

Prince Singh, MBBS

Curriculum Vitae

Consultant Nephrologist
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Summary of Expertise

Accomplished kidney disease specialist with board certifications in internal medicine and nephrology and passion for diagnosing and treating kidney disease patients with evidence-based care. Published author with over a dozen publications in various professional journals including *Nature Reviews Nephrology* and *Journal of American Society of Nephrology*. Recognized for excellence in teaching and mentoring medical students with the recent receipt of an award from Mayo Clinic College of Medicine in 2021.

Areas of Expertise

- Resistant and Secondary Hypertension
- Kidney Stones, Common and Rare Types
- Acute Kidney Failure
- Chronic Kidney Disease
- Dialysis – Peritoneal and Hemodialysis
- Kidney and Pancreas Transplantation
- Diabetic Kidney Disease
- Glomerulonephritis
- Onco-nephrology
- Electrolytes and Acid Base Disorders

Selected Achievements

- Current Fellow of American Society of Nephrology and American College of Physicians.
- Extensive training at Mayo Clinic, Minnesota for Nephrology and at Duke University for Transplant Nephrology.
- Standing Editorial Fellow at American Journal of Transplantation.
- Ranked 82 out of +100K applicants for medical school admissions in India.

Professional Experience

St. Luke's Health, Duluth, MN **Attending Nephrologist**

2022 – Present

Deliver kidney care to patients referred throughout a large catchment area in the NorthShore of Minnesota. Provide hemodialysis care to patients with end stage kidney disease in Duluth and surrounding area. Evaluate kidney failure patients and issue referrals for kidney transplantation. Diagnose and treat complex hypertension cases referred from primary care physicians.

Duke University Health System, Durham, NC **Clinical Fellow**

2021 – 2022

Evaluated kidney recipient and donor candidates for patients with end stage kidney disease. Facilitated immediate post-operative care to patients with kidney transplantation including needs for continuous dialysis. Orchestrated long-term care and management of kidney transplant patients including management of viral infections, anemia, and preparation for re-transplantation.

Mayo Clinic, Rochester, MN **Nephrology Fellow**

2018 – 2021

Navigated diagnosis and management of patients referred to Mayo Clinic from national and international areas. Provided bedside teaching for Internal Medicine Residents and Medical Students. Prepared and presented journal and case studies during weekly and monthly faculty meetings.

NYU Winthrop Hospital, Mineola, NY **Resident Physician/Instructor in Medicine SUNY Stony Brook**

2015 – 2018

Led multidisciplinary bedside rounds for patients admitted to medicine services. Delivered instruction on ICU medicine with cardiology and critical care fellows. Provided bedside teaching of second- and third-year medical students.

Mayo Clinic, Rochester, MN **Research Fellow/Research Trainee**

2013 – 2015

Drove execution of Aging Kidney Anatomy Project, an NIH funded project studying age-related histological and functional changes in kidney function. Led Rochester Epidemiology Project, an NIH funded project studying epidemiology of kidney stones formers in Olmsted County, Minnesota.

St. Martinus University Faculty of Medicine, Netherlands Antilles **Instructor in Medicine**

2012 – 2013

Prepared and delivered lectures in biochemistry and pharmacology to first- and second-year medical students. Developed curriculum for medical students.

Board Certifications and Licensure

Medical License

State of Minnesota, 2022 – Present

Medical License

State of North Carolina, 2021 – Present

American Board of Internal Medicine (ABIM)

Nephrology, 2021 – Present

Internal Medicine, 2019 – Present

American Heart Association (AHA)

Advanced Cardiovascular Life Support (ACLS), 2019 – Present

American Society of Hypertension (AHSCP)

Specialist in Clinical Hypertension, 2020 – Present

Mayo Clinic Quality Academy

Mayo Clinic Quality Fellow, Bronze Level Certification, 2014

Education and Credentials

Bachelor of Medicine, Bachelor of Surgery, (MBBS), Medicine

Nalanda Medical College and Hospital, Patna, Bihar, India

Intermediate Science

Patna Science College, Patna India

Professional Development

Writing and Publishing High-Impact Research Manuscripts Workshop

Mayo Clinic Annual Course on Biomedical Writing

3/2020

22nd International Conference on Dialysis

Annual Course on Dialysis with Updates

1/2020

2019 Midwest Nephrology and Transplant Symposium Fellow

Washington University, Saint Louis, MO

10/2019

Hot Topics in Immunosuppression

University of Minnesota, Minneapolis, MN

9/2019

American Society of Transplantation – Fellows Symposium

AST 2019 Annual Symposium, Dallas, TX

9/2019

Affiliations

American Society of Nephrology
Renal Physician Association
American Society of Transplantation
The Transplantation Society
Catholic Medical Association

Awards

Excellence in Teaching, Mayo Clinic College of Arts and Science, 2021.
Travel grant for oral presentation at Oxalosis and Hyperoxaluria Foundation Meeting, Boston, MA, 2019.
Travel grant for oral presentation at Oxalosis and Hyperoxaluria Foundation Meeting, Chicago, IL, 2014.
Excellence in Teaching, St. Martinus University School, Curacao, 2013.
Merit-Based Scholarship for Medical School Tuition Support, India, 2008 – 2009.

