

MHRD Scheme on Global Initiative on Academic Network (GIAN)

Kawasaki disease: From Bench to Bedside

1.0 Overview:

Kawasaki disease (KD) is a medium vessel vasculitis with predilection for coronary arteries and has been recognized to be the most common cause of acquired heart disease in developed countries. KD is now being increasingly reported in several developing countries including India and has become the most common vasculitis overall surpassing Henoch Schonlein purpura (IgA vasculitis). As the incidence of rheumatic fever in India has shown a decreasing trend, KD is likely to become the most common cause of acquired heart disease. KD is often seen in young children. The estimated incidence of KD in Chandigarh is 5 per 100,000 children less than 5 and the incidence has shown an increasing trend over last 10 years. However, there are no data on nationwide incidence rates of KD.

Patients with KD often present with fever, changes in extremities (erythema of palms, soles; edema of hands and feet, periungual peeling of fingers and toes), polymorphous exanthema (diffuse maculopapular, urticarial, erythroderma, erythema-multiforme like, not vesicular or bullous), bilateral bulbar conjunctival injection without exudates, changes in lips and oral cavity (erythema, lips cracking, strawberry tongue, diffuse injection of oral and pharyngeal mucosae) and cervical lymphadenopathy (>1.5 cm diameter), usually unilateral. Even though more than 50 years have passed since the first case of KD was identified by Dr Tomisaku Kawasaki, the diagnosis of KD continues to remain a clinical dilemma and there are no confirmatory laboratory tests.

Coronary artery aneurysms are the hallmark complications in KD and may develop in up to 25% of untreated patients. The risk of developing coronary artery aneurysms is as high as 60% in infants. Patients who develop coronary artery complications are at risk of cardiovascular events (such as myocardial infarction) early in life. With increase in the incidence of KD in India, proportion of individuals who are at risk of developing cardiovascular events are likely to increase in near future.

Postgraduate Institute of Medical Education and Research, Chandigarh, India is a tertiary care referral institute in North India. Our institute is the only centre in the country where a formal 3-

year training course (DM) in Pediatric Clinical Immunology and Rheumatology is being offered. This training programme started in the year 2014. Till date, 10 fellows have passed this training programme and are working in different parts of the country.

We have the largest cohort of patients with Kawasaki disease in India. Dr Tomisaku Kawasaki himself visited our institute. Our unit also has the largest number of publications on Kawasaki disease in India.

2.0 Objectives:

The major objective of the course is to discuss the following topics in details:

1. Clinical manifestations and diagnosis of Kawasaki disease.
2. Recent advances in the techniques for diagnostic evaluation of Kawasaki disease.
3. Current state of innovative research on Kawasaki disease in India and its future implications
4. How can we improve the research work on Kawasaki disease in India?
5. Recent advances in the management of acute stage of Kawasaki disease including role of biologic therapy and immunomodulatory therapy.
6. Long term management of Kawasaki disease including the role of CT angiography and MRI.

3.0 Teaching Faculty with allotment of Lectures and Tutorials

1. Prof. Hiromichi Hamada (HH): 12 hrs lectures and 8 hrs tutorials
2. Prof. Surjit Singh (SS): 4 hrs lectures and 3 hrs tutorials
3. Dr. Ankur Jindal (AJ): 2 hrs lectures and 1 hr tutorial

4.0 Course Details

4.1 Tentative Duration: October 4-8, 2023

18 hrs of lectures and 12 hrs of Tutorials

4.2 Tentative Lecture Schedule

| | |
|--------------|---|
| Day-1 | 09:00-10:00: Opening Session Lecture 1: 10:00-11:00: Kawasaki disease: A journey over last 50 years in Japan: <i>Hiromichi Hamada</i> Lecture 2: 11:00-12:00: Kawasaki disease: A journey over last 25 years in India: <i>Surjit Singh</i> Lecture 3: 12:00-13:00: Epidemiology of Kawasaki disease in the world: <i>Hiromichi Hamada</i> 13:00-14:00: Lunch time |
|--------------|---|

| | |
|--------------|--|
| | <p>Lecture 4: 14:00-15:00: Epidemiology of Kawasaki disease in India: Where do we stand in the Circa 2020? <i>Ankur Jindal</i></p> <p>Tutorial 1: 15:00-17:00: Pathology of Kawasaki disease: How can we utilize this knowledge in improving the patient care? <i>Hiromichi Hamada</i></p> |
| Day-2 | <p>Lecture 5: 09:00-10:00: Etiology of Kawasaki disease: Where do we stand in the Circa 2020? <i>Hiromichi Hamada</i></p> <p>Lecture 6: 10:00-11:00: Insights into the pathogenesis of Kawasaki disease: <i>Surjit Singh</i></p> <p>Lecture 7: 11:00-12:00: Is genetics the main driving force behind Kawasaki disease? <i>Hiromichi Hamada</i></p> <p>Tutorial 2: 12:00-13:00: How to improve the scientific writing? <i>Hiromichi Hamada</i></p> <p>13:00-14:00: Lunch time</p> <p>Lecture 8: 14:00-15:00: Clinical manifestations of Kawasaki disease: all that a pediatrician should know: <i>Hiromichi Hamada</i></p> <p>Tutorial 3: 15:00-17:00: My most difficult cases of Kawasaki disease: <i>Surjit Singh/ Ankur Jindal</i></p> |
| Day-3 | <p>Lecture 9: 09:00-10:00: Kawasaki disease at extremes of age: the spectrum of this mysterious disease: <i>Ankur Jindal</i></p> <p>Lecture 10: 10:00-11:00: Coronary artery complications in Kawasaki disease: <i>Hiromichi Hamada</i></p> <p>Lecture 11: 11:00-12:00: non-coronary artery cardiac complications in Kawasaki disease: Expanding the spectrum of complications beyond coronary arteritis: <i>Hiromichi Hamada</i></p> <p>Tutorial 4: 12:00-13:00: Innovative research and future clinical trials in Kawasaki disease: <i>Hiromichi Hamada</i></p> <p>13:00-14:00: Lunch time</p> <p>Lecture 12: 14:00-15:00: Role of CT angiography in Kawasaki disease: Is CT a game changer? <i>Surjit Singh</i></p> <p>Tutorial 5: 15:00-17:00: Evolution of diagnostic criteria for Kawasaki disease: Are we on the right track? <i>Hiromichi Hamada</i></p> |
| Day-4 | <p>Lecture 13: 10:00-11:00: Management in the acute stage of Kawasaki disease: <i>Hiromichi Hamada</i></p> <p>Lecture 14: 11:00-12:00: Recent updates in the management of acute stage of Kawasaki disease: the Japanese experience: <i>Hiromichi Hamada</i></p> <p>Lecture 15: 12:00-13:00: Long term complications of Kawasaki disease: Do we know enough or there is more to learn? <i>Surjit Singh</i></p> <p>13:00-14:00: Lunch time</p> <p>Lecture 16: 14:00-15:00: Long term management of Kawasaki disease: Role of anticoagulation, statins and surgical interventions: <i>Hiromichi Hamada</i></p> <p>Tutorial 6: 15:00-17:00: Current state of affairs on research in Kawasaki disease at PGIMER, Chandigarh and how can we improve ourselves: <i>Surjit Singh</i></p> |
| Day-5 | <p>Lecture 17: 10:00-11:00: Kawasaki disease complicated with shock / carditis ("Kawasaki disease shock syndrome): <i>Hiromichi Hamada</i></p> <p>Lecture 18: 11:00-13:00: Case studies for Long-term complicated cases with coronary artery abnormalities: <i>Hiromichi Hamada</i></p> <p>13:00-14:00: Lunch time</p> <p>Tutorial 7: 14:00-16:00: Echo techniques for coronary arteries in children: Hands-on: <i>Hiromichi Hamada</i></p> |

Date of Examination: October 8, 2023

5.0 Who can Attend?

- Under graduate medical students
- Post graduate medical students
- Postdoctoral Fellows (pediatric rheumatology or infectious diseases)
- Research Scholars

- Practicing physicians (both government and private sectors)
- Scientific staff working in life sciences, biotechnology, biomedical and pharmaceutical industry, and professional labs working in these areas in the public and private sectors.

To obtain maximum benefit from this course, a fundamental background in medicine, pediatrics, immunology, rheumatology, infectious diseases or bioinformatics will be beneficial.

6.0 Detailed CV of Experts

CV of Dr Hiromichi Hamada

Hiromichi Hamada
MD, PhD

CURRICULUM VITAE



BIOGRAPHICAL INFORMATION

Address

Office-- Department of Pediatrics
Tokyo Women's Medical University Yachiyo Medical Center
477-91, Owada-shinden, Yachiyo
Chiba, 2768524
Ph +81(47) 450-6000 FAX +81(47)458-7047
Email: hiromichi.hamada@gmail.com

Education

High School - - Shimizu Higashi, Shizuoka, Japan 1979-1982

Medical School - - Chiba University School of Medicine 1984-1990
awarded MD Degree by ministry of Health, Labor and welfare Japan
, May 22, 1990.

Postgraduate Training

1990-92 Junior Rotating Internship
Chiba University Hospital, Chiba, Japan

1992-94 Resident, Pediatrics
Department of Pediatrics, Chiba University Hospital, Chiba,
Japan

1994-98 Resident, Pediatric Cardiology

Division of Cardiology, Chiba Children's hospital, Chiba,
Japan, April 1, 1994 to Mar 31, 1995
Department of Pediatrics, Chiba University Hospital, Chiba,
Japan, April 1, 1995 to Mar 31, 1997
Division of Cardiology, Chiba Cardiovascular center, Ichihara,
Japan, April 1, 1997 to Mar 31, 1998

1997-2000 Doctor of Medical Science

Chiba Graduate School of Medicine, Chiba, Japan, awarded
PhD Degree May 9, 2000

2001-04 Postdoctoral Fellow, Cell biology

Developmental biology, Chiba Graduate School of Medicine,
Chiba, Japan,

2004-06 Postdoctoral Fellow, Vascular biology

Cardiovascular Research, St. Elizabeth Medical Center of
Boston, Tufts University April 1, 2004 to September 14, 2006

Positions Held / Employment

2006 Faculty of Medicine, Tufts University

Cardiovascular Research, St. Elizabeth Medical Center of
Boston,
September 16, 2006 to December 31, 2006

2007-13 Faculty of Medicine, Tokyo Women's Medical University

Department of Pediatrics, Tokyo Women's Medical University
Yachiyo Medical Center
January 1, 2007 to March 31, 2013

**2013-14 Associate professor of Pediatrics, Tokyo Women's Medical
University Yachiyo Medical Center**

April 1, 2013 to December 31, 2014

**2015-2019 Director of Pediatrics, and clinical professor of Tokyo Women's Medical
University Yachiyo Medical Center,**

**Feb,2019- Professor of Tokyo Women's Medical University Yachiyo Present Medical
Center,**

Honors

**2006 American Heart Association (AHA) Melvin L. Marcus Young
Investigator Awards in cardiovascular science finalist**

2007 Japan Pediatric Society Chiba Nakajima Award

2008 Japan Society of pediatric infectious disease research award

Professional Affiliations and Activities

Japanese Board of Pediatrics
Certificate awarded April 1, 2004

Japanese Board of Pediatrics -- Pediatric Cardiology Sub-Board
Certificate awarded April 11, 2011

Japanese Board of Infectious disease
Certificate awarded Jan 1, 2017

Infection control doctor
Certificate awarded Jan 1, 2018

American Heart Association
Member on CV Disease in the Young 2001-present
Member on Basic Cardiovascular Science 2005-present
Fellow of AHA (FAHA) 2013-present

International Society of Adult Congenital Cardiac Diseases (ISACCD)

Japanese Pediatric Society 1990-present
Council of pediatric emergency care committee 2018-present

Japanese Pediatric cardiology and cardiovascular surgery 1992-present
Council/ steering committee 2010-present

Japanese society of Kawasaki disease 1995-present
Council/ steering committee 2012-present

Japanese society of emergency pediatrics
Council/ steering committee 2015-present

Professional Society Administrative Committees

2013-14, 2017-18 Member of Working group in Japanese Society of Pediatrics,
“Developing Registry system for pediatric critically ill children in Japan”

2018- Member of the committee for new diagnostic guidelines for Kawasaki disease

2018- Member of the committee in Japanese society of circulation for new treatment guidelines
for Kawasaki disease patients with coronary artery complications

National Meeting Organization Committees

2014 Chairperson, 17th Molecular research meeting on pediatric cardiology field,

Okayama, Japan

2014 Secretary, 34th Annual meeting of Japanese society of Kawasaki disease,
Tokyo, Japan

2018 Chairperson, 1st meeting of Asian Kawasaki disease clinical research network

Social activities

2009-present Steering committee of hospitals and clinics association in pediatrics, Chiba
prefecture

2010-present Member of Parents-patients association for Kawasaki disease

2010-present Member of Parents-patients association for congenital heart disease

Research Awards/ Grant Funding

Principal Investigator-“Vascular regeneration by Chemokine receptor blockers” Grant of The
Mother and Child Health Foundation, Japan;2007

Principal Investigator-“Clinical features of Human Bocavirus respiratory infection in young
children” Young investigator grant of Japanese Society for Pediatric Infectious Diseases, Japan ;
2008

Principal Investigator-“Etiology and Pathogenesis of newly founded human respiratory viruses in
young children” Chiba Serum Institute Memorial Fund, Japan 1; 2009-2011

Co-principal Investigator-“Investigation of Etiologic microbe for Kawasaki disease” Grant of
Kawasaki disease research center Japan, 2008-2009, 2011

Co-principal Investigator-“Pathogenesis of newly identified *staphylococcus* cultured from stool
of patients with Kawasaki disease” Grant of Kawasaki disease research center Japan, 2012

Principal Investigator-, “Clinical trial of Cyclosporine for Kawasaki disease” Clinical study
approved by Pharmaceuticals and Medical Devices Agency and granted from Japan Medical
society. ; 2014-2016.

Principal Investigator-, “CD69-Myl9 system in Kawasaki disease” Grant-in-aid for Scientific
research, Japan.

PUBLICATIONS (Peer review papers in international journals)

*Equally contribution ** Correspondent Author

1. Niwa K, Aotsuka H, Hamada H, Uchishiba M, Terai M, Niimi H.(1995)
Thrombocytopenia: a risk factor for acute myocardial infarction during the acute phase of
Kawasaki disease. Coron Artery Dis. 6,857-864.
2. Niwa K, Uchishiba M, Aotsuka H, Tobita K, Matsuo K, Fujiwara T, Tateno S, Hamada

- H.(1996) Measurement of ventricular volumes by cine magnetic resonance imaging in complex congenital heart disease with morphologically abnormal ventricles. *Am Heart J.* 131: 567-575.
3. Aotsuka H, Tobita K, Hamada H, Uchishiba M, Tateno S, Matsuo K, Fujiwara T, Niwa K.(1996) Validation of the proximal isovelocity surface area method for assessing mitral regurgitation in children. *Pediatr Cardiol.*17,351-359.
 4. Hamada H, Terai M, Okajima Y, Niimi H. (1997) Angiographical and computed tomographic findings in diffuse pulmonary arteriovenous fistulas. *Int J Cardiol.*59,203-205.
 5. Terai M, Jibiki T, Harada A, Terashima Y, Yasukawa K, Tateno S, Hamada H, Oana S, Niimi H, Matsushima K.(1999) Dramatic decrease of circulating levels of monocyte chemoattractant protein-1 in Kawasaki disease after gamma globulin treatment. *J Leukoc Biol.*65,566-572.
 6. Ichida F, Hamamichi Y, Miyawaki T, Ono Y, Kamiya T, Akagi T, Hamada H, Hirose O, Isobe T, Yamada K, Kurotobi S, Mito H, Miyake T, Murakami Y, Nishi T, Shinohara M, Seguchi M, Tashiro S, Tomimatsu H.(1999) Clinical features of isolated noncompaction of the ventricular myocardium: long-term clinical course, hemodynamic properties, and genetic background. *J Am Coll Cardiol.*34,233-240.
 7. Hamada H, Terai M, Kimura H, Hirano K, Oana S, Niimi H.(1999) Increased expression of mast cell chymase in the lungs of patients with congenital heart disease associated with early pulmonary vascular disease. *Am J Respir Crit Care Med.* 160, 1303-1308.
 8. Tateno S, Terai M, Niwa K, Jibiki T, Hamada H, Yasukawa K, Honda T, Oana S, Kohno Y.(2001) Alleviation of myocardial ischemia after Kawasaki disease by heparin and exercise therapy. *Circulation.* 103,2591-2597.
 9. Jibiki T, Terai M, Shima M, Ogawa A, Hamada H, Kanazawa M, Yamamoto S, Oana S, Kohno Y.(2001) Monocyte chemoattractant protein 1 gene regulatory region polymorphism and serum levels of monocyte chemoattractant protein 1 in Japanese patients with Kawasaki disease. *Arthritis Rheum.* 44, 2211-2212.
 10. Terai M, Niwa K, Nakazawa M, Tatsuno K, Segami K, Hamada H, Kohno Y, Oki I, Nakamura Y. (2002) Mortality from congenital cardiovascular malformations in Japan, 1968 through 1997.*Circ J.*66,484-488.
 11. Hamada H, Terai M, Jibiki T, Nakamura T, Gatzoulis MA, Niwa K.(2002) Influence of early repair of tetralogy of fallot without an outflow patch on late arrhythmias and sudden death: a 27-year follow-up study following a uniform surgical approach. *Cardiol Young.* 12,345-351.
 12. Niwa K, Hamada H, Nakazawa M, Terai M, Tateno S, Sugimoto S, Watanabe H, Murakami A, Ohta M, Ishizawa A, Katoki T, Mori K, Yasui S, Kawahira Y, Akagi T, Haraguchi N, Gatzoulis MA (2002). Mortality and risk factors for late deaths in Tetralogy of Fallot -the Japanese Nationwide Multicenter Survey-. *Cardiol Young.* 12,453-460.
 13. Terai M, Honda T, Yasukawa K, Higashi K, Hamada H, Kohno Y.(2003) Prognostic impact of vascular leakage in acute Kawasaki Disease. *Circulation.* 108: 325-330.
 14. Yamamoto K*, Hamada H*, Shinkai H, Kohno Y, Koseki H, Aoe T.(2003) The KDEL receptor modulates the endoplasmic reticulum stress response through MAP kinase signaling cascades. *J Biol Chem.*278,34525-34532. (*equally contribution)
 15. Yagi H, Furutani Y, Hamada H, Sasaki T, Asakawa S, Minoshima S, Ichida F, Joo K, Kimura M, Imamura S, Kamatani N, Momma K, Takao A, Nakazawa M, Shimizu N, Matsuoka R.(2003) Role of TBX1 in human del22q11.2 syndrome. *Lancet.* 362: 1366-1373.
 16. Jibiki T, Terai M, Kurosaki T, Nakajima H, Suzuki K, Inomata H, Terashima I, Honda T,

Yasukawa K, Hamada H, Kohno Y.(2004) Efficacy of intravenous immune globulin therapy combined with dexamethasone for the initial treatment of acute Kawasaki disease. Eur J Pediatr. 163,229-233.

