

Stanford



Colin Lenihan

Clinical Associate Professor, Medicine - Nephrology

CLINICAL OFFICE (PRIMARY)

- **Stanford Kidney Transplant**

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Bio

CLINICAL FOCUS

- Nephrology
- Kidney Transplant

ACADEMIC APPOINTMENTS

- Clinical Associate Professor, Medicine - Nephrology

PROFESSIONAL EDUCATION

- Board Certification: Nephrology, American Board of Internal Medicine (2020)
- Board Certification: Internal Medicine, American Board of Internal Medicine (2019)
- Fellowship: Stanford University Nephrology Fellowship (2014) CA
- Board Certification: Nephrology, Royal College of Physicians of Ireland (2012)
- Fellowship: Stanford University Transplant Nephrology Fellowship (2012) CA
- Residency: Royal College of Physicians in Ireland (2012) Ireland
- Residency: Mater Misericordiae (2004) Ireland
- Internship: St Vincent's University Hospital (2002) Ireland
- Medical Education: University College Dublin (2001) Ireland
- Fellowship, Stanford University, California , Nephrology (2015)
- PhD, University College Dublin, Ireland (2013)
- CCST, Royal College of Physicians in Ireland , Nephrology and Internal Medicine (2012)
- Fellowship, Stanford University, California , Transplant Nephrology (2012)
- Basic Medical Training, Royal College of Physicians in Ireland (2004)
- MB BCH BAO, University College Dublin, Ireland (2001)

Research & Scholarship

CLINICAL TRIALS

- Delayed Blood Stem Transplantation in HLA Matched Kidney Transplant Recipients to Eliminate Immunosuppressive Drugs., Recruiting

Publications

PUBLICATIONS

- **Unmasking primary aldosteronism after kidney transplantation: a case series.** *Journal of human hypertension*
Hernandez, M. F., Lenihan, C., Bhalla, V., Charu, V., Cheng, X. S.
2026
- **Expanding the Overton Window in Deceased Kidney Donor Eligibility-Enough to Make a Difference?** *JAMA*
Cheng, X. S., Lenihan, C. R.
2024
- **Dialysis Modality, Transplant Characteristics, and Incident Atrial Fibrillation After Kidney Transplant: An Observational Study Using USRDS Data.** *Kidney medicine*
Garcia, L. P., Liu, S., Lenihan, C. R., Montez-Rath, M. E., Chang, T. I., Winkelmayer, W. C., Khairallah, P.
2024; 6 (1): 100741
- **Kidney Stone Events after Kidney Transplant in the United States.** *Clinical journal of the American Society of Nephrology : CJASN*
Ganesan, C., Holmes, M., Liu, S., Montez-Rath, M., Conti, S., Chang, T. C., Lenihan, C. R., Cheng, X. S., Chertow, G. M., Leppert, J. T., Pao, A. C.
2023
- **Parathyroidectomy and Cinacalcet Use in Medicare-Insured Kidney Transplant Recipients.** *American journal of kidney diseases : the official journal of the National Kidney Foundation*
Wang, A. X., Liu, S., Montez-Rath, M. E., Chertow, G. M., Lenihan, C. R.
2022
- **SARS-CoV-2 Neutralizing Monoclonal Antibodies for the Treatment of COVID-19 in Kidney Transplant Recipients.** *Kidney360*
Wang, A. X., Busque, S., Kuo, J., Singh, U., Roeltgen, K., Pinsky, B. A., Chertow, G. M., Scandling, J. D., Lenihan, C. R.
2022; 3 (1): 133-143
- **Post-Transplant Nephrocalcinosis: A Single-Center Case Series**
Wang, A., Charu, V., Lenihan, C. R.
AMER SOC NEPHROLOGY.2021: 843
- **The Association of Pre-Kidney Transplant Dialysis Modality with de novo Posttransplant Heart Failure** *CARDIORENAL MEDICINE*
Lenihan, C. R., Liu, S., Airy, M., Walther, C., Montez-Rath, M. E., Winkelmayer, W. C.
2021: 1-9
- **Progression of Proliferative Glomerulonephritis with Monoclonal IgG Deposits in Pediatric Patients**
Miller, P., Xiao, A., Kung, V., Sibley, R., Higgins, J., Kambham, N., Charu, V., Lenihan, C., Talley, E., Walavalkar, V., Laszik, G., Arora, N., Nast, et al
NATURE PUBLISHING GROUP.2020: 1589–90
- **Progression of Proliferative Glomerulonephritis with Monoclonal IgG Deposits in Pediatric Patients**
Miller, P., Xiao, A., Kung, V., Sibley, R., Higgins, J., Kambham, N., Charu, V., Lenihan, C., Talley, E., Walavalkar, V., Laszik, G., Arora, N., Nast, et al
NATURE PUBLISHING GROUP.2020: 1589–90
- **Influence of Immunosuppression on Seroconversion Against SARS-Cov-2 in Two Kidney Transplant Recipients.** *Transplant infectious disease : an official journal of the Transplantation Society*
Wang, A. X., Quintero Cardona, O. n., Ho, D. Y., Busque, S. n., Lenihan, C. R.
2020: e13423
- **Progression of proliferative glomerulonephritis with monoclonal IgG deposits in pediatric patients.** *Pediatric nephrology (Berlin, Germany)*
Miller, P. n., Xiao, A. Y., Kung, V. L., Sibley, R. K., Higgins, J. P., Kambham, N. n., Charu, V. n., Lenihan, C. n., Uber, A. M., Talley, E. M., Arora, N. n., Walavalkar, V. n., Laszik, et al