Editorial Responsibilities

Clinical Case Fellow, Doximity, San Francisco, CA, 2022 – Present

Editorial Fellow, American Society of Transplantation, Durham, NC, 2022 – Present

Publications

1. Singh P, Luo, Xunrong. Research Highlights Transplantation. 2021.
2. Singh P. Pathophysiology and Manifestations of Kidney Disease. In: Richard Urman, Alan Kaye, editor(s). Cambridge Handbook of Anesthesiology. 2020.
3. Singh P, Vaughan LE, Schulte PJ, Sas DJ, Milliner DS, Lieske JC. Estimated GFR Slope Across CKD Stages in Primary Hyperoxaluria Type 1 Am. J Kidney Dis. 2022 Mar 16; S0272-6386(22)00531-5. PMID: 35306035
4. Singh P, Harris PC, Sas DJ, Lieske JC. The genetics of kidney stone disease and nephrocalcinosis Nat Rev Nephrol. 2021 Dec 14;doi:10.1038/s41581-021-00513-4. PMID: 34907378
5. Singh P, Granberg CF, Harris PC, Lieske JC, Licht JH, Weiss A, Milliner DS. Primary Hyperoxaluria Type 3 Can Also Result in Kidney Failure: A Case Report Am J Kidney Dis. 2021 Jul 7;S0272-6386(21)00705-8. doi: 10.1053/j.ajkd.2021.05.016 PMID: 34245816
6. Cullen GD, Singh P, Gregoire JS. Inguinoscrotal herniation of the bladder: A rare case of obstructive uropathy. Urol Case Rep. 2021 Jun 11;39:101751. doi: 10.1016/j.eucr.2021.101751. PMID: 34195004 PMCID: PMC8233125
7. Sara J DS, Singh P, Albright RC. Controversies in cardio-nephrology: contrast nephropathy. Int Urol Nephrol. 2021 June 15. doi: 10.1007/s11255-021-02925-4 PMID: 34131857
8. Singh P, Wang M, Prince S, Tang Y, Zhong X, Chen S, Li G, Wang L, Wang W. Macroscopic hematuria in wasp sting patients: a retrospective study. Ren Fail. 2021 Dec; 43 (1):500-509 PMID: 33706645 PMCID: 7971319 DOI: 10.1080/0886022X.2021.1896547
9. Singh P, Miao J, Schwartz GL. Rather Unusual Cause of Seizures. Am J Med. 2021 Jun; 134 (6):e380- e381 Epub 2021 Jan 14 PMID: 33359777 DOI: 10.1016/j.amjmed.2020.11.015
10. Sy-Go JPT, Singh P, Gregoire JR. A tale of 100 kidney stones. Kidney Int. 2021 Jun; 99 (6):1502 PMID: 34023032 DOI: 10.1016/j.kint.2020.09.012
11. Singh P, Viehman JK, Mehta RA, Cogal AG, Hasadsri L, Oglesbee D, Olson JB, Seide BM, Sas DJ, Harris PC, Lieske JC, Milliner DS. Clinical characterization of primary hyperoxaluria type 3 in comparison to types 1 and 2: a retrospective cohort study. Nephrol Dial Transplant. 2021 Feb 5 Epub 2021 Feb 05 PMID: 33543760 DOI: 10.1093/ndt/gfab027
12. Singh P, Razonable RR, Lorenz EC, DiCaudo DJ, Sukov WR, Bridges AG, Alkhateeb HB, Hogan WJ, Klonjic N, Thirunavukkarasu S, Amer H, Kudva YC, Khamash H, Stegall M, Kukla A. Chronic graft-versus-host disease in pancreas after kidney transplant recipients - An unrecognized entity. Am J Transplant. 2021 Feb; 21 (2):883-888 Epub 2020 Sept 20 PMID: 32805087 PMCID: 7870559 DOI: 10.1111/ajt.16273
13. Singh P, Bentall AJ, Langstraat CL, Swanson AA, Deziel PJ, Huang Y, Razonable RR. A rare manifestation of CMV disease in a kidney transplant recipient. Transpl Infect Dis. 2020 Nov 25; e13527 [Epub ahead of print] PMID: 33237608 DOI: 10.1111/tid.13527
14. Singh Prince, Bentall Andrew, Erickson SB. CT Scan Surprise in a Potential Kidney Donor Kidney 360. 2020. DOI: <https://doi.org/10.34067/KID.0000662020>
15. Singh P, Chebib FT, Cogal AG, Gavrilo DK, Harris PC, Lieske JC. Pyridoxine Responsiveness in a Type 1 Primary Hyperoxaluria Patient With a Rare (Atypical) AGXT Gene Mutation. Kidney Int Rep. 2020 Jun; 5 (6):955-958 Epub 2020 Apr 13 PMID: 32518881 PMCID: 7270974 DOI: 10.1016/j.ekir.2020.04.004
16. Singh Prince, Manohar Sandhya Manohar, Erickson Stephen Erickson. Abdominal Pain in a Patient with Hypercalcemia Kidney360. 2020.
17. Chen Q, Du Y, Prince S, Zhang P, Li G, Wang L, Wang W. Primary thymic mucosa-associated lymphoid tissue lymphoma complicated with renal amyloidosis: A first case report. Medicine (Baltimore). 2020 Mar; 99 (13):e19462 PMID: 32221068 PMCID: 7220216 DOI: 10.1097/MD.00000000000019462
18. Cunha BA, Elyasi M, Singh P, Jimada I. Lyme carditis with isolated left bundle branch block and myocarditis successfully treated with oral doxycycline. IDCases. 2017 Dec 16;11:48-50.doi:10.1016/j.idcr.2017.12.006. PMID: 29326870 PMCID: PMC5760251
19. Denic A, Lieske JC, Chakker A, Poggio ED, Alexander MP, Singh P, Kremers WK, Lerman LO, Rule AD. The Substantial Loss of Nephrons in Healthy Human Kidneys with Aging. J Am Soc Nephrol. 2017 Jan; 28 (1):313-320 Epub 2016 July 08 PMID: 27401688 PMCID: 5198286 DOI: 10.1681/ASN.2016020154