17. Hamada H, Suzuki M, Yuasa S, Mimura N, Shinozuka N, Takada Y, Suzuki M, Nishino T, Nakaya H, Koseki H, Aoe T.(2004) Dilated cardiomyopathy caused by aberrant ER quality control in mutant KDEL receptor transgenic mice. Mol Cell Biol. 24, 8007-8017.
18. Iwakura A, Dean J, Hamada H, Eaton E, Qin G, Losordo DW, Aikawa R.(2005) Use of recombinant adeno-associated viral vectors as a tool for labeling bone marrow cells. J Mol Cell Cardiol. 38:799-802.
19. Kusano KF, Pola R, Murayama T, Curry C, Kawamoto A, Iwakura A, Shintani S, Ii M, Asai J, Tkebuchava T, Thorne T, Takenaka H, Aikawa R, Goukassian D, von Samson P, Hamada H, Yoon YS, Silver M, Eaton E, Ma H, Heyd L, Kearney M, Munger W, Porter JA, Kishore R, Losordo DW. (2005) Sonic hedgehog myocardial gene therapy: tissue repair through transient reconstitution of embryonic signaling. Nat Med.11, 1197-1204.
20. Iwakura A, Shastry S, Luedemann C, Hamada H, Kawamoto A, Kishore R, Zhu Y, Qin G, Silver M, Thorne T, Eaton L, Masuda H, Asahara T, Losordo DW. (2006) Estradiol enhances recovery after myocardial infarction by augmenting incorporation of bone marrow–derived endothelial progenitor cells into sites of ischemia-induced neovascularization via endothelial nitric oxide synthase–mediated activation of matrix metalloproteinase-9. Circulation. 113,1605-1614.
21. Asai J, Takenaka H, Kusano KF, Ii M, Luedemann C, Curry C, Eaton E, Iwakura A, Tsutsumi Y, Hamada H, Kishimoto S, Thorne T, Kishore R, Losordo DW. (2006) Topical sonic hedgehog gene therapy accelerates wound healing in diabetes by enhancing endothelial progenitor cell mediated microvascular remodeling. Circulation. 113,2413-2424.
22. Rajasingh J, Bord E, Luedemann C, Asai J, Hamada H, Thorne T, Qin G, Goukassian D, Zhu Y, Losordo DW, Kishore R. (2006) IL-10-induced TNF-alpha mRNA Destabilization is Mediated via IL-10 Suppression of p38 MAP Kinase Activation and Inhibition of HuR Expression. FASEB J. 20,2112-2114.
23. Hamada H, Kim MK, Iwakura A, Ii M, Thorne T, Qin G, Asai J, Tsutsumi Y, Sekiguchi H, Silver M, Wecker A, Bord E, Zhu Y, Kishore R, Losordo DW. (2006) Estrogen receptors alpha and beta mediate contribution of bone marrow-derived endothelial progenitor cells to functional recovery following myocardial infarction. Circulation. 114,2261-2270.
24. Higashi K, Terai M, Hamada H, Honda T, Kanazawa M, Kohno Y. (2007) Impairment of angiogenic activity in the serum from patients with coronary aneurysms due to Kawasaki disease. Circ J. 71,1052-1059.
25. Mimura N, Hamada H, Kashio M, Jin H, Toyama Y, Kimura K, Iida M, Goto S, Saisho H, Toshimori K, Koseki H, Aoe T.(2007) Aberrant quality control in the endoplasmic reticulum impairs the biosynthesis of pulmonary surfactant in mice expressing mutant BiP. Cell Death and Differentiation. 14,1475-1485.
26. Hamada H, Ebata R, Higashi K, Tateno S, Niwa K, Honda T, Yasukawa K, Terai M. (2007) Serum vascular endothelial growth factor in cyanotic congenital heart disease functionally contributes to endothelial cell kinetics *in vitro*. Int J Cardiol. 120:66-71.
27. Rajasingh J, Bord E, Qin G, Ii M, Silver M, Hamada H, Ahluwalia D, Goukassian D, Zhu Y, Losordo DW, Kishore R. (2007) Enhanced Voluntary Alcohol Consumption Following Estrogen Supplementation Negates Estrogen- mediated Vascular Repair in Ovariectomized Mice. Endocrinology. 148:3618-3624.

28. Rajasingh J, Bord E, Hamada H, Lambers E, Qin G, Losordo DW, Kishore R. (2007) STAT3-Dependent Mouse Embryonic Stem Cell Differentiation Into Cardiomyocytes. Analysis of Molecular Signaling and Therapeutic Efficacy of Cardiomyocyte Precommitted mES Transplantation in a Mouse Model of Myocardial Infarction. *Circ Res.* 101,910-918.
29. Rajasingh J, Lambers E, Hamada H, Bord E, Thorne T, Goukassian I, Krishnamurthy P, Rosen KM, Ahluwalia D, Zhu Y, Qin G, Losordo DW, Kishore R. (2008) Cell-Free Embryonic Stem Cell Extract-Mediated Derivation of Multipotent Stem Cells From NIH3T3 Fibroblasts for Functional and Anatomical Ischemic Tissue Repair. *Circ Res.* 102,e107-17.
30. Moriyama M, Hamada H, Okada M, Tsuchiya N, Maru H, Shirato Y, Maeda Y, Hirose Y, Yoshida M, Omura Y, Honda T, Muto A, Hayashi K, Terai M. (2010) Distinctive clinical features of human bocavirus in children younger than 2 years. *Eur J Pediatr.* 169,1087-1092.
31. Jujo K*, Hamada H*, Iwakura A*, Thorne T, Sekiguchi H, Clarke T, Ito A, Misener S, Tanaka T, Klyachko E, Kobayashi K, Tongers J, Roncalli J, Tsurumi Y, Hagiwara N, Losordo DW. CXCR4 blockade augments bone-marrow progenitor-cell recruitment to the neovasculature and reduces mortality after myocardial infarction. *Proc Natl Acad Sci U S A.* 107,11008-11013. (*equally contribution)
32. Onouchi Y, Ozaki K, Burns JC, Shimizu C, Hamada H, Honda T, Terai M, Honda A, Takeuchi T, Shibuta S, Suenaga T, Suzuki H, Higashi K, Yasukawa K, Suzuki Y, Sasago K, Kemmotsu Y, Takatsuki S, Saji T, Yoshikawa T, Nagai T, Hamamoto K, Kishi F, Ouchi K, Sato Y, Newburger JW, Baker AL, Shulman ST, Rowley AH, Yashiro M, Nakamura Y, Wakui K, Fukushima Y, Fujino A, Tsunoda T, Kawasaki T, Hata A, Nakamura Y, Tanaka T. (2010) Common variants in CASP3 confer susceptibility to Kawasaki disease. *Hum Mol Genet.* 19,2898-2906.
33. Shiina Y, Toyoda T, Kawasoe Y, Tateno S, Shirai T, Wakisaka Y, Matsuo K, Mizuno Y, Terai M, Hamada H, Niwa K. (2011) Prevalence of adult patients with congenital heart disease in Japan. *Int J Cardiol.* 146,13-16.
34. Ebata R, Abe J, Yasukawa K, Hamada H, Higashi K, Suwazono Y, Saito H, Terai M, Kohno Y. (2011) Increased production of vascular endothelial growth factor-D and lymphangiogenesis in acute Kawasaki disease. *Circ J.* 75:1455-1462.
35. Terai M, Honda T, Yamamoto S, Yoshida M, Tsuchiya N, Moriyama Y, Matsui T, Tokutake S, Suzuki E, Shirato Y, Muto A, Hayashi K, Hamada H. (2011) Early induction of interleukin-5 and peripheral eosinophilia in acute pneumonia in Japanese children infected by pandemic 2009 influenza A (H1N1). *Microbiol Immunol.* 55,341-346.
36. Suzuki H, Terai M, Hamada H, Honda T, Suenaga T, Takeuchi T, Yoshikawa N, Shibuta S, Miyawaki M, Oishi K, Yamaga H, Aoyagi N, Iwahashi S, Miyashita R, Onouchi Y, Sasago K, Suzuki Y, Hata A. (2011) Cyclosporin A treatment for Kawasaki disease refractory to initial and additional intravenous immunoglobulin. *Pediatr Infect Dis J.* 10,871-876.
37. Nishimura Y, Ii M, Qin G, Hamada H, Asai J, Takenaka H, Sekiguchi H, Renault MA, Jujo K, Katoh N, Kishimoto S, Ito A, Kamide C, Kenny J, Millay M, Misener S, Thorne T, Losordo DW. (2012) CXCR4 Antagonist AMD3100 Accelerates Impaired Wound Healing in Diabetic Mice. *J Invest Dermatol.* 132,711-720.
38. Onouchi Y, Ozaki K, Burns JC, Shimizu C, Terai M, Hamada H, Honda T, Suzuki H, Suenaga T, Takeuchi T, Yoshikawa N, Suzuki Y, Yasukawa K, Ebata R, Higashi K, Saji T, Kemmotsu Y, Takatsuki S, Ouchi K, Kishi F, Yoshikawa T, Nagai T, Hamamoto K, Sato Y, Honda A, Kobayashi H, Sato J, Shibuta S, Miyawaki M, Oishi K, Yamaga H, Aoyagi N, Iwahashi S, Miyashita R, Murata Y, Sasago K, Takahashi A, Kamatani N, Kubo M, Tsunoda

- T, Hata A, Nakamura Y, Tanaka T; Japan Kawasaki Disease Genome Consortium; US Kawasaki Disease Genetics Consortium. (2012) A genome-wide association study identifies three new risk loci for Kawasaki disease. Nat Genet. 44,517-521.
39. Hamada H, Suzuki H, Abe J, Suzuki Y, Suenaga T, Takeuchi T, Yoshikawa N, Shibuta S, Miyawaki M, Oishi K, Yamaga H, Aoyagi N, Iwahashi S, Miyashita R, Honda T, Onouchi Y, Terai M, Hata A. (2012) Inflammatory cytokine profiles during Cyclosporin treatment for immunoglobulin-resistant Kawasaki Disease. Cytokine. 60,681-685.
 40. Onouchi Y, Suzuki Y, Suzuki H, Terai M, Yasukawa K, Hamada H, Suenaga T, Honda T, Honda A, Kobayashi H, Takeuchi T, Yoshikawa N, Sato J, Shibuta S, Miyawaki M, Oishi K, Yamaga H, Aoyagi N, Iwahashi S, Miyashita R, Murata Y, Ebata R, Higashi K, Ozaki K, Sasago K, Tanaka T, Hata A. (2013) ITPKC and CASP3 polymorphisms and risks for IVIG unresponsiveness and coronary artery lesion formation in Kawasaki disease. Pharmacogenomics J. 13,52-59.
 41. Mackie AR, Krishnamurthy P, Verma SK, Thorne T, Ramirez V, Qin G, Abramova T, Hamada H, Losordo DW, Kishore R. (2013) Alcohol Consumption Negates Estrogen-mediated Myocardial Repair in Ovariectomized Mice by Inhibiting Endothelial Progenitor Cell Mobilization and Function. J Biol Chem. 288,18022-18034.
 42. Sekiguchi H, Ii M, Jujo K, Thorne T, Ito A, Klyachko E, Hamada H, Kessler JA, Tabata Y, Kawana M, Asahi M, Hagiwara N, Losordo DW. (2013) Estradiol promotes neural stem cell differentiation into endothelial lineage and angiogenesis in injured peripheral nerve. Angiogenesis. 16,45-58.
 43. Okada M, Hamada H**, Sato-Maru H, Shirato Y, Honda T, Muto A, Hayashi K, Terai M. (2013) WU polyomavirus detected in respiratory tract specimens from young children in Japan. Pediatr Int. Pediatr Int. 2013; 55:536-7.
 44. Hirose Y, Hamada H**, Wakui T, Ogawa T, Terai M. (2014) Characteristic systemic cytokine responses in children with human bocavirus-positive lower respiratory tract infection. Microbiol Immunol. 58:215-8.
 45. Yoshino M, Sekine Y, Koh E, Kume Y, Saito H, Kimura S, Hamada H, Wu D, Hiroshima K. Pericardial synovial sarcoma: a case report and review of the literature. Surg Today 2014;44:2167-2173.
 46. Kinumaki A, Sekizuka T, Hamada H, Kato K, Yamashita A, Kuroda M. Characterization of the gut microbiota of Kawasaki disease patients by metagenomic analysis. Front Microbiol 2015; 6: 824. doi 10.3389/fmicb.2015.00824
 47. Aoyagi R, Hamada H, Sato Y, Suzuki H, Onouchi Y, Ebata R, Nagashima K, Terauchi M, Terai M, Hanaoka H, Hata A; KAICA Trial investigators. Study protocol for a phase III multicentre, randomised, open-label, blinded-end point trial to evaluate the efficacy and safety of immunoglobulin plus cyclosporin A in patients with severe Kawasaki disease (KAICA Trial). BMJ Open 2015;5:e009562. doi: 10.1136/bmjopen-2015-009562.
 48. Hamada H, Sekizuka T, Oba K, Katano H, Kinumaki A, Terai M, Mizutani T, Kuroda M. Comprehensive Pathogen Detection Associated with four Recurrent Episodes of Kawasaki Disease Patient during a Single Year Using Next-generation Sequencing. JMM Case Reports 2016; 3: doi: 10.1099/jmmcr.0.005019
 49. Onouchi Y, Fukazawa R, Yamamura K, Suzuki H, Kakimoto N, Suenaga T, Takeuchi T, Hamada H, Honda T, Yasukawa K, Terai M, Ebata R, Higashi K, Saji T, Kemmotsu Y, Takatsuki S, Ouchi K, Kishi F, Yoshikawa T, Nagai T, Hamamoto K, Sato Y, Honda A, Kobayashi H, Sato J, Shibuta S, Miyawaki M, Oishi K, Yamaga H, Aoyagi N, Yoshiyama M,

- Miyashita R, Murata Y, Fujino A, Ozaki K, Kawasaki T, Abe J, Seki M, Kobayashi T, Arakawa H, Ogawa S, Hara T, Hata A, Tanaka T. Variations in ORAI1 Gene Associated with Kawasaki Disease. PLoS One 2016; 11: e0145486.
50. Hoshina S, Sekizuka T, Kataoka M, Hasegawa H, Hamada H, Kuroda M, Katano H. Profile of Exosomal and Intracellular microRNA in Gamma-Herpesvirus-Infected Lymphoma Cell Lines. PLoS One 2016; 11: e0162574.
 51. Gamez-Gonzalez LB, Hamada H, Llamas-Guillen BA, Ruiz-Fernandez M, Yamazaki-Nakashimada M. BCG and Kawasaki disease in Mexico and Japan. Hum Vaccin Immunother. 2017;13:1091-1093 doi: 10.1080/21645515.2016.1267083.
 52. Kwon YC, Kim JJ, Yun SW, Yu JJ, Yoon KL, Lee KY, Kil HR, Kim GB, Han MK, Song MS, Lee HD, Ha KS, Sohn S, Ebata R, Hamada H, Suzuki H, Ito K, Onouchi Y, Hong YM, Jang GY, Lee JK; Korean Kawasaki Disease Genetics Consortium. PLoS One 2017;12:e0184248. Doi:10.1371/journal.pone.0184248. eCollection 2017.
 53. Sano K, Hamada H^{**}, Hirose S, Sugiura K, Harada S, Koizumi M, Hara M, Nishijima H, Taira M, Ogura A, Ogawa T, Takanashi J. Prevalence and characteristics of human parechovirus and enterovirus infections in febrile infants. Ped Int 2017; doi : 10.1111/ped.13467.[Epub ahead of print]
 54. Gámez-González LB, Hamada H^{**}, Cisneros CM, Honda T, Yasukawa K, Takanashi J. Vital Signs as Predictor Factors of Intravenous Immunoglobulin Resistance in Patients With Kawasaki Disease. Clin Pediatr 2018 (In press).
 55. Yamazaki-Nakashimada MA, Gámez-González LB, Murata C, Honda T, Yasukawa K, Hamada H. IgG levels in Kawasaki disease and its association with clinical outcomes. Clin Rheumatol. 2019 ;38:749-754. doi: 10.1007/s10067-018-4339-0. Epub 2018 Oct 20.
 56. Kim JJ, Yun SW, Yu JJ, Yoon KL, Lee KY, Kil HR, Kim GB, Han MK, Song MS, Lee HD, Ha KS, Sohn S, Ebata R, Hamada H, Suzuki H, Ito K, Onouchi Y, Hong YM, Jang GY, Lee JK; and the Korean Kawasaki Disease Genetics Consortium. Identification of SAMD9L as a susceptibility locus for intravenous immunoglobulin resistance in Kawasaki disease by genome-wide association analysis. Pharmacogenomics J. 2019 Apr 11. doi: 10.1038/s41397-019-0085-1. [Epub ahead of print]
 57. Ebata R, Yasukawa K, Nagai K, Higashi K, Homma J, Takeda N, Takechi F, Saito N, Kobayashi H, Okunishi K, Hamada H, Kohno Y, Hanaoka H, Shimojo N. Sivelestat sodium hydrate treatment for refractory Kawasaki disease patients. Pediatr Int 2019; Mar 27. Doi: 10.1111/ped.13851[Epub ahead of print]
 58. Hamada H^{*}, Suzuki H^{*}, Onouchi Y^{*}, Ebata R, Terai M, Fuse S, Okajima Y, Kurotobi S, Hirai K, Soga T, Ishiguchi Y, Okuma Y, Takada N, Yanai M, Sato J, Nakayashiro M, Ayusawa M, Yamamoto E, Nomura Y, Hashimura Y, Ouchi K, Masuda H, Takatsuki S, Hirono K, Ariga T, Higaki T, Otsuki A, Terauchi M, Aoyagi R, Sato T, Fujii Y, Fujiwara T, Hanaoka H, Hata A. Efficacy of primary treatment with immunoglobulin plus cyclosporine for prevention of coronary artery abnormalities in Kawasaki disease patients predicted to be at increased risk of IVIG non-response (KAICA study): a controlled, phase 3, randomised, open-label, blinded-endpoints trial. Lancet 2019;393(10176): 1128-1137. doi: 10.1016/S0140-6736(18)32003-8.
 59. Thiha K, Mashimo Y, Suzuki H, Hamada H, Hata A, Hara T, Tanaka T, Ito K, Onouchi Y; Japan Kawasaki Disease Genome Consortium. Investigation of novel variations of ORAI1 gene and their association with Kawasaki disease. J Hum Genet. 2019 Mar 11. doi: 10.1038/s10038-019-0588-2.

Special Presentations and Invited Lectures

1. Hamada H. How common is Kawasaki Disease? Viewpoint from Asia. 1st Annual conference of Kawasaki Disease Society of India. Nov. 3rd, 2018, Chandigarh India
2. Hamada H. Incomplete and atypical Kawasaki Disease. 1st Annual conference of Kawasaki Disease Society of India. Nov. 3rd, 2018, Chandigarh India
3. Hamada H. Current status on acute phase treatment for Kawasaki Disease in Japan. 1st Annual conference of Kawasaki Disease Society of India. Nov. 3rd, 2018, Chandigarh India
4. Hamada H. Fate of Kawasaki disease giant coronary aneurysm: 10-year nationwide survey in Japan. 1st Annual conference of Kawasaki Disease Society of India. Nov. 4th, 2018, Chandigarh India
5. Hamada H. Updates of treatment for Kawasaki disease patients. 4th Oriental Congress of Pediatrics. Sep 15th, 2018, Shanghai, China
6. Hamada H. Current Progress in the treatment of acute illness for Kawasaki disease. 12th International Kawasaki disease Symposium. June 13th, 2018, Yokohama, Japan.
7. Hamada H., Iwakura A, Thorne T, Masaaki Ii, Silver M, Burg A, Wecker A, Qin G, Zhu Y, Kishore R, Losordo DW. Differential role of estrogen receptors alpha and beta in estradiol enhanced contribution of bone marrow derived endothelial progenitor cells to neovascularization after ischemic injury. 2006 American Heart Association Melvin L. Marcus Young Investigator Awards in cardiovascular science finalist, Nov 2006, Chicago.
8. Hamada H., Losordo DW. Invited lecture “EPC therapeutic potency-mechanism and our clinical trial”. 14th CBD meeting, International conference of EPC biology, Mar 2006, Kobe RIKEN, Kobe.