2020

- **Trends in the Medical Complexity and Outcomes of Medicare-insured Patients Undergoing Kidney Transplant in the Years 1998-2014** *TRANSPLANTATION*
Lenihan, C. R., Liu, S., Montez-Rath, M. E., Winkelmayer, W. C.
2019; 103 (11): 2413–22
- **THE RISK OF DE NOVO ANTI-HLA ANTIBODY FORMATION ASSOCIATED WITH SEASONAL INFLUENZA VACCINATION IN HEMODIALYSIS-TREATED PATIENTS ON THE KIDNEY TRANSPLANT WAITING LIST**
Liu, H., Chen, G., Lin, L., Tyan, D. B., Lenihan, C.
ELSEVIER SCIENCE INC.2019: 177–78
- **ADRENAL INSUFFICIENCY AFTER BILATERAL NEPHRECTOMY FOR POLYCYSTIC KIDNEY DISEASE**
Bolanos, C. G., Lenihan, C. R.
W B SAUNDERS CO-ELSEVIER INC.2019: 658–59
- **Combined Deceased Donor Parathyroid and Kidney Transplantation - An Underutilized Approach for ESRD Patients with Permanent Hypoparathyroidism**
Lee, L., Pan, J., Vasa, P., Berry, G., Lenihan, C., Busque, S.
WILEY.2019: 56
- **Association Between Type of Vascular Access Used in Hemodialysis Patients and Subsequent Kidney Transplant Outcomes.** *Kidney medicine*
Airy, M. n., Lenihan, C. R., Ding, V. Y., Montez-Rath, M. E., Cheng, J. n., Navaneethan, S. D., Wasse, H. n., Winkelmayer, W. C.
2019; 1 (6): 383–90
- **Proton Pump Inhibitors, Histamine-2 Receptor Antagonists, and Hip Fracture Risk among Patients on Hemodialysis.** *Clinical journal of the American Society of Nephrology : CJASN*
Vangala, C., Niu, J., Lenihan, C. R., Mitch, W. E., Navaneethan, S. D., Winkelmayer, W. C.
2018; 13 (10): 1534–41
- **De Novo Heart Failure After Kidney Transplantation: Trends in Incidence and Outcomes.** *American journal of kidney diseases : the official journal of the National Kidney Foundation*
Lenihan, C. R., Liu, S., Deswal, A., Montez-Rath, M. E., Winkelmayer, W. C.
2018
- **Statin use and hip fractures in US kidney transplant recipients** *BMC NEPHROLOGY*
Vangala, C., Lenihan, C. R., Montez-Rath, M. E., Nair, S. S., Navaneethan, S. D., Ramanathan, V., Winkelmayer, W. C.
2017; 18
- **Proton Pump Inhibitor Use and Risk of Hip Fracture in Kidney Transplant Recipients** *AMERICAN JOURNAL OF KIDNEY DISEASES*
Lenihan, C. R., Nair, S. S., Vangala, C., Ramanathan, V., Montez-Rath, M. E., Winkelmayer, W. C.
2017; 69 (5): 595-601
- **Drug-Eluting Stents Versus Bare Metal Stents for Percutaneous Coronary Intervention in Kidney Transplant Recipients.** *Transplantation*
Lenihan, C. R., Montez-Rath, M. E., Winkelmayer, W. C., Chang, T. I.
2017; 101 (4): 851-857
- **Drug-Eluting Stents Versus Bare Metal Stents for Percutaneous Coronary Intervention in Kidney Transplant Recipients** *TRANSPLANTATION*
Lenihan, C. R., Montez-Rath, M. E., Winkelmayer, W. C., Chang, T. I.
2017; 101 (4): 851-857
- **Kidney Transplantation Outcomes across GN Subtypes in the United States** *JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY*
O'Shaughnessy, M. M., Liu, S., Montez-Rath, M. E., Lenihan, C. R., Lafayette, R. A., Winkelmayer, W. C.
2017; 28 (2): 632-644
- **Proton Pump Inhibitor Use and Risk of Hip Fracture in Kidney Transplant Recipients.** *American journal of kidney diseases*
Lenihan, C. R., Nair, S. S., Vangala, C., Ramanathan, V., Montez-Rath, M. E., Winkelmayer, W. C.
2016