20. Singh P, Enders FT, Vaughan LE, Bergstralh EJ, Knoedler JJ, Krambeck AE, Lieske JC, Rule AD. Stone Composition Among First-Time Symptomatic Kidney Stone Formers in the Community. *Mayo Clin Proc.* 2015 Oct; 90 (10):1356-65 Epub 2015 Sept 06 PMID: 26349951 PMCID: 4593754 DOI: 10.1016/j.mayocp.2015.07.016
21. Singh P, Knoedler JJ, Krambeck AE, Lieske JC, Bergstralh EJ, Rule AD. Thiazide diuretic prophylaxis for kidney stones and the risk of diabetes mellitus. *J Urol.* 2014 Dec; 192 (6):1700-4 Epub 2014 June 30 PMID: 24992333 PMCID: 4252655 DOI: 10.1016/j.juro.2014.06.078

Conferences and Presentations

Oral Presentations

1. Risk Assessment of Rejection in Kidney Transplant Recipients: Mechanisms, Methods, and Implications-Transplant Grand Rounds, Duke University, 6/10/2022.
2. Infections in Kidney Transplant Recipients, Core-Curriculum Lecture, Duke University, 01/19/2022.
3. Opioids Use in Dialysis Patients, Morbidity and Mortality Conference- Internal Medicine, Mayo Clinic, Rochester, Minnesota, 5/24/2021.
4. Microcystic kidney disease related to long term lithium use, Nephrology and Transplantation for the Clinician 2020: 18th Annual Update from Mayo Clinic, Phoenix, Arizona, 2/21/2020.
5. Phenotypic expression of primary hyperoxaluria: Comparative features of types 1,2 and 3, Mayo Clinic- Nephrology & Hypertension Grand Rounds, Rochester, Minnesota, 10/15/2019.
6. Posttransplant lymphoproliferative disorder in a kidney transplant recipient management of immunosuppression, American Society of Transplantation-Fellows Symposium 2019, Dallas Fort Worth, TX, 9/27/2019.
7. Primary Hyperoxaluria Type 3: Clinical characteristics. Comparison with PH Types 1 and 2, Oxalosis and Hyperoxaluria Foundation, Harvard Medical School, Boston, Massachusetts, 6/25/2019.
8. Risk of clinical care for a kidney stone event increases with number of prior stone events: a Rochester Epidemiology Project, Mayo Clinic Nephrology and Hypertension Grand Rounds Mayo Clinic, Rochester, Minnesota, 11/1/2014.

Poster Presentations

1. Pelvic kidney in a potential kidney donor, National Kidney Foundation- 2020 Spring Clinical Meetings New Orleans, Louisiana, 3/25/2020.
2. Microcystic Kidney Disease Related to Long-term Lithium Use, 2020 International Medical Conference on Dialysis, Los Angeles, Maryland, 1/20/2020.
3. Phenotypic expression of primary hyperoxaluria: Comparative features of types 1,2 and 3, ASN 2019, 11/7/2019.
4. Clinical and Biochemical Features in Primary Hyperoxaluria Type 3, ASN 2014, 11/16/2014.
5. Comparison of chronic kidney disease markers between incident symptomatic stone formers and controls, ASN 2014, 11/11/2014.
6. Renovascular Hypertension due to an Unusual Cause of Renal Artery External Compression, ASN 2014, 11/11/2014.
7. Risk of clinical care for a kidney stone event increases with number of prior stone events: a Rochester Epidemiology Project study, ASN 2014, 11/11/2014.