Abstracts (International meeting)

1. Hamada H., Suzuki H, Onouchi Y, Ebata R, Terai M, Fuse S, Okajima Y, Kurotobi S, Hirai K, Soga T, Ishiguchi Y, Okuma Y, Takada N, Yanai M, Sato J, Nakayashiro M, Ayusawa M, Yamamoto E, Nomura Y, Hashimura Y, Ouchi K, Masuda H, Takatsuki S, Hirono K, Ariga T, Higaki T, Otsuki A, Terauchi M, Aoyagi R, Sato T, Fujii Y, Fujiwara T, Hanaoka H, Hata A. A phase 3 multicenter, prospective, randomized, open-label, blinded-end point trial to evaluate the efficacy and safety of immunoglobulin plus cyclosporine A in patients with severe Kawasaki disease (KAICA Trial). International Vasculitis and ANCA Workshop 2019, Philadelphia, 2019.
2. Hamada H., Suzuki H, Onouchi Y, Ebata R, Terai M, Fuse S, Okajima Y, Kurotobi S, Hirai K, Soga T, Ishiguchi Y, Okuma Y, Takada N, Yanai M, Sato J, Nakayashiro M, Ayusawa M, Yamamoto E, Nomura Y, Hashimura Y, Ouchi K, Masuda H, Takatsuki S, Hirono K, Ariga T, Higaki T, Otsuki A, Terauchi M, Aoyagi R, Sato T, Fujii Y, Fujiwara T, Hanaoka H, Hata A. A phase 3 multicenter, prospective, randomized, open-label, blinded-end point trial to evaluate the efficacy and safety of immunoglobulin plus cyclosporine A in patients with severe Kawasaki disease (KAICA Trial). 12nd International Kawasaki Disease symposium, Yokohama, 2018.
3. Hamada H., Honda T, Yasukawa K, Matsui T, Terai M. Favorable outcome of patients with Kawasaki disease treated with unified protocol with cyclosporine A as the third line therapy. 11th International Kawasaki Disease symposium, Honolulu, 2015.
4. Hamada H., Suzuki H, Abe J, Suenaga T, Takeuchi T, Yoshikawa N, Shibuta S, Miyamwaki M, Oishi K, Yamaga H, Aoyagi N, Iwahashi S, Miyashita R, Honda T, Onouchi Y, Suzuki Y,

- Terai M, Hata A. Inflammatory cytokine profiles during cyclosporine treatment for refractory Kawasaki disease. 10th International Kawasaki Disease symposium, Kyoto 2012.
5. Hamada H, Suzuki H, Abe J, Onouchi Y, Suzuki Y, Terai M, Hata A. Inflammatory Cytokine Profiles Under Cyclosporin Treatment for Refractory Kawasaki Disease. Circulation 2011
 6. Jujo K, Hamada H, Sekiguchi H, Thorne T, Klyachko E, Renault MA, Losordo DW, Single Dose CXCR4 Antagonist Enhances Recovery From Ischemia Reperfusion Injury While Continuous Blockade Abolishes Treatment Effect. Circulation 2009;120:S847.
 7. Jujo K, Hamada H, Seguchi H, Thorne T, Klyachko E, Renault MA, Losordo DW. CXCR4 Antagonist AMD3100 Preserves Cardiac Function After Myocardial Infarction (MI) via CXCR4 Dependent and Independent Pathways Circulation 2009;120:S1041-1042.
 8. Renault MA, Roncalli J, Tongers J, Hamada H, Thorne T, Misener S, Ito A, Clarke T, Millay M, Scarpelli A, Klyachko E, Losordo DW. Gli2 and Gli3 are over-expressed in the ischemia-induced angiogenesis and myogenesis. Circulation 2008; 118: S_551.
 9. Jujo K, Ii M, Sekiguchi H, Hamada H, Thorne T, Klyachko E, Clarke T, Ito A, Misener S, Renault MA, Losordo DW. Bone marrow MMP-9 expression mediates therapeutic effect of selective CXCR4 antagonist AMD3100 on myocardial infarction. Circulation 2008; 118: S_536-S_537.
 10. Rajasingh J, Lambers EM, Bord E, Hamada H, Goukassian I, Qin G, Losordo DW, Kishore R. **De-differentiation of Somatic Fibroblasts by Mouse Embryonic Stem Cell-free Extracts: Multi-lineage Re-differentiation and Therapeutic Efficacy of Re-programmed Cells in Mouse Models of Hind limb and Acute Myocardial Ischemia.** Circulation, 2007; **116**: II_105.
 11. Rajasingh J, Lambers E, Bord E, Hamada H, Qin G, Losordo DW, Kishore R. **STAT3-dependent mouse Embryonic Stem Cell Differentiation into Cardiomyocytes: Analysis of Molecular Signaling and Therapeutic Efficacy of Cardiomyocyte Pre-committed mES in a Mouse Model of Myocardial Infarction.** Circulation 2007; **116**: II_260.
 12. Roncalli J, Renault M, Thorne T, Jujo K, Klyachko E, Hamada H, Kusano K, Losordo DW. **Combined Stem Cell Mobilization via CXCR4 Antagonist Augments Recruitment of EPCs Following Sonic Hedgehog Gene Therapy via Increased Local Expression of VEGF and SDF-1.** Circulation 2007; **116**: II_261.
 13. Hamada H, Iwakura A, Thorne T, Masaaki Ii, Silver M, Burg A, Wecker A, Qin G, Zhu Y, Kishore R, Losordo DW. Differential role of estrogen receptors alpha and beta in estradiol enhanced contribution of bone marrow derived endothelial progenitor cells to neovascularization after ischemic injury. 2006 American Heart Association Scientific Meeting, Chicago.
 14. Hamada H, Yoshiaki T, Iwakura A, Thorne T, Sekiguchi H, Heyd L, Burg A, Bridger G, Losordo DW. Small molecule CXCR4 antagonist augments mobilization and incorporation of bone marrow derived endothelial progenitor cells into sites of myocardial neovascularization and reduces mortality after myocardial infarction. 2006 American Heart Association Scientific Meeting, Chicago.
 15. Hamada H, Iwakura A, Kim MK, Ii M, Qin G, Asai J, Tsutsumi Y, Thorne T, Luedemann C, Curry C, Bord E, Silver M, Eaton E, Ma H, Gavin M, Heyd L, Kishore R, Losordo DW. Role of estrogen receptor alpha and beta in estradiol enhanced contribution of bone marrow-derived endothelial progenitor cells to neovascularization after ischemic injury. Circulation 2005; 112: SupII-136.
 16. Ii M, Ibusuki K, Goukassian D, Tsutsumi Y, Hamada H, Luedemann C, Wecker A, Eaton E,

- Thorne T, Losordo DW. Accelerated reendothelialization in ApoE knockout mice is mediated by activated bone marrow-derived endothelial progenitor cells. *Circulation* 2005; 112: SupII-163.
17. Asai J, Takenaka H, Kusano KF, Ii M, Luedemann C, Curry C, Eaton E, Iwakura A, Tsutsumi Y, Hamada H, Losordo DW. Topical Sonic Hedgehog gene therapy accelerates wound healing in diabetes via EPCs. *Circulation* 2005; 112: SupII-233.
 18. Higashi K, Ebata R, Honda T, Yasukawa K, Hamada H, Terai M. In vitro endothelial cell dysfunction induced by serum from patients with Kawasaki Disease is modulated by p38 mitogen activated protein kinase. *Circulation* 2005; 112: supII-476.
 19. Higashi K, Ebata R, Honda T, Yasukawa K, Tohyama T, Jibiki T, Hamada H, Kanazawa M, Terai M. Impairment of serum angiogenic activity in acute Kawasaki Disease. 8th International Kawasaki Disease symposium 2005 Feb 17.
 20. Hamada H, Higashi K, Ebata R, Honda T, Tohyama T, Terai M. Serum angiogenic activity is increased in patients with cyanotic congenital heart disease. *Circulation* 2004; 110: SupII-386.
 21. Terai M, Yasukawa K, Higashi K, Honda T, Hamada H, Kohno Y. Impact of vascular leakage in acute Kawasaki disease. American Heart Association, Asian Pacific Scientific Forum, New Discoveries in Cardiovascular Disease and Stroke: Bench to Bedside to Community, 2003. Hawaii. (program, p49, 2003)
 22. Terai M, Jibiki T, Harada A, Terashima Y, Yasukawa K, Tateno S, Hamada H, Oana S, Niimi H, Matsushima K. Gamma globulin treatment of Kawasaki disease may target a chemokine, monocyte chemoattractant and activating factor. American Heart Association, 6th International Kawasaki Disease Symposium, 1999, Hawaii. (*Pediatr Res* 2000;47:552)

Dr. Surjit Singh

Date of birth: 19 August, 1960

Address for correspondence:

Head, Department of Pediatrics and
Chief, Pediatric Allergy and Immunology Unit,
Advanced Pediatrics Centre,
Post Graduate Institute of Medical Education and Research,
Chandigarh-160012, India

Email id: surjitsinghpgi@rediffmail.com; surjitsinghpc@gmail.com

Tel.: +91-172-2755301

Cell ph.: +91-98722-83832; +91-70870-08305

Fax: +91-172-2744401; +91-172-2745078

Graduated from Maulana Azad Medical College, New Delhi: 1982

M.D. Pediatrics – PGIMER, Chandigarh: 1985

D.C.H. - Royal College of Physicians, London: 1990

Fellowship in Pediatric Immunology, London: 1990

Fellow Indian Academy of Pediatrics: 2002

Fellow Indian College of Allergy and Applied Immunology: 2003

Fellow National Academy of Medical Sciences, India: 2009

Fellow Royal College of Paediatrics and Child Health, London: 2011

Fellow Royal College of Physicians, London: 2013

Am presently the Chair, Department of Pediatrics and heading the Pediatric Allergy and Immunology Unit at the Advanced Pediatrics Center in PGI, Chandigarh, India. Am also the Principal Investigator for Centre for Advanced Research in Primary Immunodeficiency Diseases, Indian Council of Medical Research, PGI Chandigarh (2015-2020).

Awarded James Flett Endowment Prize and Gold Medal (1985) by *Indian Academy of Pediatrics*; Zydyus Oration (2003) and IRA Oration (2010) by *Indian Rheumatology Association*; Von Pirquet Oration (2003) and V. Raju Gold Medal (2004) by *Indian College of Allergy and Applied Immunology*; Chaturvedi Kalawati Jagmohan Das Memorial Awards by *Indian Council of Medical Research* (2009); Chaturvedi Kalawati Jagmohan Das Memorial Awards by *Indian Council of Medical Research* (2011).

Delivered the *Dr. P.R. Dange Orations*, Nagpur (2005 and 2015); *Dr. Tirumala Rao Memorial Oration*, Vishakhapatnam (2008); *Dr. H.K. Gaur Oration*, Surat (2011); *Dr. K.C. Chaudhuri Oration*, Kolkata (2013); *Dr. Sisir Kumar Bose Oration* at Diamond Jubilee Celebrations of Institute of Child Health, Kolkata, 2016; *Balu Athreya Oration* of Pediatric Rheumatology Society, Bangalore, 2016; *Roland Levinsky Memorial Lecture*, Hong Kong Society for Immunology, Allergy and Infectious Diseases, Hong Kong, 2016; Dr. D.G. Benakappa Endowment Lecture, Bangalore, 2017; Annual Rheumatology Oration at Christian Medical College, Vellore, 2017; Dr. Nirmal Miglani Oration, Jaipur, 2018; *Stuart Gan Memorial Lecture*, 2019, Singapore Pediatrics Society.

Convener of National Immunization Committee of Indian Academy of Pediatrics (2003-04); President of Pediatric Rheumatology Society of India (2005-2006); Member of Advisory Committee on Vaccines and Immunization Practices, IAP, 2013-2014; President of Indian Society for Primary Immune Deficiency (ISPID): 2013-2014; Honorary Secretary, Asian Pacific Society for Immunodeficiencies (2016-2019); Vice-President of Indian Rheumatology Association (2017-2019); President Elect, Asian Pacific Society for Immunodeficiencies (2018-2020).

Associate Editor of International Journal of Rheumatic Diseases; Member of Editorial Advisory Board of Clinical Immunology Reviews; Member of Editorial

Board of Immunology and Genetics Journal; Member of the Medical Advisory Panel of the International Patient Organization for Primary Immunodeficiencies.

Founder Member of Pediatric Rheumatology Society of India, Indian Society of Primary Immune Deficiency (ISPID) and the Asia Pacific Society for Immunodeficiencies (ASPID).

A summary of major contributions of nominee in the field of Pediatric Clinical Immunology and Rheumatology, and especially in our understanding of the emergence of Kawasaki Disease in India (1991-2019):

Prof. Surjit Singh was involved in the setting up of **Pediatric Allergy Immunology Unit** at Advanced Pediatrics Centre, PGIMER, Chandigarh in 1993. This was the first, and remains till date the only, specialized pediatric immunology unit in the country. His unit has recently been sanctioned a **Centre for Advanced Research** in Primary Immunodeficiency Diseases by the **Indian Council of Medical Research** and the **Department of Health Research, Government of India (2015-2020)**.

Prof. Singh is the incumbent President-Elect of Asia Pacific Society for Immunodeficiencies (APSID) and the Vice-President of Indian Rheumatology Association.

He started, for the first time in India, a **3 years postdoctoral DM Training Programme in Pediatric Clinical Immunology and Rheumatology** at PGIMER, Chandigarh in January 2014. Seven Fellows have already completed their training and are serving in various parts of our country. Ten Fellows are currently undergoing training under this programme.

Prof. Singh now has the country's largest experience on childhood vasculitides. Of these, especially noteworthy is his work on the hitherto rarely reported **Kawasaki Disease (KD)**.

He has made fundamental contributions in our understanding of this condition. His unit has been largely responsible for increasing awareness about KD amongst pediatricians and physicians in India. Work done in the unit has shown that KD may well turn out to be the commonest cause of acquired heart disease amongst children in India, just as is the case in the developed world.

He has been conferred the **ICMR *Chaturvedi Kalawati Jagmohan Das Memorial Award*** twice – in **2009** and **2011**. Both of these awards were in recognition of his work on Kawasaki Disease.

His work on KD in India has attracted the attention of researchers from several countries. **Dr. Tomisaku Kawasaki**, the legendary Japanese pediatrician after whom this eponymous disease is named, himself has **visited Chandigarh in October 2005**. **Dr. Singh has the privilege of co-authoring 4 manuscripts with Dr. Kawasaki himself** – in 2009, 2014, 2016 and 2018 respectively. In February 2006, Dr. Jane Burns (*Professor of Pediatrics, University of California, San Diego*) and Prof. Howard Kushner (*Nat C. Robertson Distinguished Professor of Science, Emory University, Atlanta*) visited his centre to document the emergence of KD in India. This visit was funded by the National Institutes of Health, Bethesda and the National Library of Medicine, USA.

Dr. Singh has been amongst the invited international faculty at the IXth. (*Taipei, Taiwan; 2008*), Xth. (*Kyoto, Japan; 2012*), XIth. (*Honolulu, USA; 2015*) and XIIth. (*Yokohama, Japan; 2018*) International Kawasaki Disease Symposia – the only doctor from India to be so invited.

In recognition of his contribution to the field of Kawasaki Disease, the Indian Rheumatology Association (IRA) conferred the prestigious **IRA Oration** on him in 2010. He has also been the recipient of the **Dr. K.C. Chaudhuri Oration** (Institute of Child Health, Kolkata), the **Dr. P.R. Dange Orations** (Nagpur- 2005 and 2015), the **Dr. H.K. Gaur Oration** (Surat), the **Annual Rheumatology Oration** (Christian Medical College, Vellore), and the **Dr. Nirmal Miglani Oration** (Jaipur) in recognition of his work in KD. The Hong Kong Society for Immunology, Allergy and Infectious Diseases, Hong

Kong, conferred ***Roland Levinsky Memorial Lecture*** on him in 2016. He has recently delivered the ***Stuart Gan Memorial Lecture 2019***, at the invitation of Singapore Pediatrics Society.

He is a Fellow of the National Academy of Medical Sciences, the Indian Academy of Pediatrics, the Indian College of Allergy, Asthma and Applied Immunology, the Royal College of Physicians (London) and the Royal College of Pediatrics and Child Health (London). He has been a recipient of the Zydyus Oration and the IRA Oration of the Indian Rheumatology Association; James Flett Endowment Award and Gold Medal of Indian Academy of Pediatrics; V. Raju Award and Von Pirquet Prize of the Indian College of Allergy, Asthma and Applied Immunology. He has delivered the Dr. P.R. Dange Oration, Nagpur; Dr. Tirumala Rao Memorial Oration, Vishakhapatnam; Dr. H.K. Gaur Oration, Surat; Dr. K.C. Chaudhuri Oration, Kolkata; Dr. Sisir Kumar Bose Oration at Diamond Jubilee Celebrations of Institute of Child Health, Kolkata, 2016; Balu Athreya Oration of Pediatric Rheumatology Society, Bangalore, 2016; Roland Levinsky Memorial Lecture, Hong Kong Society for Immunology, Allergy and Infectious Diseases, Hong Kong, 2016; Dr. D.G. Benakappa Oration, Bangalore, 2017; Annual Rheumatology Oration, CMC, Vellore, 2017; and Dr. Nirmal Malkani Oration, Jaipur, 2018; Stuart Gan Memorial Lecture 2019, Singapore Pediatrics Society.

Prof. Singh has the privilege of being Founder Member of Pediatric Rheumatology Society of India, Indian Society for Primary Immune Deficiency (ISPID) and the Asia Pacific Society for Immunodeficiencies (APSID).

