



## Riya Nilkant

MD Student, expected graduation Spring 2031

### Publications

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#### PUBLICATIONS

- **Impact of leaflet stiffness in aortic valve neocuspidization in ex vivo biomechanical simulation.** *JTCVS open*  
Shibata, M., Lee, J. Y., Sharir, A., Nilkant, R., Kim, J. B., Mullis, D. M., Okamura, K., Choi, P., Ono, Y., Zhu, Y., Park, M., Woo, J., Ma, et al  
2026; 29: 101558
- **In vivo growing leporine model of pulmonary artery banding induces inflammation and vascular remodeling via pathways conserved across species.** *JTCVS open*  
Mullis, D. M., Lee, J. Y., Shibata, M., Arana, V. T., Kidambi, S., Sharir, A., Choi, P. S., Ikeda, G., Nilkant, R., Takashima, H., Ueyama, T., Huber, J. A., Woo, et al  
2026; 29: 101560
- **Histologic changes in systemically loaded right ventricles at time of transplantation.** *Frontiers in cardiovascular medicine*  
Nilkant, R., Choi, P. S., Mullis, D. M., Chang, R., Sharir, A., Reddy, S., Pelletier, G. J., Ma, M.  
2025; 12: 1640561
- **A Low-Cost, Open-Source 3D Printer for Multimaterial and High-Throughput Direct Ink Writing of Soft and Living Materials.** *Advanced materials (Deerfield Beach, Fla.)*  
Weiss, J. D., Mermin-Bunnell, A., Solberg, F. S., Tam, T., Rosalia, L., Sharir, A., Rüttsche, D., Sinha, S., Choi, P. S., Shibata, M., Palagani, Y., Nilkant, R., Paulvannan, et al  
2025: e2414971
- **Unlocking the promise of mesenchymal stem cells and extracorporeal photopheresis to address rejection and graft failure in intestinal transplant recipients.** *Human immunology*  
Levitte, S., Nilkant, R., Jensen, A. R., Zhang, K. Y.  
2024; 85 (6): 111160
- **Minimally invasive 2-patch repair technique for sinus venosus atrial septal defects.** *JTCVS techniques*  
Reed, A. K., Nilkant, R., Hochstein, J., Choi, P. S., Ma, M., Woo, Y. J.  
2024; 27: 116-118
- **Pediatric Combined Heart-liver Transplantation: A Single-center Long-term Experience.** *Transplantation direct*  
Levitte, S., Nilkant, R., Chen, S., Beadles, A., Lee, J., Bonham, C. A., Rosenthal, D., Gallo, A., Hollander, S., Esquivel, C., Ma, M., Zhang, K. Y.  
2024; 10 (9): e1696
- **Heart-Liver Transplantation Utilizing the En Bloc Technique: A Single-Center Experience Over Two Decades.** *The Journal of thoracic and cardiovascular surgery*  
Mullis, D. M., Garrison, A., Heng, E., Zhu, Y., Elde, S., Nilkant, R., Boyd, J., Hiesinger, W., Lee, A., Shudo, Y., Gallo, A., Bonham, C. A., Woo, et al  
2024
- **Long-Term Outcomes After Lung Transplantation in Children With Intellectual Disabilities.** *Pediatric transplantation*  
Lee, J. Y., Mullis, D. M., Zawadzki, R. S., Nilkant, R., Kuhan, S., Kidambi, S., Sharir, A., Ma, M.  
2024; 28 (5): e14807

- **Diversifying cardiac intensive care unit models: Successful example of an operating surgeon-led unit.** *JTCVS open*  
Choi, P. S., Pines, K. C., Swaminathan, A., Nilkant, R., Mendez, M. A., He, H., Woo, Y. J., Martin, B.  
2023; 16: 524-531
- **Mesenchymal stem cell-derived extracellular vesicles for the treatment of acute rejection in pediatric and adult bowel transplant.** *American journal of transplantation : official journal of the American Society of Transplantation and the American Society of Transplant Surgeons*  
Levitte, S., Zhang, K. Y., Guevara-Tique, A. A., Ganguly, A., Dulken, B. W., Nilkant, R., Rigmaiden, M., Kumari, R., Khlifi, K., Thakor, A. S., Bonham, C. A.  
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