Short Bio

Dr. Archan Sil has completed his 3-year post-doctoral fellowship in **Pediatric Clinical Immunology and Rheumatology** from the Post Graduate Institute of Medical Education and Research (PGIMER), Chandigarh this year. He is a proud graduate of pediatrics from the oldest Medical College of Asia, Medical College, Kolkata. He was inspired to delve into immunology when he was first exposed to the overwhelming number of "rare" primary immunodeficiency cases admitted within one in-patient ward in his hospital. The realisation that PIDs are in-fact not rare, and that there are millions of patients in India waiting to be screened, diagnosed and managed for their primary immunodeficiencies keeps him motivated to pursue the field.

Even though he enjoys evaluating and managing patients of all types of inborn errors of immunity, his passion lies in antibody deficiencies [Common variable immunodeficiency (CVID)], DOCK8 deficiency, chronic granulomatous disease and C1-INH deficiency (hereditary angioedema). His dissertation was on 'Evaluation of Cytokine profile in children with CVID'. He has multiple publications on primary immunodeficiencies in peer reviewed international journals. (List is attached below) He was selected for ESID PID Care in Development (PID CD) school at Split, Croatia (14^{th}-16^{th} September, 2023), received travel grant award of 500 euros and presented an interesting case on 'A child with recurrent sinopulmonary infections, skin infection and thrombocytopenia'. He is an active member of the HAESI, PReS, APSID and the ESID society and has been involved in outreach programs, guideline development and physician and nursing education in India. He regularly attends national conferences, international conferences and summer schools related to inborn errors of immunities. After the completion of his tenure, he intends to continue to spread the awareness of inborn errors of immunity in India, and try his best to provide accessible and affordable care to the patients.

Publication List

1. Sil A, Basu S, Joshi V, Pilania RK, Siniah S, Suri D, Rawat A, Singh S. Immunoglobulin replacement therapies in inborn errors of immunity: a review. Front Pediatr. 2024 Feb 15;12:1368755. doi: 10.3389/fped.2024.1368755.

2. Sil A, Thangaraj A, Patro D, Bathia JN, Rao AP, Pal P, Vignesh P, Rawat A. Early Onset Polyarthritis: An Unusual Presentation of MHC Class II Deficiency. Rheumatology (Oxford). 2024 Feb 9:keae102. doi: 10.1093/rheumatology/keae102.