Curriculum vitae

Index

| Subject | Annexure No. | Page Nos. |
|--|---------------------|------------------|
| 1. Professional qualifications | Annexure 1 | 9 |
| 2. Initiation of DM Programme in Pediatric Clinical Immunology and Rheumatology | Annexure 2 | 10 |
| 3. Facilitation of DM Programmes in other superspecialties of Pediatrics | Annexure 3 | 10 |
| 4. Professional clinical experience | Annexure 4 | 11-12 |
| 5. Professional administrative experience | Annexure 5 | 13 |
| 6. Academic prizes, medals, orations and scholarships | Annexure 6 | 14-21 |
| 7. Office bearer of professional medical societies, editorial responsibilities, membership of scientific societies | Annexure 7 | 22-24 |
| 8. Publications in peer-reviewed journals | Annexure 8 | 25-75 |
| 9. Authorship / editorship of books | Annexure 9 | 76 |
| 10. Chapters in books | Annexure 10 | 77-92 |
| 11. Community outreach and patient welfare activities | Annexure 11 | 93-96 |
| 11. Scientific meetings organized | Annexure 12 | 97 |
| 12. Research grants won | Annexure 13 | 98-99 |
| 13. Member of decision making bodies of universities / Medical Council of India | Annexure 14 | 100 |
| 14. Member of Technical Expert Groups / Advisory Groups: <i>Extramural</i> | Annexure 15 | 101-102 |

| | | | |
|-----|---|-------------|---------|
| 15. | Member of Technical Expert Groups/Advisory Groups: <i>Intramural</i> | Annexure 16 | 103 |
| 16. | Visiting Professor / Fellow | Annexure 17 | 104 |
| 17. | Other academic credits | Annexure 18 | 105-106 |
| 18. | Contribution towards development of the speciality of Pediatric Clinical Immunology and Rheumatology in India | Annexure 19 | 107-113 |

Annexure 1

Professional qualifications:

| Degree | Year | University/College/ Institution |
|---|-------------|---|
| M.B;B.S. | 1982 | Maulana Azad Medical College, University of Delhi, New Delhi, India |
| M.D. Pediatrics | 1985 | PGIMER, Chandigarh, India |
| D.C.H. - London (Diploma in Child Health) | 1990 | Royal College of Physicians, London, UK |
| Fellowship in Paediatric Immunology | 1990 | Hospital for Sick Children, Great Ormond Street and Institute of Child Health, London, UK |
| FIAP (Fellow of Indian Academy of Pediatrics) | 2002 | Indian Academy of Pediatrics, Mumbai, India |
| FICAAI (Fellow of Indian College of Allergy, Asthma and Applied Immunology) | 2003 | Indian College of Allergy, Asthma and Applied Immunology, New Delhi, India |
| FAMS (Fellow of National Academy of Medical Sciences, New Delhi) | 2009 | National Academy of Medical Sciences, New Delhi, India |
| FRCPCH (Fellow of Royal College of Paediatrics and Child Health, London) | 2011 | Royal College of Paediatrics and Child Health, London, UK |
| FRCP (Fellow of Royal College of Physicians, London) | 2013 | Royal College of Physicians, London, UK |

Registration with Medical Council:

1. Medical Council of India, New Delhi (No. 3678)
2. General Medical Council, London, UK (Limited Registration - No. 90/0034)

Annexure 2

Initiation of DM Programme in Pediatric Clinical Immunology and Rheumatology at PGIMER, Chandigarh:

1. Initiated the **3-years DM Programme in Pediatric Clinical Immunology and Rheumatology** at the Post Graduate Institute of Medical Education and Research, Chandigarh: January 2014.
2. This is the first, and till date the only such, DM programme in Pediatric Immunology and Rheumatology in the country.
3. Seven Fellows have already completed their training and are serving in various parts of the country. Ten more are undergoing training at this time.

Annexure 3

Facilitation of DM Programmes / Fellowships in other superspecialties of Pediatrics

1. I took over as Head, Department of Pediatrics, Advanced Pediatrics Centre, PGIMER, Chandigarh in October 2016.
2. Since taking over, I have facilitated the initiation of 3 DM Programmes in superspecialties of Pediatric Pulmonology, Pediatric Endocrinology and Medical Genetics. The first batches of students in these superspecialties were inducted in January 2019.
3. I have also facilitated the initiation of 1-year Fellowship Programmes in the following specialized areas:
 - i) Pediatric Epilepsy
 - ii) Pediatric Laboratory Immunology and Molecular Hematology

Annexure 4

Professional clinical experience (within India):

| Designation | From | To | Institution |
|---|-------------|--------------|--|
| Professor of Paediatrics | 21.12. 2005 | Present time | Post Graduate Institute of Medical Education and Research, Chandigarh, India |
| Additional Professor of Paediatric Allergy and Immunology | 01.07.1999 | 20.12.2005 | -Do- |
| Associate Professor of Paediatric Allergy and Immunology | 01.07.1994 | 30.06.1999 | -Do- |
| Assistant Professor of Paediatric Allergy and Immunology | 04.10.1993 | 30.06.1994 | -Do- |
| Assistant Professor of Pediatrics | 01.01.1989 | 03.10.1993 | -Do- |
| Senior Resident, Department of Paediatrics | 01.04.1986 | 31.12.1988 | -Do- |

Professional clinical experience (abroad):

| Designation | From | To | Institution |
|------------------------------------|-------------|------------|--|
| Registrar in Paediatric Immunology | 01.01.1990 | 31.12.1990 | Hospital for Sick Children, Great Ormond Street and Institute of Child Health, London, U.K. |
| Visiting Professor in Paediatrics | 01.05.2002 | 30.06.2002 | B.P. Koirala Institute of Health Sciences, Dharan, Nepal |
| Visiting Professor in Paediatrics | 29.07.2014 | 08.08.2014 | Department of Pediatrics, Shaanxi Provincial People's Hospital of Xian, Jiaotong University, Xian, China |

Annexure 5

Professional administrative experience:

| Designation | From | To | Institution |
|---|-------------|-------------|--|
| Deputy Medical Superintendent, Advanced Paediatrics Centre, PGIMER | 16.07.1999 | 24.04.2000 | Post Graduate Institute of Medical Education and Research, Chandigarh, India |
| Joint Medical Superintendent, Procurement Branch, Nehru Hospital, PGIMER | 14.09.2005 | 23.04.2009 | Post Graduate Institute of Medical Education and Research, Chandigarh, India |
| Chief Vigilance Officer, PGIMER, Chandigarh | 13.12.2009 | 02.02.2016 | Post Graduate Institute of Medical Education and Research, Chandigarh, India |
| Officiating Deputy Director, PGIMER, Chandigarh | 01.10.2010 | 07.12. 2011 | Post Graduate Institute of Medical Education and Research, Chandigarh, India |

Annexure 6

Academic prizes, medals, orations and scholarships:

1. Overseas fellowship:

Fellowship for one-year's training in Pediatric Immunology at the Institute of Child Health and Hospital for Sick Children, Great Ormond Street, London, United Kingdom - 1990.

2. Research awards by Indian Council of Medical Research (ICMR), New Delhi – 2009 and 2011

a). *Chaturvedi Kalawati Jagmohan Das Memorial Award 2009* for work related to Kawasaki Disease

b). *Chaturvedi Kalawati Jagmohan Das Memorial Award 2011* for work related to Kawasaki Disease

3. Award by Hong Kong Society for Immunology, Allergy and Infectious Diseases, Hong Kong, 2016

Delivered the *Roland Levinsky Memorial Lecture, 2016: 'Kawasaki Disease: the Chandigarh experience'*

4. Award by Singapore Pediatrics Society, 2019

Delivered the *14th. Stuart Gan Memorial Lecture, 2019*, Singapore: 'Our journey with Primary Immunodeficiency Disorders at Chandigarh, North India: trials, tribulations and some success.'

5. Director, National Co-ordinating Centre Pediatric Rheumatology International Trials Organization (PRINTO), Genoa, Italy (2015-2019).

6. Was selected as a Co-ordinator for a Global Initiative of Academic Networks (GIAN) Programme on Primary Immunodeficiencies,

Ministry of Human Resource Development, Government of India,
Feb. 18-22, 2019.

Academic awards by national societies:

A. Awards given by the Indian Academy of Paediatrics

1. **James Flett Endowment Award** and **Gold Medal** of Indian Academy of Paediatrics -1985.
2. Trainee Fellowships of Indian Academy of Paediatrics twice in successive years - 1987 & 1988; the latter was for work in Allergy and Immunology.
3. Was appointed **Convener** of the **National Immunization Committee** of Indian Academy of Paediatrics for 2003-04.
4. Selected as a **Fellow** of the Indian Academy of Paediatrics - 2002.
5. Member of the Advisory Committee on Vaccination and Immunization Practices (ACVIP), Indian Academy of Pediatrics (2013-2014).
6. **Convener** of IAP Committee on Kawasaki Disease (2018).

B. Awards given by Indian College of Allergy, Asthma and Applied Immunology

1. Was awarded the **V. Raju Award and Gold Medal** (2004) for work related to Primary Immunodeficiency Disorders in children.
2. Was awarded the **Von-Pirquet Prize** (2003) for work related to Autoimmune Disorders in Children.
3. Was selected as a **Fellow** of the College in 2003.
4. The work related to Keratoconjunctivitis sicca in children with Juvenile Rheumatoid Arthritis (Jain V, **Singh S**, Sharma A) was awarded the **Sundaramma Award** at the 33rd. Annual Convention of the College in 1999 (Vivek Jain).

C. Awards given by the Indian Rheumatology Association

1. Was awarded **Zydus Oration** of Indian Rheumatology Association in 2003 for work related to childhood vasculitides.

2. Delivered the **Indian Rheumatology Association (IRA) Oration** at Bhuvaneshwar, November 2010 – “***Kawasaki Disease: our experience at PGIMER, Chandigarh***”.

D. Award given by the Pediatric Rheumatology Society of India

Delivered the **Balu Athreya Oration** of Pediatric Rheumatology Society, Bangalore, 2016 – “***Kawasaki Disease: our experience over 22 years***”.

E. Other orations delivered in India

1. At Nagpur, Maharashtra

Delivered the **15th. Dr. P.R. Dange Oration** of Indian Academy of Paediatrics, Nagpur Branch, in December, 2005. The oration was entitled, “***Kawasaki Disease – walking the tightrope***”.

2. At Vishakhapatnam, Andhra Pradesh

Delivered the **Dr. Tirumala Rao Memorial Oration** at the 1st Central Zone and XXIX Andhra Pradesh State Conference of Indian Academy of Paediatrics in November 2008 at **Vishakhapatnam**. The oration was entitled, “***Approach to prolonged fevers in children***”.

3. Delivered the **Dr. H.K. Gaur Oration** of Surat Paediatric Association, February 2011 – “***Kawasaki Disease – an enigma***”.
4. Delivered the **Dr. K.C. Chaudhuri Oration** at the Institute of Child Health, Kolkata, August 2013 – “***Kawasaki Disease at PGIMER, Chandigarh: 1994-2013***”.
5. Delivered the **25th. Dr. P. R. Dange Oration** of the Nagpur Branch of Indian Academy of Pediatrics, January 2015. The oration was entitled “***Kawasaki Disease – an enigma still***”.
6. Delivered the **Dr. Sisir Kumar Bose Oration** at the Diamond Jubilee Celebrations of Institute of Child Health, Kolkata, August 2016 – “***Childhood lupus – the Chandigarh experience***”.

7. Delivered the **Dr. D.G. Benakappa Endowment Lecture**, Bangalore, 2017 – **“Primary Immunodeficiencies”**.
8. Delivered the **Annual Rheumatology Oration** at **Christian Medical College, Vellore**, 2017 - **“Kawasaki Disease in India”**.
9. Delivered the **Dr. Nirmal Miglani Oration**, Jaipur, 2018, Santokba Durlabhji Hospital, Jaipur – **“Kawasaki Disease at Chandigarh – our experience over 24 years”**.

F. Adjunct Professor

Appointed Adjunct Professor at Department of Pediatrics, Kasturba Medical College, Manipal Academy of Higher Education, Mangalore (2018-2019).

G. Awards won at PGIMER, Chandigarh

1. The paper entitled, “*A study of subcutaneous fat in children with juvenile dermatomyositis. Verma S, **Singh S**, Bhalla AK, Khullar M. **Arthritis and Rheumatism (Arthritis Care and Research)** 2006; 55: 564-568*” was awarded the **Maj. Gen. Amir Chand Gold Medal 2006** for the best published paper by an MD student (Sumit Verma) at the XXVIII Annual Convocation of the institute held in 2007.
2. The paper entitled, “*Prospective follow-up cardiac evaluation of children with Kawasaki disease in Northern India using the Japanese echocardiography criteria. Kothur K, **Singh S**, Sharma Y, Mittal BR. **Journal of Cardiology** 2007, 50: 299-307*” was awarded the **Dr. V.K. Saini Gold Medal 2007** for the best published paper by an MD student (Kavitha Kothur) in the field of Cardiology at the XXIX Annual Convocation of the institute held in 2008.
3. The paper entitled, “*Endothelial dysfunction in a cohort of North Indian children with Kawasaki Disease without overt coronary artery involvement. Ghelani SJ, **Singh S**, Manojkumar R. **Journal of Cardiology** 2009; 53: 226-231*” was awarded the **V.K. Saini Gold Medal 2008** for the best published paper by an MD student in the field of Cardiology at the XXX Annual Convocation of the institute held in 2009.
4. The paper entitled, “*Pro-brain natriuretic peptide (ProBNP) levels in North Indian children with Kawasaki disease. [Reddy M](#), [Singh S](#), [Rawat A](#), [Sharma A](#), [Suri D](#), [Rohit](#)*”

[MK. Rheumatology International 2016;36\(4\):551-9](#), was selected for the **Dr. V.K. Saini Gold Medal 2017** for the best published paper by an MD student in the field of Cardiology at the XXXII Annual Convocation of the institute, 2019.

5. The paper entitled, *"Mid-term Risk for Subclinical Atherosclerosis and Chronic Myocarditis in Children with Kawasaki Disease and Transient Coronary Abnormalities.* [Parihar M, Singh S, Vignesh P, Gupta A, Rohit M. Pediatric Cardiology 2017; 38\(6\):1123-1132](#), was selected for the **Dr. V.K. Saini Gold Medal 2018** for the best published paper by an MD student in the field of Cardiology at the XXXII Annual Convocation of the institute, 2019.

H. Prizes/medals won at Maulana Azad Medical College, New Delhi

1. **First prize** in Physiology and Biochemistry.
2. **Honours** in First Professional Exmn. with Distinction in Physiology (85.3% marks).
3. **Dr. Tulsi Ram Gold Medal** in Pathology.
4. **Delhi Administration Gold Medal** in Pharmacology.
5. Second in Obstetrics and Gynaecology.
6. Delhi Administration Merit Scholarship for 1st Professional Exmn. (Oct. 1979-Dec. 1980).
7. Delhi Administration Merit Scholarship for 2nd Professional Exmn. (Oct. 1980-Dec. 1981).

I. Prizes won at Punjab Public School, Nabha

1. **President's Gold Medal** for best all-round student of Punjab Public School, Nabha (1975).
2. Merit Scholarship of Ministry of Education, Govt. of India, based on performance in Indian School Certificate Exmn. (1975).
3. **General Kalwant Singh Prize** for the best student in Indian School Certificate Exmn. at Punjab Public School, Nabha (1975).

J. Travel awards by international societies

1. **British Society for Immunology**

- a). International Travel Award of the British Society for Immunology for the John Humphrey Advanced Summer School in Immunology (1992) held at Tashkent, Uzbekistan, under the auspices of British Society for Immunology and Russian Immunological Society.
- b). International Travel Scholarship of the British Society for Immunology for the Leonardo da Vinci Programme - Immunofluorescence & Immunohistochemistry Training Course (1999) at Innsbruck, Austria.
- c). International Travel Award of the British Society for Immunology (1999) for visiting the Pediatric Immunology Unit at Queen Mary Hospital, Hong Kong.
- d). International Travel Award of the British Society for Immunology for John Humphrey Advanced Summer Programme and Lecture Series in Immunology (2000) at Puschino, Russia.
- e). International Travel Award of the British Society for Immunology for attending the IXth. International Kawasaki Disease Symposium at Taipei, Taiwan (2008).
- f). International Travel Award of the British Society for Immunology for attending the XIV th. Biennial Congress Meeting of the European Society for Immunodeficiency and the International Patient Organization for Primary Immunodeficiencies, Istanbul, Turkey, (2010).
- g). International Travel Award of the British Society for Immunology for attending the 100th. J Project Meeting on Primary Immunodeficiencies, Antalya, Turkey (2014).
- h). International Travel Award of the British Society for Immunology for attending the Annual Meeting of International Society on Thrombosis and Hemostasis. Berlin, Germany (2017).

2. British Transplantation Society

Won a Travel Award of the British Transplantation Society for the Summer School in Transplantation Immunology (1993) held at Newcastle - upon - Tyne, U.K., under the auspices of British Transplantation Society and British Society for Immunology.

3. Awarded an International Travel Grant by the Organizing Committee for attending the **3rd. International Conference for People Living with HIV/AIDS** at Amsterdam, Netherlands (1997).
4. Awarded an International Travel Grant by the **International Society for Thrombosis and Hemostasis** (ISTH) for attending the XXVII Congress of the ISTH, Melbourne, Australia (2019).

Annexure 7

A. Office bearer of international medical societies

1. Secretary

Secretary of *Asian Pacific Society for Immunodeficiencies (APSID)*: 2016-2018

2. President Elect

President-Elect *Asia Pacific Society for Immunodeficiencies*
(2018-2020)

B. Office bearer of national medical societies

1. President:

- a). President of Indian Society for Primary Immune Deficiency (2013 - 2014)
- b). President of Rheumatology Group of Indian Academy of Pediatrics (2005 – 2006)

2. President Elect:

Indian Society for Primary Immune Deficiency (2011-2012)

3. Vice-President

Vice-President, Indian Rheumatology Association (2017-2019)

4. Secretary:

Secretary of Rheumatology Group of Indian Academy of Pediatrics
(2003 – 2004)

5. Other elected offices:

- a). National Executive Board Member of Indian Academy of Pediatrics: 2002
- b). National Executive Board Member of Indian Rheumatology Association: 2005 – 2006 and 2014-2015

Editorial responsibilities

1. Associate Editor of International Journal of Rheumatic Diseases (2014 till date).
2. Member of Editorial Advisory Board of Clinical Immunology Reviews.
3. Member of Editorial Board of Immunology and Genetics Journal.
4. Section Editor for Pediatric Rheumatology for the Indian Academy of Pediatrics Textbook of Pediatrics.
5. Served as member of the National Advisory Board of Indian Pediatrics, Indian Journal of Pediatrics, Indian Journal of Practical Pediatrics and the Indian Journal of Rheumatology.
4. Section Editor for Pediatric Rheumatology for the journal, Pediatrics Today.
6. Served as reviewer for Archives of Disease in Childhood, Arthritis Rheumatism, Indian Pediatrics, Indian Journal of Pediatrics, Indian Journal of Rheumatology.