- **Prolyl hydroxylase-1 regulates hepatocyte apoptosis in an NF- κ B-dependent manner.** *Biochemical and biophysical research communications*
Fitzpatrick, S. F., Fábán, Z., Schaible, B., Lenihan, C. R., Schwarzl, T., Rodriguez, J., Zheng, X., Li, Z., Tambuwala, M. M., Higgins, D. G., O'Meara, Y., Slattery, C., Manresa, et al
2016; 474 (3): 579-86
- **The Dawning of a New Day in CKD Anemia Care?** *Journal of the American Society of Nephrology*
Lenihan, C. R., Winkelmayer, W. C.
2016; 27 (4): 968-970
- **Glomerular Function and Structure in Living Donors: Lessons from Single Nephron Studies.** *Current transplantation reports*
Lenihan, C. R., Myers, B. D., Tan, J. C.
2016; 3: 24-32
- **Glomerular Function and Structure in Living Donors: Lessons from Single Nephron Studies.** *Current transplantation reports*
Lenihan, C. R., Myers, B. D., Tan, J. C.
2016; 3: 24-32
- **Outcomes After Warfarin Initiation in a Cohort of Hemodialysis Patients With Newly Diagnosed Atrial Fibrillation.** *American journal of kidney diseases*
Shen, J. I., Montez-Rath, M. E., Lenihan, C. R., Turakhia, M. P., Chang, T. I., Winkelmayer, W. C.
2015; 66 (4): 677-688
- **The Association of Predonation Hypertension with Glomerular Function and Number in Older Living Kidney Donors** *JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY*
Lenihan, C. R., Busque, S., Derby, G., Blouch, K., Myers, B. D., Tan, J. C.
2015; 26 (6): 1261-1267
- **Longitudinal study of living kidney donor glomerular dynamics after nephrectomy** *JOURNAL OF CLINICAL INVESTIGATION*
Lenihan, C. R., Busque, S., Derby, G., Blouch, K., Myers, B. D., Tan, J. C.
2015; 125 (3): 1311-1318
- **Correlates and outcomes of warfarin initiation in kidney transplant recipients newly diagnosed with atrial fibrillation.** *Nephrology, dialysis, transplantation : official publication of the European Dialysis and Transplant Association - European Renal Association*
Lenihan, C. R., Montez-Rath, M. E., Shen, J. I., Scandling, J. D., Turakhia, M. P., Chang, T. I., Winkelmayer, W. C.
2015; 30 (2): 321-329
- **Comparison of longer-term outcomes after kidney transplantation between Hispanic and non-Hispanic whites in the United States.** *American journal of transplantation*
Arce, C. M., Lenihan, C. R., Montez-Rath, M. E., Winkelmayer, W. C.
2015; 15 (2): 499-507
- **Glomerular Effects of Age and APOL1.** *Journal of the American Society of Nephrology : JASN*
Meyer, T. W., Lenihan, C. R.
2015
- **The Consequences of Chronic Kidney Disease Mislabeling in Living Kidney Donors** *MAYO CLINIC PROCEEDINGS*
Lenihan, C. R., Tan, J. C.
2014; 89 (8): 1126-1129
- **The consequences of chronic kidney disease mislabeling in living kidney donors.** *Mayo Clinic proceedings*
Lenihan, C. R., Tan, J. C.
2014; 89 (8): 1126-9
- **Temporal trends in the incidence, treatment and outcomes of hip fracture after first kidney transplantation in the United States.** *American journal of transplantation*
Sukumaran Nair, S., Lenihan, C. R., Montez-Rath, M. E., Lowenberg, D. W., Chertow, G. M., Winkelmayer, W. C.
2014; 14 (4): 943-951
- **A new clinical prediction tool for 5-year kidney transplant outcome.** *American journal of kidney diseases*
Lenihan, C. R., Lockridge, J. B., Tan, J. C.