3. Machhua S, Kumar Jindal A, Basu S, Jangra I, Barman P, Tyagi R, **Sil A**, Tyagi R, Kaur A, Chawla S, Kumaran SM, Dogra S, Dhaliwal M, Sharma S, Rawat A, Singh S. Transmission patterns of C1-INH deficiency hereditary angioedema favors a wild-type male offspring: Our experience at Chandigarh, India. Immunobiology. 2024 Mar;229(2):152790. doi: 10.1016/j.imbio.2024.152790.
4. Jindal AK, Mondal S, **Sil A**, Rawat A, Chawla S, Tyagi R, Sudhakar M, Banday AZ, Suri D, Vignesh P, Dhaliwal M, Sharma S, Rikhi R, Saka R, Sharma R, Chatterjee D, Sreedharanunni S, Uppuluri R, Raj R, Singh S. X-Linked Lymphoproliferative Syndrome: A Spectrum of Clinical and Immunological Profile and Novel Pathogenic Variants from Chandigarh, India. Int Arch Allergy Immunol. 2024 Jan 9:1-12. doi: 10.1159/000531296.
5. Basu S, **Sil A**, Jindal AK, Tyagi R, Arafath MY, Vyas S, Rawat A. A young boy with rash, arthritis, and developmental delay: Monogenic lupus due to DNASE2 gene defect. Int J Rheum Dis. 2023 Dec;26(12):2599-2602. doi: 10.1111/1756-185X.14826.
6. Jindal AK, Basu S, Tyagi R, Barman P, **Sil A**, Chawla S, Kaur A, Tyagi R, Jangra I, Machhua S, Kumaran MS, Dogra S, Vinay K, Bishnoi A, Sharma R, Garg R, Saka R, Suri D, Pandiarajan V, Pilania R, Dhaliwal M, Sharma S, Rawat A, Singh S. Delays in diagnosis is the commonest proximate reason for mortality in hereditary angioedema: our experience at Chandigarh, India. Clin Exp Dermatol. 2023 Dec 1:llad428. doi: 10.1093/ced/llad428.
7. Jindal AK, **Sil A**, Aggarwal R, Tyagi R, Mondal S, Singh A, Barman P, Chawla S, Loganathan SK, Gupta K, Vinay K, Mahajan R, Saikia B, Kaur G, Sharma R, Saka R, Bhatia A, Sankhyan N, Pandiarajan V, Pilania R, Dhaliwal M, Sharma S, Vyas S, Suri D, Rawat A, Singh S. Clinical spectrum of DOCK8 deficiency from a tertiary care center in North India. Clin Exp Dermatol. 2023 Oct 10:llad345. doi: 10.1093/ced/llad345.
8. Jindal AK, Chiang V, Barman P, **Sil A**, Chawla S, Au EYL, Rawat A, Li PH. Screening for type II hereditary angioedema-the "poor man's c1-inhibitor function". J Allergy Clin Immunol Glob. 2023 Oct 13;3(1):100179. doi: 10.1016/j.jacig.2023.100179.
9. Sil A, Basu S, Das J, Sethi S, Chatterjee D, Vignesh P, Suri D, Jindal AK. Disseminated Mycobacterium fortuitum infection in a young girl with IFN-γR1 defect masquerading as histiocytosis. Pediatr Allergy Immunol. 2023 Sep;34(9):e14027. doi: 10.1111/pai.14027.
10. Vignesh P, **Sil A**, Aggarwal R, Laha W, Mondal S, Dhaliwal M, Sharma S, Pilania RK, Jindal AK, Suri D, Sethi S, Rawat A, Singh S. Tuberculosis and Bacillus Calmette-Guérin Disease in Patients with Chronic Granulomatous Disease: an Experience from a Tertiary Care Center in North India. J Clin Immunol. 2023 Nov;43(8):2049-2061. doi: 10.1007/s10875-023-01581-w.

11. Jindal AK, **Sil A**, Aggarwal R, Vinay K, Bishnoi A, Suri D, Rawat A, Kumaran MS, Saikia B, Sarkar R, Gupta L, Kumar DD, Jindal R, Sukumaran TU, Ouseph J, Longhurst H, Pawankar R, Singh S, Dogra S. Management of hereditary angioedema in resource-constrained settings: A consensus statement from Indian subcontinent. Asia Pac Allergy. 2023 Jun;13(2):60-65. doi: 10.5415/apallergy.0000000000000100.

12. Sil A, Aggarwal R, S S, Sharma S, Vignesh P, Rawat A. Healing With Complication: An Unusual Case of Nasal Tip Ulceration in Leukocyte Adhesion Deficiency Type 1. J Allergy Clin Immunol Pract. 2022 Sep;10(9):2448-2449. doi: 10.1016/j.jaip.2022.06.019.

13. Dev A, **Sil A**, Jindal AK, Tyagi R, Rawat A, Vinay K. Cutaneous involvement in DOCK8-related immunodeficiency syndrome responding to thalidomide. Dermatol Ther. 2022 Apr 5:e15491.

14. Sil A, Jindal AK. Review article on 'Hereditary Angioedema'. Indian J. Pract. Pediatr. August 2021: 231-33.

15. Sekar A, Gupta K, Rawat A, Jindal A, Pandiarajan V, Suri D, Gupta A, Kaur G, Kumar I, Gummadi A, **Sil A**, Singh S. Utility of Immunohistochemistry and Immunofluorescence in Determining the Pathogenic Variants of Chronic Granulomatous Disease. J Clin Immunol. 2022 Jan;42(1):85-93.

Book Chapters

1. Sunil Dogra, Ankur Kumar Jindal, Anuradha Bishnoi, **Archan Sil**, Abarna Thangaraj. Herediatary Angioedema. Publisher: Hereditary Angioedema Society of India.

2. Rakesh Kumar Pilania, **Archan Sil**. IRACON 2023 Rheumatology Update. Chapter on Approach to Primary Immunodeficiency Disorders. Publisher: Indian Rheumatology Association.