Membership of scientific societies

1. Fellow of the National Academy of Medical Sciences, India
2. Fellow of Indian Academy of Paediatrics
3. Fellow of Indian College of Allergy, Asthma and Applied Immunology
4. Member of British Society for Immunology
5. Life Member of Indian Immunology Society
6. Life Member of Indian Rheumatology Association
7. Founder and Life Member of Rheumatology Chapter, Indian Academy of Pediatrics
8. Founder and Life Member of Indian Society for Primary Immune Deficiency

Annexure 8

Publications in peer-reviewed journals (390)

2019

390. Rawat A, Arora K, Shandilya J, Vignesh P, Suri D, Kaur G, Rikhi R, Joshi V, Das J, Mathew B, **Singh S**. Flow Cytometry for Diagnosis of Primary Immune Deficiencies - A Tertiary Center Experience From North India. **Front. Immunol.** 2019 10:2111. doi:10.3389/fimmu.2019.02111

389. Rana P, Sodhi KS, Bhatia A, Saxena AK, Suri D, **Singh S**. Diagnostic accuracy of 3-T lung magnetic resonance imaging in human immunodeficiency virus-positive children. **Pediatr Radiol.** 2019 Sep 13. doi: 10.1007/s00247-019-04523-0. [Epub ahead of print] PMID: 31520121

388. Jindal AK, Pilonia RK, Prithvi A, Guleria S, **Singh S**. Kawasaki disease: characteristics, diagnosis and unusual presentations. **Expert Rev Clin Immunol.** 2019 Aug 28. doi: 10.1080/1744666X.2019.1659726. [Epub ahead of print]

387. Guleria S, Gupta A, Pilonia RK, Pandiarajan V, Rawat A, Saikia UN, **Singh S**, Suri D. Kikuchi-Fujimoto Disease: An Under Recognized Cause of Fever with Lymphadenopathy. **Indian J Pediatr.** 2019 Sep 13. doi: 10.1007/s12098-019-03070-8. [Epub ahead of print] No abstract available. PMID: 31520311

386. Gupta A, Pilonia RK, **Singh S**. Symmetrical cutaneous ulcers: Are they associated with severe disease in children with juvenile dermatomyositis?. **Eur J Rheumatol.** 2019 Aug 20:1-2. doi:

10.5152/eurjrheum.2019.19067 [Epub ahead of print]. □

385. Pilonia RK, Jindal AK, Guleria S, Vignesh P, Suri D, Nada R, **Singh S**. Chylous ascites and podocytopathy as the presentation of childhood lupus-an unusual occurrence. **Lupus** 2019 Feb;28(2):244-248.

384. Vignesh P, Sharma M, Pilonia RK, Shandilya JK, Kaur A, Goel S, Kaur A, Suri D, Rawat A, Dalal A, Sarma AS, **Singh S**. Myriad Faces of Chronic Granulomatous Disease: All in an Indian Family with Novel CYBB Defect. **J Clin Immunol.** 2019 Aug 15;39(6):611-5. doi: 10.1007/s10875-019-00661-0. Epub 2019 Jul 23.

383. Chaudhary H, Nameirakpam J, Kumrah R, Pandiarajan V, Suri D, Rawat A, **Singh S**. Biomarkers for Kawasaki disease: Clinical utility and the challenges ahead. **Front Pediatr.** 2019 Jun 18; 7:242. doi: 10.3389/fped.2019.00242. eCollection 2019. Review. PMID: 31275907

382. Pilonia, R.K., Jindal, A.K., Guleria, S. **Singh S**. An Update on Treatment of Kawasaki Disease. **Curr Treat Options in Rheum.** 2019;5:36. <https://doi.org/10.1007/s40674-019-00115-z>

381. Kumar Patra P, Zaffar Banday A, **Singh S**. Recent advances in pediatric rheumatology: January to March 2019. **Int J Rheum Dis.** 2019 Jun 27. doi: 10.1111/1756-185X.13646.

380. Jindal AK, Bishnoi A, Dogra S, **Singh S**. A Unique Combination of Nail Changes in a Boy With Kawasaki Disease. **J Clin Rheumatol.** 2019 Jun 18. doi: 10.1097/RHU.0000000000001079.

379. Prakash H, Ghosh AK, Rudramurthy SM, Singh P, Xess I, Savio J, Pamidimukkala U, Jillwin J, Varma S, Das A, Panda NK, **Singh S**, Bal A, Chakrabarti A. A prospective multicenter study on mucormycosis in India: Epidemiology, diagnosis, and treatment. **Med Mycol.** 2019 Jun 1;57(4):395-402. doi: 10.1093/mmy/mmy060.

378. Singh A, Jindal AK, Pilonia RK, Indla RT, Suri D, **Singh S**. Severe Lip Involvement in Kawasaki Disease: A Clinical Oddity. **J Clin Rheumatol.** 2019 May 21. doi: 10.1097/RHU.0000000000001046

- 377.** Pilania RK, **Singh S.** Rheumatology Panel in Pediatric Practice. **Indian Pediatr.** 2019 May 15;56(5):407-414.
- 376.** Jindal AK, Suri D, Guleria S, Rawat A, Garg S, Bal A, Casanova JL, Bustamante J, **Singh S.** Recurrent Salmonella typhi Infection and Autoimmunity in a Young Boy with Complete IL-12 Receptor β 1 Deficiency. **J Clin Immunol.** 2019 May;39(4):358-362. doi: 10.1007/s10875-019-00637-0.
- 375.** Jindal AK, Pilania RK, Suri D, Gupta A, Gattorno M, Ceccherini I, Kumar N, Bansal R, Nada R, **Singh S.** A young female with early onset arthritis, uveitis, hepatic, and renal granulomas: a clinical tryst with Blau syndrome over 20 years and case-based review. **Rheumatol Int.** 2019 May 6. doi: 10.1007/s00296-019-04316-6
- 374.** Gupta A, **Singh S.** Periungual dryness without resultant desquamation in a child with kawasaki disease: a new clinical finding? **Eur J Rheumatol.** 2019 Mar 10. doi: 10.5152/eurjrheum.2019.19001
- 373.** El-Sayed ZA, Abramova I, Aldave JC, Al-Herz W, Bezrodnik L, Boukari R, Bousfiha AA, Cancrini C, Condino-Neto A, Dbaibo G, Derfalvi B, Dogu F, Edgar JDM, Eley B, El-Owaidy RH, Espinosa-Padilla SE, Galal N, Haerynck F, Hanna-Wakim R, Hossny E, Ikinciogullari A, Kamal E, Kanegane H, Kechout N, Lau YL, Morio T, Moschese V, Neves JF, Ouederni M, Paganelli R, Paris K, Pignata C, Plebani A, Qamar FN, Qureshi S, Radhakrishnan N, Rezaei N, Rosario N, Routes J, Sanchez B, Sediva A, Seppanen MR, Serrano EG, Shcherbina A, **Singh S.** Siniah S, Spadaro G, Tang M, Vinet AM, Volokha A, Sullivan KE. X-linked agammaglobulinemia (XLA): Phenotype, diagnosis, and therapeutic challenges around the world. **World Allergy Organ J.** 2019 Mar 22;12(3):100018. doi: 10.1016/j.waojou.2019.100018.
- 372.** Pilania RK, Jindal AK, Srikrishna VV, Samprathi M, Singhal M, **Singh S.** Hypotension in a Febrile Child-Beware of Kawasaki Disease Shock Syndrome. **J Clin Rheumatol.** 2019 Mar 20. doi: 10.1097/RHU.0000000000001002.
- 371.** Jindal AK, Pilania RK, Suri D, Gupta PC, **Singh S.** An Adult With Fever and Facial Nerve Palsy: An Unusual Presentation of Kawasaki Disease. **J Clin Rheumatol.** 2019 Mar 12. doi: 10.1097/RHU.0000000000001024
- 370.** Guleria S, Pilania RK, Jindal AK, Bhattarai D, Suri D, **Singh S.** Recurrent Kawasaki disease at a tertiary care center in Chandigarh, North West India: 24 years of clinical experience. **Int J Rheum Dis.** 2019 Mar 3. doi: 10.1111/1756-185X.13519.
- 369.** Chaudhary H, Anjani G, **Singh S.** Recent advances in Pediatric Rheumatology: July to September 2018. **Int J Rheum Dis.** 2019 Mar;22(3):525-527. doi: 10.1111/1756-185X.13509.
- 368.** Kumrah R, Mathew B, Vignesh P, **Singh S.** Rawat A. Genetics of COPA syndrome. **Appl Clin Genet.** 2019 Feb 8;12:11-18. doi: 10.2147/TACG.S153600. eCollection 2019.
- 367.** Singh A, Pilania RK, Thapa B, Vignesh P, **Singh S.** Onycholysis-An Uncommon Finding in Kawasaki Disease. **J Clin Rheumatol.** 2019 Feb 19. doi: 10.1097/RHU.0000000000001001.
- 366.** Anjani G, Patra PK, **Singh S.** Recent advances in pediatric rheumatology: October to December 2018. **Int J Rheum Dis.** 2019 Mar;22(3):528-531. doi: 10.1111/1756-185X.13493.
- 365.** Vignesh P, **Singh S.** Platelet Activation Dynamics in Kawasaki Disease- Revisited. **Indian J Pediatr.** 2019 Mar;86(3):216-217. doi: 10.1007/s12098-019-02890-y.
- 364.** Bhukkar R, Sachdeva RK, Suri D, Shandilya J, Rawat A, Saikia B, **Singh S.** Reduced Natural Killer Cell Subsets in Perinatally Acquired Long-Term Non-Progressor Human Immunodeficiency Virus-Infected Children. **AIDS Res Hum Retroviruses.** 2019 May;35(5):437-443. doi: 10.1089/AID.2018.0243.

363. Rikhi R, Bhattad S, Jindal A, Saikia B, Garg R, Rawat A, Suri D, **Singh S.** Monoclonal Gammopathy of Unclear Significance in a Child with Wiskott-Aldrich Syndrome: a Rare Occurrence. **J Clin Immunol.** 2019 Jan;39(1):7-10. doi: 10.1007/s10875-018-0585-9.

362. Jinagal J, Gupta G, Agarwal A, Aggarwal K, Akella M, Gupta V, Suri D, Gupta A, **Singh S,** Ram J. Safety and efficacy of dexamethasone implant along with phacoemulsification and intraocular lens implantation in children with juvenile idiopathic arthritis associated uveitis. **Indian J Ophthalmol.** 2019 Jan;67(1):69-74. doi: 10.4103/ijo.IJO_713_18.

361. Williams V, Rawat A, Vignesh P, Shandilya JK, Gupta A, **Singh S.** Fc-gamma receptor expression profile in a North-Indian cohort of pediatric-onset systemic lupus erythematosus: An observational study. **Int J Rheum Dis.** 2019 Mar;22(3):449-457. doi: 10.1111/1756-185X.13403.

360. Vijayvergiya R, Jindal AK, Pilania RK, Suri D, Gupta A, Sharma A, Sinha SK, Singhal M, Bahl A, **Singh S.** Complex interventions of abdominal aorta and its branches in children with Takayasu arteritis: Clinical experience from a tertiary care center in north-west India. **Int J Rheum Dis.** 2019 Jan;22(1):140-151. doi: 10.1111/1756-185X.13420.

2018

359. Singhal M, Vignesh P, Khandelwal N, **Singh S.** Calcified Saccular Coronary Artery Aneurysm of Kawasaki Disease. **J Clin Rheumatol.** 2018 Nov 29. doi: 10.1097/RHU.0000000000000953.



358. Sharma D, Somasekhara-Aradhya A, Vignesh P, Saikia UN, **Singh S.** Serositis in a child with scleredema of Buschke: an unusual association and improvement following glucocorticoids. **Scand J Rheumatol.** 2018 Jul;47(4):342-343.

357. Johnson N, Singh A, **Singh S.** Recent advances in Pediatric Rheumatology: April to June 2018. **Int J Rheum Dis.** 2018 Oct;21(10):1866-1868. doi: 10.1111/1756-185X.13432.

356. Singh A, Johnson N, **Singh S.** Recent advances in pediatric rheumatology: January to March 2018. **Int J Rheum Dis.** 2018 Oct;21(10):1863-1865. doi: 10.1111/1756-185X.13437.

355. Jindal AK, Indla R, Pilania RK, **Singh S.** Non-exudative conjunctival injection with limbal sparing: a pathognomonic clinical sign of Kawasaki disease. **J Clin Rheumatol.** 2018 Sep 21. doi: 10.1097/RHU.0000000000000883

354. Vignesh P, Suri D, Singhal M, Kakkar N, **Singh S.** Extensive oral scarring and bilateral subclavian artery stenosis in Pediatric-onset Behçet's disease. **J Clin Rheumatol.** (Accepted for publication).

353. Pilania RK, Mishra P, Guleria S, Singhal M, Gupta A, **Singh S.** Kawasaki disease presenting as fever and urinary tract infection. **J Clin Rheumatol.** 2018 Dec 21. doi: 10.1097/RHU.0000000000000955.

352. Pilania RK, Arora A, Agarwal A, Jindal AK, Aggarwal K, Krishnan G, Suri D, Gupta A, **Singh S,** Gupta V. Linezolid-induced mitochondrial toxicity presenting as retinal nerve fiber layer microcysts and optic and peripheral neuropathy in a patient with chronic granulomatous disease. **Retin Cases Brief Rep.** 2018 Jul 25. doi: 10.1097/ICB.0000000000000777. [Epub ahead of print]

351. Rawat A, Mathew B, Pandiarajan V, Jindal A, Sharma M, Suri D, Gupta A, Goel S, Karim A, Saikia B, Minz RW, Imai K, Nonoyama S, Ohara O, Giliani SC, Notarangelo LD, Chan KW, Lau YL, **Singh S.** Clinical and molecular features of X-linked hyper IgM syndrome - An experience from North India. **J Clin Immunol.** 2018 Oct;195:59-66. doi: 10.1016/j.clim.2018.07.013. Epub 2018 Jul 25.

350. Pilania RK, Suri D, Jindal AK, Kumar N, Sharma A, Sharma P, Guleria S, Rawat A, Ahluwalia J, **Singh S.** Lupus anticoagulant hypoprothrombinemia syndrome associated with systemic lupus erythematosus in

children: report of two cases and systematic review of the literature. **Rheumatol Int.** 2018 Oct;38(10):1933-1940. doi: 10.1007/s00296-018-4127-9. Epub 2018 Aug 11. Review.

349. Basha A, Rawat A, Jindal AK, Gupta A, Anand S, Garg R, Minz RW, **Singh S.** Autoantibody profile in children with Kawasaki disease on long-term follow-up: A prospective study from North India. **Int J Rheum Dis.** 2018 Aug 30. doi: 10.1111/1756-185X.13372. [Epub ahead of print]

348. Jindal AK, Laishram D, **Singh S.** Acrodermatitis-Like Rash in Kawasaki Disease. **J Pediatr.** 2018 Apr 5. pii: S0022-3476(18)30306-8. doi: 10.1016/j.jpeds.2018.02.051. [Epub ahead of print]

347. Pilia RK, Bhattarai D, **Singh S.** Controversies in diagnosis and management of Kawasaki disease. **World J Clin Pediatr.** 2018 Feb 8;7(1):27-35. doi: 10.5409/wjcp.v7.i1.27.

346. Pilia RK, Bhattarai D, **Singh S.** Recent advances in pediatric rheumatology: October - December 2017. **Int J Rheum Dis.** 2018 May;21(5):1138-1141. doi: 10.1111/1756-185X.13280.

345. Pilia RK, Bhattarai D, **Singh S.** Recent advances in pediatric rheumatology: July to September 2017. **Int J Rheum Dis.** 2018 May;21(5):1135-1137. doi: 10.1111/1756-185X.13275. Epub 2018 Apr 2

344. Tiewsoh K, Sharma D, Jindal AK, Bhisikar S, Suri D, **Singh S.** Acute Kidney Injury in Kawasaki Disease: Report of 3 Cases From North India and a Brief Review of Literature. **J Clin Rheumatol.** 2018 Jun;24(4):231-234. doi: 10.1097/RHU.0000000000000687.

343. Vignesh P, **Singh S.** Perianal skin peeling: An important clinical pointer toward Kawasaki disease. **Eur J Rheumatol.** 2018 Mar;5(1):81-82. doi: 10.5152/eurjrheum.2017.17010

342. Jindal AK, Guleria S, Pilia RK, Bishnoi A, Vinay K, Dogra S, Suri D, Rawat A, Singh S. Inverse Gottron papules in juvenile dermatomyositis: an under recognized clinical entity. **Rheumatol Int.** 2018 May 2. doi: 10.1007/s00296-018-4038-9. [Epub ahead of print]

341. Goel S, Sahu S, Minz RW, Singh S, Suri D, Oh YM, Rawat A, Sehgal S, Saikia B. STAT3-Mediated Transcriptional Regulation of Osteopontin in STAT3 Loss-of-Function Related Hyper IgE Syndrome. **Front Immunol.** 2018 May 17;9:1080. doi: 10.3389/fimmu.2018.01080

340. Gennery AR, Abraham RS, Torgerson TR, Etzioni A, Cant AJ, Meyts I, Chipeta J, Bousfiha AA, Dieye TD, Condino-Neto A, Espinosa F, Besrodnik L, Lau YL, **Singh S**, Chan GCF, Orange JS; European Society for Immunodeficiencies; Clinical Immunology Society; African Society for Immunodeficiencies; Latin American Society for Immunodeficiencies; Asia Pacific Society for Immunodeficiencies. The International Alliance of Primary Immune Deficiency Societies. **J Clin Immunol.** 2018 Jun 5. doi: 10.1007/s10875-018-0517-8. [Epub ahead of print]

339. Suri D, Jindal AK, Gupta A, Gupta A, Bajgai P, Singh R, Singh MP, Minz RW, Arora S, **Singh S.** Cytomegalovirus Disease in HIV-infected Children-A Single-Centre Clinical Experience over 23 Years. **J Trop Pediatr.** 2018 Jun 1;64(3):215-224. doi: 10.1093/tropej/fmx052.

338. Guleria S, Jindal AK, Pandiarajan V, Singh MP, **Singh S.** Dengue-Triggered Kawasaki Disease: A Report of 2 Cases. **J Clin Rheumatol.** 2018 Feb 7. doi: 10.1097/RHU.0000000000000704. [Epub ahead of print]

337. Didel S, Suri D, Rawat A, **Singh S.** Functional mannose binding lectin levels in patients with pediatric onset systemic lupus erythematosus in remission. **Int J Rheum Dis.** 2018 Jan 4. doi: 10.1111/1756-185X.13249. [Epub ahead of print]

336. Guleria S, Pilia RK, **Singh S.** Recent advances in pediatric rheumatology: April to June 2017. **Int J Rheum Dis.** 2018 Feb;21(2):546-548

335. Singh S, Kumar A, Gupta A. Recent advances in pediatric rheumatology: July-September 2016. **Int J Rheum Dis.** 2018 Feb;21(2): 541-543.

334. Singh S, Jindal AK, Pilia RK. Diagnosis of Kawasaki disease. **Int J Rheum Dis.** 2018 Jan;21(1):36-44

333. Singh S, Gupta A, Jindal AK, Gupta A, Suri D, Rawat A, Vaidya PC, Singh M. Pulmonary presentation of Kawasaki disease-A diagnostic challenge. **Pediatr Pulmonol.** 2018 Jan;53(1):103-107.

332. Gupta A, Kumar A, Singh S. Recent advances in pediatric rheumatology: October to December 2016. **Int J Rheum Dis.** 2018 Feb;21(2):544-545.

331. Kawasaki T, Singh S. Kawasaki disease - the journey over 50 years: 1967-2017. **Int J Rheum Dis.** 2018 Jan;21(1):7-9. doi: 10.1111/1756-185X.13215. Epub 2017 Nov 8.

330. Guleria S, Pilia RK, Singh S. Recent advances in pediatric rheumatology: April to June 2017. **Int J Rheum Dis.** 2018 Feb;21(2):546-548

329. Gopalan K, Singh S, Vignesh P, Gupta A, Rohit M, Attri SV. Carotid intima-media thickness and lipid profile in children with Kawasaki disease: a single-center follow-up study after a mean duration of 6.9 years. **J Clin Rheumatol.** 2018 Oct 1;24(7):385-9. doi: 10.1097/RHU.0000000000000754.

2017

328. Kumar P, Suri D, Vignesh P, Verma Attri S, Kumar Bhalla A, Singh S. Metabolic Abnormalities and Clinical Lipodystrophy in Children With Human Immunodeficiency Virus Infection: A Report From a Tertiary Care Center in India. **Pediatr Infect Dis J.** 2017 Dec;36(12):e313-e316.

