion, W., Esquivel, C. O.
LIPPINCOTT WILLIAMS & WILKINS.2020: S551
- **The Emerging Need for Combined Heart and Liver Transplantation in Congenital Heart Disease** *CURRENT TRANSPLANTATION REPORTS*
Than, P. A., Brubaker, A. L., Ebel, N. H., Profita, E. L., Esquivel, C. O.
2020; 7 (3): 180-186
- **PERIOPERATIVE MANAGEMENT AND POST-LIVER TRANSPLANTATION OUTCOMES IN METHYLMALONIC ACIDEMIA, PROPIONIC ACIDEMIA AND UREA CYCLE DISORDERS: OUR 20 YEAR EXPERIENCE**
Vuong, P., Ebel, N., Baker, C. V., Brubaker, A., Than, P., Enns, G., Esquivel, C. O.
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