2014; 63 (4): 549-551

- **Differences in Access to Kidney Transplantation between Hispanic and Non-Hispanic Whites by Geographic Location in the United States** *CLINICAL JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY*
Arce, C. M., Goldstein, B. A., Mitani, A. A., Lenihan, C. R., Winkelmayer, W. C.
2013; 8 (12): 2149-2157
- **Acute transplant glomerulopathy with monocyte rich infiltrate.** *Transplant immunology*
Lenihan, C. R., Tan, J. C., Kambham, N.
2013; 29 (1-4): 114-117
- **Multivessel coronary revascularization and outcomes in kidney transplant recipients.** *Transplant international*
Lenihan, C. R., Montez-Rath, M. E., Winkelmayer, W. C., Chang, T. I.
2013; 26 (11): 1080-1087
- **High-potency statins and acute kidney injury-associated hospitalizations.** *American journal of kidney diseases*
Lenihan, C. R., Lafayette, R. A.
2013; 62 (5): 877-879
- **Outcomes after kidney transplantation of patients previously diagnosed with atrial fibrillation.** *American journal of transplantation*
Lenihan, C. R., Montez-Rath, M. E., Scandling, J. D., Turakhia, M. P., Winkelmayer, W. C.
2013; 13 (6): 1566-1575
- **The impact of hypoxia on cell death pathways** *BIOCHEMICAL SOCIETY TRANSACTIONS*
Lenihan, C. R., Taylor, C. T.
2013; 41: 657-663
- **Comorbidities and Kidney Transplant Evaluation in the Elderly** *AMERICAN JOURNAL OF NEPHROLOGY*
Lenihan, C. R., Hurley, M. P., Tan, J. C.
2013; 38 (3): 204-211
- **Trends in Acute Kidney Injury, Associated Use of Dialysis, and Mortality After Cardiac Surgery, 1999 to 2008** *ANNALS OF THORACIC SURGERY*
Lenihan, C. R., Montez-Rath, M. E., Mangano, C. T., Chertow, G. M., Winkelmayer, W. C.
2013; 95 (1): 20-28
- **Trends in acute kidney injury, associated use of dialysis, and mortality after cardiac surgery, 1999 to 2008.** *Annals of thoracic surgery*
Lenihan, C. R., Montez-Rath, M. E., Mora Mangano, C. T., Chertow, G. M., Winkelmayer, W. C.
2013; 95 (1): 20-28
- **Hypercapnia Induces Cleavage and Nuclear Localization of RelB Protein, Giving Insight into CO₂ Sensing and Signaling** *JOURNAL OF BIOLOGICAL CHEMISTRY*
Oliver, K. M., Lenihan, C. R., Bruning, U., Cheong, A., Laffey, J. G., McLoughlin, P., Taylor, C. T., Cummins, E. P.
2012; 287 (17): 14004-14011
- **An Intact Canonical NF-kappa B Pathway Is Required for Inflammatory Gene Expression in Response to Hypoxia** *JOURNAL OF IMMUNOLOGY*
Fitzpatrick, S. F., Tambuwala, M. M., Bruning, U., Schaible, B., Scholz, C. C., Byrne, A., O'Connor, A., Gallagher, W. M., Lenihan, C. R., Garvey, J. F., Howell, K., Fallon, P. G., Cummins, et al
2011; 186 (2): 1091-1096
- **Loss of Prolyl Hydroxylase-1 Protects Against Colitis Through Reduced Epithelial Cell Apoptosis and Increased Barrier Function** *GASTROENTEROLOGY*
Tambuwala, M. M., Cummins, E. P., Lenihan, C. R., Kiss, J., Stauch, M., Scholz, C. C., Fraisl, P., Lasitschka, F., Mollenhauer, M., Saunders, S. P., Maxwell, P. H., Carmeliet, P., Fallon, et al
2010; 139 (6): 2093-2101
- **NF-kappa B Links CO₂ Sensing to Innate Immunity and Inflammation in Mammalian Cells** *JOURNAL OF IMMUNOLOGY*
Cummins, E. P., Oliver, K. M., Lenihan, C. R., Fitzpatrick, S. F., Bruning, U., Scholz, C. C., Slattery, C., Leonard, M. O., McLoughlin, P., Taylor, C. T.
2010; 185 (7): 4439-4445

- **MDRD-estimated GFR at one year post-renal transplant is a predictor of long-term graft function** *RENAL FAILURE*
Lenihan, C. R., O'Kelly, P., Mohan, P., Little, D., Walshe, J. J., Kieran, N. E., Conlon, P. J.
2008; 30 (4): 345-352