327. Sharma D, Gupta A, Goel S, Sharma M, Rawat A, Singh S. Large BTK gene mutation in a child with X-linked agammaglobulinemia and polyarthritis. **J Clin Immunol.** 2017 Oct;183:109-111.

326. Aghamohammadi A, Abolhassani H, Kutukculer N, Wassilak SG, Pallansch MA, Kluglein S, Quinn J, Sutter RW, Wang X, Sanal O, Latysheva T, Ikinciogullari A, Bernatowska E, Tuzankina IA, Costa-Carvalho BT, Franco JL, Somech R, Karakoc-Aydiner E, Singh S, Bezrodnik L, Espinosa-Rosales FJ, Shcherbina A, Lau YL, Nonoyama S, Modell F, Modell V; JMF Centers Network Investigators and Study Collaborators, Barbouche MR, McKinlay MA. Patients with Primary Immunodeficiencies Are a Reservoir of Poliovirus and a Risk to Polio Eradication. **Front Immunol.** 2017 Jun 13;8:685. doi: 10.3389/fimmu.2017.00685. eCollection 2017.

325. Gupta K, Rawat A, Agrawal P, Jindal A, Nada R, Saikia B, Chan KW, Lau YL, Minz RW, Singh S. Infectious and non-infectious complications in primary immunodeficiency disorders: an autopsy study from North India. **J Clin Pathol.** 2017 Sep 28. pii: jclinpath-2017-204708. doi: 10.1136/jclinpath-2017-204708. [Epub ahead of print]

324. Vignesh P, Gupta A, Suri D, Chatterjee D, Saikia UN, Trehan A, Singh S. A young child with fever, alopecia, and skin nodules: a clinicopathological conference. **Arthritis Care Res (Hoboken).** 2017 Nov 21. doi: 10.1002/acr.23476. [Epub ahead of print]

323. Singhal M, Singh S, Gupta P, Sharma A, Khandelwal N, Burns JC. Computed Tomography Coronary Angiography for Evaluation of Children With Kawasaki Disease. **Curr Probl Diagn Radiol.** 2017 Oct 23. pii: S0363-0188(17)30130-5. doi: 10.1067/j.cpradiol.2017.09.013. [Epub ahead of print]

322. Sharma D, Jindal AK, Rawat A, Singh S. Approach to a Child with Primary Immunodeficiency Made Simple. **Indian Dermatol Online J.** 2017 Nov-Dec;8(6):391-405.

321. Tiewsoh K, Sharma D, Jindal AK, Bhisikar S, Suri D, **Singh S**. Acute Kidney Injury in Kawasaki Disease: Report of 3 Cases from North India and a Brief Review of Literature. **J Clin Rheumatol**. 2017 Dec 29. doi: 10.1097/RHU.0000000000000687.
320. **Singh S**, Jindal AK. Fifty Years of Kawasaki Disease - A Tribute to Dr Tomisaku Kawasaki. **Indian Pediatr**. 2017 Dec 15;54(12):1037-1039
319. **Singh S**, Guleria S, Piloni RK. [Recent advances in Pediatric Rheumatology: January to March 2017](#). **Int J Rheum Dis**. 2017 Aug;20(8):1036-1038.
318. Jindal AK, Ahluwalia J, Sharma A, Dhawan S, Tiewsoh K, Suri D, Sinha A, Saxena A, **Singh S**. [HIV-infected children with hepatomegaly and ascites: is there something more than an infection?](#) **AIDS**. 2017 Mar 27;31(6):870-872.
317. Phuong LK, Bonetto C, Buttery J, Pernus YB, Chandler R, Felicetti P, Goldenthal KL, Kucuku M, Monaco G, Pahud B, Shulman ST, Top KA, Trotta F, Ulloa-Gutierrez R, Varricchio F, de Ferranti S, Newburger JW, Dahdah N, **Singh S**, Bonhoeffer J, Burgner D; Brighton Collaboration Kawasaki Disease (KD) Working Group. [Kawasaki disease and immunisation: A systematic review](#). **Vaccine**. 2017 Mar 27;35(14):1770-1779.
316. Khullar G, Vignesh P, Lau YL, Rudramurthy SM, Rawat A, De D, Handa S, **Singh S**. [Chronic Mucocutaneous Candidiasis](#). **J Allergy Clin Immunol Pract**. 2017 Jul - Aug;5(4):1119-1121.
315. Nada R, Matthews JL, Bhattad S, Gupta A, **Singh S**. [Necrotizing Polyarteritis Nodosa-like Vasculitis in a Child with Systemic Lupus Erythematosus](#). **Indian Pediatr**. 2017 Feb 15;54(2):139-144.
314. Saikia B, Goel S, Suri D, Minz RW, Rawat A, **Singh S**. [Novel Mutation in SH2 Domain of STAT3 \(p.M660T\) in Hyper-IgE Syndrome with Sterno-Clavicular and Paravertebral Abscesses](#). **Indian J Pediatr**. 2017 Jun; 84(6): 494-495.
313. Kaur S, Aggarwal K, Agarwal A, Suri D, Gupta A, Singh R, Bansal R, **Singh S**, Singh N, Gupta A, Gupta V. [Clinical Course and Outcomes of Pediatric Tubercular Uveitis in North India](#). **Ocul Immunol Inflamm**. 2017 Mar 20:1-6.
312. Suri D, Bhattad S, Sharma A, Gupta A, Rawat A, Sehgal S, **Singh S**, Gupta S [Serial Serum Immunoglobulin G \(IgG\) Trough Levels in Patients with X-linked Agammaglobulinemia on Replacement Therapy with Intravenous Immunoglobulin: Its Correlation with Infections in Indian Children](#). **J Clin Immunol**. 2017 Apr;37(3):311-318.
311. Hussain A, Rawat A, Jindal AK, Gupta A, **Singh S**. [Autoantibodies in children with juvenile dermatomyositis: A single centre experience from North-West India](#). **Rheumatol Int**. 2017 May;37(5):807-812.
310. Rawat A, Vignesh P, Sharma A, Shandilya JK, Sharma M, Suri D, Gupta A, Gautam V, Ray P, Rudramurthy SM, Chakrabarti A, Imai K, Nonoyama S, Ohara O, Lau YL, **Singh S**. [Infection Profile in Chronic Granulomatous Disease: a 23-Year Experience from a Tertiary Care Center in North India](#). **J Clin Immunol**. 2017 Apr;37(3):319-328.
309. Jindal AK, Rawat A, Suri D, Sharma M, Shandilya JK, Goel S, Sodhi KS, **Singh S**. [Severe Aspergillus Pneumonia and Pulmonary Artery Hypertension in a Child with Autosomal Recessive Chronic Granulomatous Disease and Selective IgA Deficiency](#). **J Clin Immunol**. 2017 May;37(4):333-335.
308. Sharma D, Guleria S, Suri D, Rawat A, Garg R, **Singh S**. [A child with X-linked agammaglobulinemia and Kawasaki disease: an unusual association](#). **Rheumatol Int**. 2017 Aug;37(8):1401-1403.

- 307.** Vijayvergiya R, Bhattad S, Varma S, Singhal M, Gordon J, **Singh S.** [Presentation of missed childhood Kawasaki disease in adults: Experience from a tertiary care center in north India.](#) *Int J Rheum Dis.* **2017** Apr 5. doi: 10.1111/1756-185X.13073. [Epub ahead of print]
- 306.** Parihar M, **Singh S,** Vignesh P, Gupta A, Rohit M. [Mid-term Risk for Subclinical Atherosclerosis and Chronic Myocarditis in Children with Kawasaki Disease and Transient Coronary Abnormalities.](#) *Pediatr Cardiol.* **2017** Aug;38(6):1123-1132.
- 305.** Jindal AK, Gupta A, Dogra S, Rawat A, Suri D, Ahluwalia J, **Singh S.** [Thrombocytopenia Associated with Localized Scleroderma: Report of Four Pediatric Cases and Review of the Literature.](#) *Pediatr Dermatol.* **2017** Jul; 34(4):e174-e178. doi: 10.1111/pde.13159
- 304.** Pilania RK, Dhawan SR, Mathew JL, **Singh S,** Sodhi KS, Singh M. [ANCA-associated Vasculitis Presenting as Severe Pulmonary Hypertension and Right Heart Failure.](#) *Indian J Pediatr.* **2017** Jun 2. doi: 10.1007/s12098-017-2379-0. [Epub ahead of print]
- 303.** Jindal AK, **Singh S.** [Dryness at Fingertips: Is It a Premonitory Sign of Skin Peeling in Kawasaki Disease?](#) *J Clin Rheumatol.* **2017** Aug;23(5):286.
- 302.** Jindal AK, Pilania RK, Rawat A, **Singh S.** [Primary Immunodeficiency Disorders in India-A Situational Review.](#) *Front Immunol.* **2017** Jun 19;8:714.
- 301.** Luk ADW, Lee PP, Mao H, Chan KW, Chen XY, Chen TX, He JX, Kechout N, Suri D, Tao YB, Xu YB, Jiang LP, Liew WK, Jirapongsananuruk O, Daengsuwan T, Gupta A, **Singh S,** Rawat A, Abdul Latiff AH, Lee ACW, Shek LP, Nguyen TVA, Chin TJ, Chien YH, Latiff ZA, Le TMH, Le NNQ, Lee BW, Li Q, Raj D, Barbouche MR, Thong MK, Ang MCD, Wang XC, Xu CG, Yu HG, Yu HH, Lee TL, Yau FYS, Wong WH, Tu W, Yang W, Chong PCY, Ho MHK, Lau YL. [Family History of Early Infant Death Correlates with Earlier Age at Diagnosis But Not Shorter Time to Diagnosis for Severe Combined Immunodeficiency.](#) *Front Immunol.* **2017** Jul 12;8:808.
- 300.** Jindal AK, Rawat A, Sharma A, Dogra S, Suri D, **Singh S.** [Psoriasis: An Unusual Autoimmune Manifestation in a Boy with Common Variable Immunodeficiency.](#) *Indian Dermatol Online J.* **2017** Jul-Aug;8(4):292-294.
- 299.** Vignesh P, Rawat A, Sharma M, **Singh S.** [Complement in autoimmune diseases.](#) *Clin Chim Acta.* **2017** Feb;465:123-130
- 298.** Dhawan SR, Vaidya PC, Suri D, **Singh S,** Singhi PD. [Infantile Kawasaki disease presenting as acute meningoencephalitis.](#) *Int J Rheum Dis.* **2017** Jul;20(7):870-874
- 297.** Kumar A, Gupta A, Suri D, Gupta A, **Singh S.** [The Expanding Spectrum of Gottron Papules in Juvenile Dermatomyositis.](#) *Indian J Pediatr.* **2017** Mar;84(3):242-243.
- 296.** Jindal AK, Pandiarajan V, Khubchandani R, Kamath N, Sabui T, Mondal R, Pal P, **Singh S.** The emergence of Kawasaki disease in India and China. *Glob Cardiol Sci Pract.* **2017** Oct 31;2017(3):e201721. doi: 10.21542/gcsp.2017.21.
- 295.** Suri D, Bhattad S, Gupta A, Trehan A, Bansal D, Rajwanshi A, Das A, Rawat A, **Singh S.** [Malignancies in Children with Human Immunodeficiency Virus Infection - Our Experience at Chandigarh, North India.](#) *J Trop Pediatr.* **2017** Jun 1;63(3):210-216. doi: 10.1093/tropej/fmw074.
- 294.** Vaidya PC, Narayanan K, Suri D, Rohit MK, Gupta A, **Singh S,** et al. Pulmonary presentation of Kawasaki disease: an unusual occurrence. *Int J Rheum Dis.* **2017** Dec;20(12):2227-2229. doi: 10.1111/1756-185X.12815. Epub 2015 Dec 14.

293. Aggarwal R, Gupta A, Naru J, Berka N, Nanda N, Suri D, **Singh S**. [HLA-DRB1 in Henoch-Schönlein purpura: A susceptibility study from North India](#). **Hum Immunol**. 2016 Jul;77(7):555-8.
292. **Singh S**, Bhattad S. [Kawasaki disease incidence at Chandigarh, North India, during 2009-2014](#). **Rheumatol Int**. 2016 Oct;36(10):1391-7
291. **Singh S**, Rawat A, Suri D, Gupta A, Garg R, Saikia B, Minz RW, Sehgal S, Chan KW, Lau YL, Kamae C, Honma K, Nakagawa N, Imai K, Nonoyama S, Oshima K, Mitsui N, Ohara O. [X-linked agammaglobulinemia: Twenty years of single-center experience from North West India](#). **Ann Allergy Asthma Immunol**. 2016 Oct;117(4):405-411.
290. Suri D, Sharma A, Bhattad S, Rawat A, Arora S, Minz RW, **Singh S**. [Arthritis in childhood human immunodeficiency virus infection predominantly associated with human leukocyte antigen B27](#). **Int J Rheum Dis**. 2016 Oct;19(10):1018-1023.
289. Phuong LK, Bonetto C, Buttery J, Pernus YB, Chandler R, Goldenthal KL, Kucuku M, Monaco G, Pahud B, Shulman ST, Top KA, Ulloa-Gutierrez R, Varricchio F, de Ferranti S, Newburger JW, Dahdah N, **Singh S**, Bonhoeffer J, Burgner D. [Kawasaki disease and immunisation: Standardised case definition & guidelines for data collection, analysis](#). **Vaccine**. 2016 Dec 12;34(51):6582-6596.
288. Vignesh P, Rawat A, **Singh S**. [An Update on the Use of Immunomodulators in Primary Immunodeficiencies](#). **Clin Rev Allergy Immunol**. 2016 Nov 21. [Epub ahead of print]
287. Gupta A, **Singh S**. [Kawasaki disease for dermatologists](#). **Indian Dermatol Online J**. 2016 Nov-Dec;7(6):461-470.
286. Vignesh P, Rawat A, Kumar A, Suri D, Gupta A, Lau YL, Chan KW, **Singh S**. [Chronic Granulomatous Disease Due to Neutrophil Cytosolic Factor \(NCF2\) Gene Mutations in Three Unrelated Families](#). **J Clin Immunol**. 2016 Dec 29. doi: 10.1007/s10875-016-0366-2. [Epub ahead of print]
285. **Singh S**, Agarwal S, Bhattad S, Gupta A, Suri D, Rawat A, et al. Kawasaki disease in infants below 6 months: a clinical conundrum? **Int J Rheum Dis**. 2016; 19(9):924-8
284. **Singh S**, Sharma D, Suri D, Gupta A, Rawat A, Rohit MK. Infliximab is the new kid on the block in Kawasaki disease: a single-centre study over 8 years from North India. **Clin Exp Rheumatol**. 2016;34(3 Suppl 97):S134-138.
283. **Singh S**, Bhattad S. Kawasaki disease incidence at Chandigarh, North India, during 2009-2014. **Rheumatol Int**. 2016; 36(10):1391-7.
282. **Singh S**, Kawasaki T. Kawasaki Disease in India, Lessons Learnt Over the Last 20 Years. **Indian Pediatr**. 2016;53(2):119-24.
281. Abujam B, Gupta A, Suri D, Rawat A, **Singh S**. Trends and predictors of mortality in childhood onset lupus in a single North-Indian centre over 23 years: a retrospective study. **Clin Exp Rheumatol**. 2016;34(3):554-9.
280. Reddy M, **Singh S**, Rawat A, Sharma A, Suri D, Rohit MK. Pro-brain natriuretic peptide (ProBNP) levels in North Indian children with Kawasaki disease. **Rheumatol Int**. 2016;36(4):551-9.
279. Aggarwal R, Gupta A, Naru J, Berka N, Nanda N, Suri D, **Singh S**. HLA-DRB1 in Henoch-Schönlein purpura: A susceptibility study from North India. **Human Immunology** 2016;77(7):555-8.

- 278.** Ahluwalia J, Sreedharanunni S, Kumar N, Masih J, Bose SK, Varma N, Varma S, **Singh S**. Thrombotic Primary Antiphospholipid Syndrome: the profile of antibody positivity in patients from North India. **Int J Rheum Dis**. 2016;19(9):903–12.
- 277.** **Singh S**, Rawat A, Suri D, Gupta A, Garg R, Saikia B, et al. X-linked agammaglobulinemia: Twenty years of single-center experience from North West India. **Ann Allergy Asthma Immunol**. 2016;117(4):405–11.
- 276.** Sharma S, Saikia B, Goel S, Rawat A, Minz RW, Suri D, Chhabra S, **Singh S**. TH17 Cells in STAT3 Related Hyper-IgE Syndrome. *Indian Journal of Pediatrics* 2016;83(10):1104–8.
- 275.** Sharma A, Gupta A, Mitra S, Nada R, Bhattad S, Singh S. Systemic Juvenile Idiopathic Arthritis with Amyloidosis: An Uncommon Complication with a Favourable Outcome. *Indian J Pediatr*. 2016;83(5):477–8.
- 274.** Suri D, Sharma A, Bhattad S, Rawat A, Arora S, Minz RW, **Singh S**. Arthritis in childhood human immunodeficiency virus infection predominantly associated with human leukocyte antigen B27. **Int J Rheum Dis**. 2016;26: doi: 10.1111/1756-185X.12947. [Epub ahead of print]
- 273.** Kumar A, **Singh S**. BCG site reactivation in a 9 year old boy with Kawasaki disease. **Arthritis Rheumatol**. 2016;68(8):2026
- 272.** Kumar A, Gupta A, Rawat A, Ahuja C, Suri D, **Singh S**. Brain Abscess in a Child with Leukocyte Adhesion Defect: An Unusual Association. **J Clin Immunol**. 2016;36(7):624–6.
- 271.** Vignesh P, Bhattad S, Singhal M, **Singh S**. A 5-year-old boy with only fever and giant coronary aneurysms: the enigma of Kawasaki disease? **Rheumatol Int**. 2016;36(8):1191–3.
- 270.** Bhattad S, Vignesh P, Rawat A, Suri D, Gupta A, Vyas S, **Singh S**. Spondylodiscitis in a Boy with X-linked Agammaglobulinemia: an Unusual Occurrence. **J Clin Immunol**. 2016;36(4):360–2.
- 269.** **Singh S**, Gupta S. Primary Immunodeficiency Diseases: Need for Awareness and Advocacy in India. **Indian J Pediatr**. 2016;83(4):328–30.
- 268.** Vignesh P, **Singh S**. Recent advances in pediatric rheumatology: April - June 2015. **Int J Rheum Dis**. 2016;23: doi: 10.1111/1756-185X.12835. [Epub ahead of print]
- 267.** Suri D, Rawat A, **Singh S**. X-linked Agammaglobulinemia. **Indian J Pediatr**. 2016;83(4):331–7.
- 266.** Sharma A, **Singh S**. Recent advances in pediatric rheumatology: January-March 2015. **Int J Rheum Dis**. 2016;18: doi: 10.1111/1756-185X.12829. [Epub ahead of print]
- 265.** Rawat A, Bhattad S, **Singh S**. Chronic Granulomatous Disease. **Indian J Pediatr**. 2016;83(4):345–53.
- 264.** Ramanan AV, **Singh S**. Editorial: Pediatric Rheumatology has Come of Age in India. **Indian J Pediatr**. 2016;83(1):44–6.
- 263.** **Singh S**, Bhattad S, Gupta A, Suri D, Rawat A, Rohit M. Mortality in children with Kawasaki disease: 20 years of experience from a tertiary care centre in North India. **Clin Exp Rheumatol**. 2016;34 (3 Suppl 97):S129-133.
- 262.** Hans R, Sharma RR, Marwaha N, Suri D, Kumar R, Gupta A, **Singh S**. Efficacy and safety of therapeutic plasma exchange by using apheresis devices in pediatric atypical hemolytic uremic syndrome patients. **J Clin Apheresis**. 2016;31(4):381–7.

261. Ahluwalia J, Sreedharanunni S, Kumar N, Masih J, Bose SK, Varma N, Varma S, **Singh S.** Thrombotic Primary Antiphospholipid Syndrome: the profile of antibody positivity in patients from North India. **International Journal of Rheumatic Diseases** 2016; 19(9):903-12

Prakash J, **Singh S**, Gupta A, Bharti B, Bhalla AK. Sociodemographic profile of children with Kawasaki disease in North India. **Clin Rheumatol.** 2016 Mar;35(3):709–13

260. Rawat A, Vellarikkal SK, Verma A, Jayarajan R, Gupta A, **Singh S**, Chopra A, Kumar R, Scaria V, Sivasubbu S. Case Report: Whole exome sequencing identifies a novel frameshift insertion c. 1325dupT (p. F442fsX2) in the tyrosine kinase domain of BTK gene in a young Indian individual with X-linked agammaglobulinemia. Version 2. **F1000Res.** 2016 Nov 14 [revised 2017 Aug 31]; 5:2667. doi: 10.12688/f1000research.9472.2. eCollection 2016.

259. Bhattad SB, Gupta A, Suri D, Sharma D, Sinha A, **Singh S.** Piriformis Syndrome in a Young Child - An Unusual Clinical Entity. **Indian Journal of Pediatrics** 2016;83(4):361-2.

258. Rawat A, Imai K, Suri D, Gupta A, Bhisikar S, Saikia B, Minz RW, Sehgal S, **Singh S.** Ataxia Telangiectasia Masquerading as Hyper IgM Syndrome. **Indian Journal of Pediatrics** 2016 ;83(3):270-1

2015

257. Bhattad S, Rawat A, Gupta A, Suri D, Garg R, de Boer M, Kuijpers TW, **Singh S.** Early Complement Component Deficiency in a Single-Centre Cohort of Pediatric Onset Lupus. **J Clin Immunol.** 2015;35(8):777–85

256. **Singh S**, Newburger J, Kuijpers T, Burgner D. Management of Kawasaki Disease in resource limited setting. **Pediatric Infectious Disease Journal** 2015;34(1):94-6.

255. **Singh S**, Vignesh P, Burgner D. The epidemiology of Kawasaki Disease – a global update. **Archives of Disease in Childhood** 2015;100(11):1084-8

254. **Singh S**, Bhattad S, Gupta A, Suri D, Rawat A. Mortality in children with Kawasaki disease: 20 years of experience from a tertiary care centre in North India. **Clinical and Experimental Rheumatology** 2016 May-Jun;34(3 Suppl 97):S129-33. Epub 2015 Nov 17

253. Narsaria P, **Singh S**, Gupta A, Khullar M, Bhalla A. Lipid profile and fat patterning in children at a mean of 8.8 years after Kawasaki disease: a study from Northern India. **Clinical and Experimental Rheumatology** 2015; 33(2 Suppl 89):S-171-5.

252. **Singh S**, Abujam B, Gupta A, Suri D, Rawat A, Saikia B, Minz RW, Joshi K, Nada R. Childhood lupus nephritis in a developing country—24 years' single-center experience from North India. **Lupus** (2015) 24, 641–647.

251. Mathew JL, **Singh S**, Sankar J. Is Antibiotic Exposure Associated With Newly Diagnosed Juvenile Idiopathic Arthritis? **Indian Pediatr.** 2015;52(10):883–8

250. Rawat A, **Singh S.** Biomarkers for Diagnosis of Kawasaki Disease. **Indian Pediatrics** 2015; 52: 473-474.

249. Suri D, Abujam B, Gupta A, Rawat A, Saikia B, Minz RW, Gupta V, Bansal R, Kaushik S, **Singh S.** Optic nerve involvement in childhood onset systemic lupus erythematosus: Three cases and a review of the literature. **Lupus** 2015;25(1):93-6.

248. **Singh S**, Bhattad S, Sharma D, Phillip S. Recent Advances in Kawasaki Disease - Proceedings of the 3rd Kawasaki Disease Summit, Chandigarh, 2014. **Indian Journal of Pediatrics** 2015; 83(1):47-52.

247. Sharma D. **Singh S.** Kawasaki disease- a common childhood Vasculitis. **Indian Journal of Rheumatology** 2015; 10: S78-S83.

246. Singh S, Sharma A, Jiao FY. Kawasaki disease: issues in diagnosis and treatment. A developing country perspective. **Indian Journal of Pediatrics** 2015; 83(2):140-5.

245. Madkaikar M, Italia K, Gupta M, Chavan S, Mishra A, Rao M, Mhatre S, Desai M, Manglani M, **Singh S**, Suri D, Aggarwal A, Ghosh K. Molecular characterization of leukocyte adhesion deficiency-I in Indian patients: Identification of 9 novel mutations. **Blood Cells Molecules Diseases** 2015; 54: 217–223.

244. Madkaikar M, Italia K, Gupta M, Desai M, Aggarwal A, **Singh S**, Suri D, Mishra A, Chavan S, Ghosh K, Sarangal R, Dogra S. Leukocyte Adhesion Deficiency-I with a Novel Intronic Mutation Presenting with Pyoderma Gangrenosum- Like Lesions. **Journal of Clinical Immunology** 2015; 35:431–434.

243. Nada R, Gupta A, Kang M, Rawat A, Sood A, Ahluwalia J, **Singh S**. Hepatic mass and coagulopathy in a 10 years boy with fever. **Arthritis Rheumatism** 2015;67(7):1977

242. Gupta K, Suri D, Sharma A, Rawat A, **Singh S**. An infant with prolonged fever. Clinicopathological Conference. **Indian Pediatrics** 2015; 52: 601-606.

241. Agarwal S, Gupta A, Suri D, Rawat A, **Singh S**. Proximal Muscle Weakness in a Child with Kawasaki Disease. **Indian Journal of Pediatrics** 2015; 82(9):866

240. Agarwal S, Mulkutkar S, Suri D, **Singh S**, Gupta A. Retinal Vasculitis in Kawasaki Disease. **Indian Journal of Pediatrics** 2015;82(12):1183-4.

239. Bhattad S, Gupta A, Suri D, **Singh S**, Saikia B, Minz RW, Sodhi KS. Budd–Chiari Syndrome in a Child With Leukocyte Adhesion Deficiency—A Rare Association. **Pediatr Blood Cancer** 2015;62(12):2244

238. Sharma D, **Singh S**. Recent advances in Pediatric Rheumatology: October-December 2014. **Int J Rheum Dis.** 2016 Nov;19(11):1197-1199. doi: 10.1111/1756-185X.12720. Epub 2015 Jul 22.

237. Singh S, Bhattad D. Recent advances in Pediatric Rheumatology: July-September 2014. **International Journal of Rheumatic Diseases** 2015 ;18(5):568-9.

2014

236. Singh S, Aulakh R, Kawasaki T. Kawasaki disease and the emerging coronary artery disease epidemic in India: is there a correlation? **Indian Journal of Pediatrics** 2014; 81(4):328-32.

235. Burns JC, Herzog L, Fabri O, Tremoulet AH, Rodó X, Uehara R, Burgner D, Bainto E, Pierce D, Tyree M, Cayan D; **Singh S**.....(Kawasaki Disease Global Climate Consortium). Seasonality of Kawasaki disease: a global perspective. **PLoS One** 2013 Sep 18;8(9):e74529. doi: 10.1371/journal.pone.0074529. eCollection 2013. PMID: 24058585.

234. Gupta A, **Singh S**, Gupta A, Suri D, Rohit M. Aortic stiffness studies in children with Kawasaki disease: preliminary results from a follow-up study from North India. **Rheumatology International** 2014; 34(10):1427-32.

233. Suthar R, **Singh S**, Bhalla AK, Attri SV. Pattern of subcutaneous fat during follow-up of a cohort of North Indian children with Kawasaki disease: a preliminary study. **International Journal of Rheumatic Diseases** 2014; 17(3):304-12.

232. Meena RS, Kumar RM, Gupta A, **Singh S**. Carotid intima-media thickness in children with Kawasaki disease. **Rheumatology International** 2014; 34(8):1117-21

231. George M, Ahluwalia J, Gupta A, **Singh S**. Antiphospholipid antibodies in children with Kawasaki Disease - a preliminary study from North India. **Rheumatology International** 2014; 34(6):849-50.

- 230.** Gupta A, **Singh S**, Rohit M, Suri D, Rawat A, Narula N. Giant coronary aneurysms in Kawasaki Disease. **Indian Journal of Pediatrics** 2014; 81(4):401-2.
- 229.** Singh S, Suri D, Aulakh R, Gupta A, Rawat A, Kumar RM. Mortality in children with juvenile dermatomyositis: two decades of experience from a single tertiary care centre in North India. **Clinical Rheumatology** 2014 ;33(11):1675-9.
- 228.** Rawat A, **Singh S**, Suri D, Gupta A, Saikia B, Minz RW, et al. Chronic granulomatous disease: two decades of experience from a tertiary care centre in North West India. **Journal of Clinical Immunology** 2014; 34(1):58-67.
- 227.** Ahluwalia J, **Singh S**, Naseem S, Suri D, Rawat A, Gupta A, Masih J, Bose S. Antiphospholipid antibodies in children with systemic lupus erythematosus: a long-term clinical and laboratory follow-up status study from northwest India. **Rheumatology International** 2014; 34(5):669-73.
- 226.** Saikia B, Suri D, Goel S, Rawat A, Minz RW, Gupta A, Sharma S, Ohara O, Imai K, Nonoyama S, Sehgal S, **Singh S**. Hyper-IgE syndrome with a novel STAT3 mutation-a single center study from India. **Asian Pacific Journal of Allergy Immunology** 2014; 32(4):321-7.
- 225.** Suri D, Ahluwalia J, Saxena AK, Sodhi KS, Singh P, Mittal BR, Das R, Rawat A, **Singh S**. Thromboembolic complications in childhood nephrotic syndrome: a clinical profile. **Clinical and Experimental Nephrology** 2014 ;18(5):803-13.
- 224.** Gupta K, **Singh S**, Sharma D, Singh MP, Singh M. An infant with repeated respiratory infections and failure to thrive. Clinicopathological Conference. **Indian Pediatrics** 2014 ;51(10):819-26.
- 223.** Rawat A, Dhir V, Gupta A, **Suri D**, Burad DK, Nada R, **Singh S**. Good's syndrome presenting with recurrent giardiasis. **Journal of Clinical Immunology** 2014 Oct;34(7):751-2. doi: 10.1007/s10875-014-0080-x. Epub 2014 Jul 22.
- 222.** **Singh S**, Bhattad S, Danda D. Genetics of juvenile idiopathic arthritis. **International Journal of Rheumatic Diseases** 2014;17(3):233-6.
- 221.** **Singh S**, Sharma D. Recent advances in Pediatric Rheumatology: April-June 2014. **International Journal of Rheumatic Diseases** 2014 ;17(6):701-2.
- 220.** Madhusudan S, Singh S, Suri D, Gupta A, Gupta A. Acute anterior uveitis as the presenting feature of Kawasaki disease. **Indian Journal of Pediatrics** 2014; 81:415.
- 219.** Madhusudan S, **Singh S**, Suri D, Dash N, Gupta A. Tuberculin positivity in Kawasaki disease: an unusual occurrence. **Indian Journal of Pediatrics** 2014; 81:416-417.
- 218.** Madhusudan S, **Singh S**, Manojkumar R, Gupta A, Suri D, Rawat M. Late symptomatic myocarditis in Kawasaki disease: an unusual manifestation. **Indian Journal of Pediatrics** 2014; 81(4):404-5.
- 217.** Dogra S, Saini AG, Suri D, Rawat A, Sodhi KS, **Singh S**. Bronchiolitis Obliterans Associated with Stevens-Johnson Syndrome and Response to Azathioprine. **Indian Journal of Pediatrics**.2014; 81(7):732-3
- 216.** Mehra S, Suri D, Dogra S, Gupta A, Rawat A, Saikia B, Minz RW, Nada R, **Singh S**. Hemorrhagic bullous lesions in a girl with Henoch Schönlein purpura. **Indian Journal of Pediatrics** 2014; 81(2):210-1.
- 215.** Rawat A, Suri D, Gupta A, Saikia B, Minz RW, **Singh S**. Isolated Immunoglobulin G4 Subclass Deficiency in a Child with Bronchiectasis. **Indian Journal of Pediatrics** 2014; 81(9):932-3.
- 214.** Sharma D, Swaminathan A, Suri D, Saxena AK, Nijhawan R, **Singh S**. Tuberculosis Spine Presenting as Multiple Skip Lesions and Non-Contiguous Paraspinal Abscesses: An Atypical Presentation. **Indian Journal of Pediatrics** 2014; 81(9):961-2.

213. Dogra S, Saini AG, Suri D, Rawat A, Sodhi KS, **Singh S**. Bronchiolitis Obliterans Associated with Stevens-Johnson Syndrome and Response to Azathioprine. **Indian Journal of Pediatrics** 2014; 81(7):732-3.

2013

212. **Singh S**, Gupta A, Rawat A. 50 years of Pediatric Immunology: progress and future. A clinical perspective. **Indian Pediatrics** 2013; 50: 88-92.

211. Mahajan N, Kapoor D, Bisht D, **Singh S**, Minz RW, Dhawan V. Levels of Interleukin-18 and Endothelin-1 in Children with Henoch Schonlein Purpura: A Study from North India. **Pediatric Dermatology** 2013; 30(6):695-9.

210. Verma S, Singhi SC, Marwaha RK, Singhi P, **Singh S**, Singh M. Tropical Pyomyositis in Children: 10 Years Experience of a Tertiary Care Hospital in Northern India. **Journal of Tropical Pediatrics** 2013; 59: 243-245.

209. **Singh S**, Suri D, Manojkumar R, Narula N, Gupta A, Rawat A. Use of Infliximab in Children with Refractory Kawasaki Disease. **Archives of Disease in Childhood** (Abstr.) 2013; 98: Suppl 1 A103-A104 doi:10.1136/archdischild-2013-304107.244

208. **Singh S**, Suri D, Aulakh R, Gupta A, Rawat A, Manojkumar R. Mortality Patterns in Children with Juvenile Dermatomyositis: Two Decades of Experience from a Single Tertiary Care Centre. **Archives of Disease in Childhood** (Abstr.) 2013; 98: Suppl 1 A103 doi:10.1136/archdischild-2013-304107.243. ([Clin Rheumatol](#). 2014 Nov;33(11):1675-9).

207. Gupta A, **Singh S**, Gupta A, Suri D, Manojkumar R. Aortic Wall Stiffness Studies in Children with Kawasaki Disease Without Coronary Artery Abnormalities – a Follow-Up Study from North India. **Archives of Disease in Childhood** (Abstr.) 2013; 98: Suppl 1 A104 doi:10.1136/archdischild-2013-304107.245. ([Rheumatol Int](#). 2014 Oct;34(10):1427-32).

206. Kaushik S, Singh R, Gupta A, **Singh S**, Suri D, Sarpal N, Pandav SS. [Unilateral recalcitrant glaucoma associated with cytomegalovirus in an immunocompromised child with Wiskott-Aldrich syndrome.](#) **Journal of American Association of Pediatric Ophthalmology** 2013; 17:646-7.

205. Nampoothiri S, **Singh S**, Nampoothiri KN, Boisson-Dupuis S, Abel L, Casanova JL. [Multifocal Tuberculous Osteomyelitis: Possible Inherited Interferon Gamma Axis Defect.](#) **Indian Journal of Pediatrics** 2013; 80:505-8.

204. Saini AG, Verma S, Grover S, Suri D, **Singh S**. A four-month-old boy with bilateral arm swelling. **Paediatrics and Child Health** 2013; 18: 197-199.

203. Dogra S, Gehlot A, Suri D, Rawat A, Kumar RM, **Singh S**. [Incomplete Kawasaki Disease followed by Systemic Onset Juvenile Idiopathic Arthritis- The Diagnostic Dilemma.](#) **Indian Journal of Pediatrics** 2013; 80: 783-785.

202. Grewal A, **Singh S**, Suri D, Lal S, Manojkumar R, Thapa BR. Kawasaki disease masquerading as jaundice. **Indian Journal of Pediatrics** 2013; 80: 261-2.

201. Saini AG, Dogra S, Suri D, Gupta N, Rawat A, **Singh S**. Kikuchi disease masquerading as prolonged fever. **Indian Journal of Pediatrics** 2013; 80: 175-176.

2012

200. **Singh S**, Chandrakasan S, Ahluwalia J, Suri D, Rawat A, Ahmed N, et al. [Macrophage activation syndrome in children with systemic onset juvenile idiopathic arthritis: clinical experience from northwest India](#). **Rheumatology International** 2012; 32: 881-886.
199. Suri D, **Singh S**, Rawat A, Gupta A, Kamae C, Honma K et al. [Clinical profile and genetic basis of Wiskott-Aldrich syndrome at Chandigarh, North India](#). **Asian Pacific Journal of Allergy and Immunology** 2012; 30(1): 71-8.
198. Gupta S, Madkaikar M, **Singh S**, Sehgal S. Primary immunodeficiencies in India: a perspective. **Annals of New York Academy of Sciences** 2012; 1250:73-9.
197. Rana A, Minz R, Aggarwal R, Anand S, Pasricha N, **Singh S**. Gene expression of cytokines (TNF- α , IFN- γ), serum profiles of IL-17 and IL-23 in paediatric systemic lupus erythematosus. **Lupus** 2012; 10: 1105-1112.
196. Rana A, Minz RW, Aggarwal R, Pasricha N, Anand S, **Singh S**. A comparative proteomic study of sera in paediatric systemic lupus erythematosus patients and in healthy controls using MALDI-TOF-TOF and LC MS–A pilot study. **Pediatric Rheumatology** 2012, Aug. 17 (10 (1):24 doi:10.1186/1546-0096-10-24).
195. Minz RW, Kumar Y, Anand S, **Singh S**, Bamberg P, Verma S, Sehgal S. [Antinuclear antibody positive autoimmune disorders in North India: an appraisal](#). **Rheumatology International** 2012; 32(9):2883-8.
194. Nakagawa N, Imai K, Kanegane H, Sato H, Yamada M, Kondoh K, Okada S, Kobayashi M, Agematsu K, Takada H, Mitsui N, Oshima K, Ohara O, Suri D, Rawat A, **Singh S**, Pan-Hammarström Q, Hammarström L, Reichenbach J, Seger R, Ariga T, Hara T, Miyawaki T, Nonoyama S. [Quantification of \$\kappa\$ -deleting recombination excision circles in Guthrie cards for the identification of early B-cell maturation defects](#). **Journal of Allergy and Clinical Immunology** 2012; 30: 71-78.
193. **Singh S**, George M, Ahluwalia J, Gupta A. Antiphospholipid antibodies in children with Kawasaki disease at Chandigarh, North India. **Pediatrics International** (Abstr.) 2012; 54(1):86.
192. **Singh S**. Epidemiological trends of Kawasaki disease at Chandigarh, North India. **Pediatrics International** (Abstr.) 2012; 54(1):44-5.
191. **Singh S**, Suri D, Manojkumar R, Narula N, Gupta A, Rawat A. Infliximab in Kawasaki disease: clinical experience from North India. **Pediatrics International** (Abstr.) 2012; 54(1):113.
190. **Singh S**, Narsaria P, Bhalla A, Khullar M, Gupta A. Lipid profile and fat patterning during follow-up of children with Kawasaki disease at Chandigarh, North India. **Pediatrics International** (Abstr.) 2012; 54(1):129.
189. **Singh S**, Meena RS, Manojkumar R, Gupta A, Narula N. Carotid intima-media thickness in children with Kawasaki disease on follow-up at Chandigarh, North India. **Pediatrics International** (Abstr.) 2012; 54(1):133-4.
188. Gupta A, **Singh S**. Kawasaki disease - A preventable cause of cardiac morbidity. **Indian Journal of Rheumatology** 2012; 7(1) (Suppl); 87–91.
187. Aggarwal P, **Singh S**, Suri D, Rawat A, Narula N, Manojkumar R. [Rituximab in childhood lupus myocarditis](#). **Rheumatology International** 2012; 32(6):1843-4
186. Aggarwal P, **Singh S**, Suri D, Narula N, Manojkumar R. Symptomatic myocarditis in Kawasaki disease. **Indian Journal of Pediatrics** 2012 ;79(6): 813-4.

185. Jindal G, **Singh S**, Suri D, Rawat A, Manojkumar R. Recurrent ventricular tachycardia in a child with juvenile dermatomyositis – an unusual association. **International Journal of Rheumatic Diseases** 2012 ;15(2):e26-7.

184. Dogra S, Suri D, Shah R, Rawat A, Sodhi KS, **Singh S**. Spontaneous pneumomediastinum: a rare complication of juvenile dermatomyositis. **International Journal of Rheumatic Diseases** 2012 ;15(5):e131-3.

183. Sharma D, **Singh S**, Suri D, Rawat A, Shava U, Sodhi KS. [Anasarca as the initial presentation of juvenile polymyositis: an uncommon occurrence.](#) **Rheumatology International** 2012 ;32(8): 2589-90.

2011

182. **Singh S**, Aulakh R, Bhalla AK, Suri D, Manojkumar R, Narula N, Burns JC. [Is Kawasaki disease incidence rising in Chandigarh, North India?](#) **Archives of Diseases in Childhood** 2011; 96(2):137-40.

181. **Singh S**, Chandrakasan S, Ahluwalia J, Suri D, Rawat A, Ahmed N, Das R, Sachdeva MU, Varma N. [Macrophage activation syndrome in children with systemic onset juvenile idiopathic arthritis: clinical experience from northwest India.](#) **Rheumatology International** 2011 Jan 11. [Epub ahead of print].

180. Ghelani SJ, **Singh S**, Manojkumar R. [QT interval dispersion in North Indian children with Kawasaki disease without overt coronary artery abnormalities.](#) **Rheumatology International** 2011; 31: 301-305.

179. Aggarwal B, Bhalla AK, **Singh S**. [Sexual maturation in boys with juvenile rheumatoid arthritis.](#) **Rheumatology International** 2011; 31: 1419-1421.

178. Aggarwal B, Bhalla AK, **Singh S**. [Longitudinal growth attainments of Indian boys with Juvenile Rheumatoid Arthritis.](#) **Rheumatology International** 2011; 31: 635-640.

177. Chaudhuri K, Ahluwalia TS, **Singh S**, Binopal G, Khullar M. [Polymorphism in the promoter of the CCL5 gene \(CCL5G-403A\) in a cohort of North Indian children with Kawasaki disease. A preliminary study.](#) **Clinical and Experimental Rheumatology** 2011 Mar 18. [Epub ahead of print].

176. Chandrakasan S, **Singh S**, Dogra S, Delaunay J, Proust A, Minz RW. [Wiskott-Aldrich syndrome presenting with early onset recurrent acute hemorrhagic edema and hyperostosis.](#) **Pediatric Blood and Cancer** 2011 1;56(7):1130-2.

175. Naseem S, Suri D, Ahluwalia J, Lal SB, Thapa BR, **Singh S**. [Lupus anticoagulant in a child with celiac disease: a rare association.](#) **Rheumatology International** 2011; 31: 963-965.

174. Dogra S, Agrawal SK, Jindal R, Suri D, Ahluwalia J, **Singh S**. [Peripheral gangrene in a breast fed neonate- is hypernatremic dehydration the cause?](#) **Indian Journal of Pediatrics** 2011 May 4. [Epub ahead of print]

173. Kashyap R, Mittal BR, Bhattacharya A, Manojkumar R, **Singh S**. [Exercise myocardial perfusion imaging to evaluate inducible ischaemia in children with Kawasaki disease.](#) **Nuclear Medicine Communications** 2011; 32(2):137-41.

172. Khan S, **Singh S**. Practical issues for clinicians using high dose intravenous immunoglobulin. **Indian Journal of Dermatology** 2011; 56(1): 122-123.

171. Ahluwalia J, Naseem S, **Singh S**, Suri D, Das R, Sachdeva MU, Varma N. [Prothrombotic profile in children with peripheral gangrene: a single center experience.](#) **Clinical and Applied Thrombosis Hemostasis** 2011; 17: 497-450.

170. Suri D, Ahluwalia J, Sachdeva MU, Das R, Varma N, **Singh S**. [Arthritic presentation of childhood malignancy: beware of normal blood counts.](#) **Rheumatology International** 2011; 31: 827-829.

169. Rawat A, **Singh S**, Sharma D, Suri D, Rajwanshi A, Etzioni A. [Amyloidosis in a Child with Leucocyte Adhesion Deficiency Type-1: An Unusual Association.](#) **Indian Journal of Pediatrics** 2011; 78: 1546-48.

168. Dubey ML, Khurana S, Singhal L, Dogra S and **Singh S**. Trichinosis without Eosinophilia- a case report. **Tropical Doctor** 2011 ; 41: 244-6.

2010

167. **Singh S**, Ahluwalia J, Naseem S, Suri D, Rawat A. Antiphospholipid antibodies in children with systemic lupus erythematosus – 18 years of clinical experience. **Arthritis Rheumatism** 2010; 62: Suppl. S2 (Abstract 4).

166. **Singh S**, Mehra S. [Approach to polyarthritis](#). **Indian Journal of Pediatrics** 2010; 77(9):1005-10.

165. Rana A, Minz RW, Aggarwal R, **Singh S**. Relative gene expression analysis of cytokines IFN- and TNF- genes and their association with autoantibody profile and disease activity in pediatric lupus. **Lupus** 2010; 19: 1-185 (P02.N.9)

164. Rana A, Minz RW, Aggarwal R, **Singh S**. Th1 and Th2 cytokine profile in pediatric lupus and their association with disease activity in a north Indian cohort. **Lupus** 2010; 19: 1-185 (P02.N.10)

163. Ahluwalia J, Naseem S, **Singh S**, Suri D, Das R, Sachdeva MU, Varma N. [Prothrombotic Profile in Children With Peripheral Gangrene: A Single Center Experience](#). **Clinical and Applied Thrombosis Hemostasis** 2010 Aug 10. [Epub ahead of print].

162. Minz RW, Chhabra S, **Singh S**, Radotra BD, Kumar B. Direct immunofluorescence of skin biopsy – perspective of an immunopathologist. **Indian Journal of Dermatology** 2010; 76 (2): 150-157.

161. **Singh S**, Aulakh R. [Kawasaki disease and Henoch Schonlein purpura: changing trends at a tertiary care hospital in north India \(1993-2008\)](#). **Rheumatology International** 2010; 30(6): 771-4.

160. **Singh S**, Gupta D, Suri D, Kumar RM, Ahluwalia J, Das R, Varma N.

[Thrombocytopenia as a presenting feature of Kawasaki disease: a case series from North India](#). **Rheumatology International** 2010. (Epub ahead of print). PMID: 19444450

159. Nishad P, **Singh S**, Sidhu M, Malhi P. Cognitive and behaviour assessment following Kawasaki disease - a study from North India. **Rheumatology International** 2010; 30(6):851-4.

158. Mahajan N, Bisht D, Dhawan V, **Singh S**, Minz R. [Transcriptional expression and gelatinolytic activity of matrix metalloproteinases in Henoch-Schonlein purpura](#). **Acta Paediatrica** 2010; 99: 1248-1252.

157. Gupta D, **Singh S**, Suri D, Ahluwalia J, Das R, Varma N. [Arthritic presentation of acute leukemia in children: experience from a tertiary care centre in North India](#). **Rheumatology International** 2010; 30(6):767-70.

156. Taneja N, Chatterjee SS, **Singh M**, Singh S, Sharma M. [Pediatric urinary tract infections in a tertiary care center from north India](#). **Indian Journal of Medical Research** 2010;131:101-5.

155. Minz RW, Chhabra S, **Singh S**, Radotra BD, Kumar B. [Direct immunofluorescence of skin biopsy: perspective of an immunopathologist](#).

Indian Journal of Dermatology Venereology Leprology 2010; 76(2) :150-7.

154. Minz RW, **Singh S**, Varma S, Mathuria SN, Aggarwal R, Sehgal S. Relevance of opt-out screening for HIV in emergency and pre-surgery patients in a tertiary care center in Northern India: A pilot study. **Indian Journal of Pathology and Microbiology** 2010; 53(2): 287-289.

2009

153. Singh S, Jat KR, Minz RW, Arora S, Suri D, Sehgal S. Clinical profile of 516 children affected by HIV in a tertiary care centre in northern India: 14 years of experience. **Transactions of the Royal Society of Tropical Medicine and Hygiene** 2009; 103:627-633.

152. Singh S, Gupta MK, Ahluwalia J, Singh P, Malhi P. Neuropsychiatric manifestations and antiphospholipid antibodies in pediatric onset lupus: 14 years of experience from a tertiary care centre of North India. **Rheumatology International** 2009; 29(12): 1455-61.

151. Ghelani S, Singh S, Manojkumar R. Endothelial dysfunction in a cohort of North Indian children with Kawasaki disease without overt coronary artery involvement. **Journal of Cardiology** 2009; 53: 226-231.

150. Singh S, Kawasaki T. [Kawasaki disease - an Indian perspective.](#)

Indian Pediatrics 2009; 46(7):563-71.

149. Singh S, Gupta D, Suri D, Kumar RM, Ahluwalia J, Das R, Varma N. Thrombocytopenia as a presenting feature of Kawasaki disease: a case series from North India. **Rheumatology International** 2009; 30(2): 245-8.

148. Mahajan V, Singh S, Khullar M, Minz RW. Serum and urine nitric oxide levels in children with Henoch-Schonlein Purpura during activity and remission – a study from North India. **Rheumatology International** 2009; 29(9): 1069-72.

147. Chandrakasan S, Singh S, Ratho RK, Mishra B. Anasarca as the presenting manifestation of Parvovirus B19 associated Juvenile Dermatomyositis. **Rheumatology International** 2009; 29: 565-567

146. Bal A, Rawat A, Nada R, Singh S. A 12-year-old boy with X-linked agammaglobulinemia who had breakthrough infection, thrombocytopenia and acute renal failure. **The National Medical Journal of India** 2009; 22 (6): 310-316.

145. Singh S, Jat KR, Suri D, Ratho RK. [Dengue fever and Kawasaki disease: a clinical dilemma.](#) **Rheumatology International** 2009; 29(6):717-9.

144. Sawhney S, Agarwal M, Roy S, Buxi S, Sud S, Singh S. A patient with rashes and limb weakness. **Indian Pediatrics** 2009; 46(10):867-73.

2008

143. Salhan M, Ahluwalia J, Singh S, Minz RW. Authors' reply. Antiphospholipid antibodies in children with systemic lupus erythematosus: a prospective study from North India. **Scandinavian Journal of Rheumatology** 2008; 38: 74-75.

142. Shanmugavel C, Sodhi KS, Sandhu MS, Sidhu R, Singh S, Katariya S, Khandelwal N. Role of Power Doppler ultrasonography in evaluation of therapeutic response of the knee in juvenile rheumatoid arthritis. **Rheumatology International** 2008, 28: 573-578.

141. Bal A, Gupta A, Sodhi KS, Das A, Singh S. Multifocal extranodal non-Hodgkin lymphoma involving both the lungs and brain in a child with primary immunodeficiency. **J Pediatr Hematol Oncol** 2008, 30: 317-19.

140. Sehgal S, Pasricha N, Singh S. High rate of mutation K103N causing resistance to nevirapine in Indian children with Acquired immunodeficiency Syndrome. **Indian Journal of Medical Microbiology** 2008; 26: 372-4.

139. Aulakh R, Singh S. Strategies for minimizing corticosteroid toxicity: a review. **Indian Journal of Pediatrics** 2008; 75:1067-73.

138. Jat KR, Singh S. Calcification in juvenile dermatomyositis. **Indian Pediatrics** 2008, 45: 784.

137. Singh S, Jat KR. Juvenile idiopathic arthritis: an update. **Indian Journal of Rheumatology** 2008, 3:110-119.

136. Sehgal S, Datta U, Arora S, Singh S. Time trends of pediatric HIV infection in North India. **J Indian Med Assoc** 2008, 106: 162-4.

2007

135. Singh S, Gupta MK, Bansal A, Kumar RM, Mittal BR. A comparison of the clinical profile of Kawasaki disease in children from Northern India above and below 5 years of age. **Clinical and Experimental Rheumatology** 2007, 25: 654-657.

134. Kothur K, Singh S, Sharma Y, Mittal BR. Prospective follow-up cardiac evaluation of children with Kawasaki disease in Northern India using the Japanese echocardiography criteria. **Journal of Cardiology** 2007, 50: 299-307.

133. Salhan M, Ahluwalia J, Singh S, Minz R. Antiphospholipid antibodies in children with Henoch Schonlein Purpura – a prospective study from North India. **Scandinavian Journal of Rheumatology** 2007, 36: 482-484.

132. Kakati P, Sodhi KS, Sandhu MS, Singh S, Katariya S, Khandelwal N. Clinical and ultrasonographic assessment of the knee in children with Juvenile Rheumatoid Arthritis. **Indian Journal of Pediatrics** 2007; 74: 831-36.

2006

131. Verma S, Singh S, Bhalla AK, Khullar M. A study of subcutaneous fat in children with juvenile dermatomyositis. **Arthritis and Rheumatism (Arthritis Care and Research)** 2006; 55: 564-568.

130. Singh S, Bansal A. Twelve years experience of juvenile dermatomyositis in North India. **Rheumatology International** 2006, 26: 510-515.

129. Singh S, Devidayal, Minz R, Nada R, Joshi K. Childhood lupus nephritis: 12 years experience from North India. **Rheumatology International** 2006, 26: 604-607.

128. Venkatraman R, Singh S, Minz R. Study of the autoantibody profile after the acute phase of Kawasaki Disease. **Rheumatology International** 2006, 26: 693-696.

127. Singh S, Jindal G. Chronic arthritis in children: where do we stand? Editorial. **Indian Journal of Rheumatology** 2006, 14: 1-2.

2005

126. Singh S, Bansal A, Gupta A, Manojkumar R, Mittal BR. Kawasaki Disease – a decade of experience from North India. **International Heart Journal** 2005, 46(4): 679-689.

125. Mitra A, Singh S, Devidayal, Khullar M. Serum lipids in North Indian children treated for Kawasaki Disease. **International Heart Journal** 2005, 46:811-817.

124. Ahluwalia J, Singh S, Garewal G. Antiphospholipid antibodies in children with systemic lupus erythematosus. **Rheumatology International** 2005, 25(7): 530-535.

123. Singh S, Kansra S. Kawasaki Disease. **The National Medical Journal of India** 2005, 18: 20-24.

122. Singh S, Bansal A. Transient hypogammaglobulinemia of infancy: Twelve years' experience from Northern India. **Pediatric Asthma, Allergy and Immunology** 2005, 18: 77-81.

121. Dass R, Ramesh P. Ratho RK, Saxena AK, Singh S. Parvovirus B19-induced multisystem disease simulating systemic vasculitis in a young child. **Rheumatology International** 2005, 25: 125-129.

120. Mittal BR, Singh S, Bhattacharya A, Prasad V, Singh B. Lung scintigraphy in the diagnosis and follow-up of pulmonary thromboembolism in children with nephritic syndrome. **Clinical Imaging** 2005, 29: 313-316.

119. Singh S, Venkatraman R. Kawasaki Disease – when to suspect and how to manage? **The Journal of General Medicine** 2005, 17: 11-13.

2004

118. Beri A, Singh S, Gupta A, Khullar M. Comparison of serum nitric oxide levels in children with active juvenile rheumatoid arthritis with those in remission. **Rheumatology International** 2004, 24: 264-66.

117. Gupta A, Singh S, Minz RW, Radotra BD, Ahluwalia J, Grover A. Lupus myocarditis in children. **Annals of the Rheumatic Diseases** 2004, 63: 745-6.

116. Singh S, Gupta A. Kawasaki Disease – A common cause of acquired heart disease in India. **Indian Heart Journal** 2004, 56: 261-262.

115. Singh S. Update on immunization policies, guidelines and recommendations. **Indian Pediatrics** 2004, 41: 239-244.

114. Dass R, Singh S, Kumar V, Vaiphei K, Agrawal S, Saeed T, Minz RW. Varicella glomerulonephritis mimicking microscopic polyangiitis. **Rheumatology International** 2004, 24: 362-364.

113. Rongali AN, Singh S, Thapa BR, Vaiphei K. Asymptomatic gastritis in naproxen-treated North Indian children with juvenile rheumatoid arthritis.

APLAR Journal of Rheumatology 2004, 7: 19-23.

2003

112. Gupta A, **Singh S**, Singh P, Ahluwalia J, Rath S, Minz RW. Spastic quadriplegia : an unusual early manifestation of systemic lupus erythematosus. **Scandinavian Journal of Rheumatology** 2003, 32:189-90.

111. **Singh S**. Chronic arthritis: current perspectives. Editorial. **Indian Pediatrics** 2003, 40: 393-397.

110. Sethi S, Kaushik K, Mohandas K, Sengupta C, **Singh S**, Sharma M. Anti-streptolysin O titres in normal healthy children of 5-15 years. **Indian Pediatrics** 2003, 40: 1068-71.

2002

109. **Singh S**, Dayal D, Minz RW, Joshi K, Datta U, Kumar L. Severe Henoch-Schonlein nephritis : treatment with azathioprin and steroids. **Rheumatology International** 2002, 22: 133-137.

108. **Singh S**, Dayal D, Kumar L, Joshi K. Mortality patterns in childhood lupus – 10 years experience in a developing country. **Clinical Rheumatology** 2002, 21: 462-65.

107. Singla A, **Singh S**, Srinivasan R, Sharma M. The natural course of non-suppurative Bacille Calmette Guerin lymphadenitis. **The Pediatric Infectious Disease Journal** 2002, 21: 446-48.

106. Malhi P, **Singh S**. Effect of parental distress and family support on the psychological adaptation of children with juvenile rheumatoid arthritis.

Studia Psychologica 2002, 44: 253-58.

105. Dayal D, **Singh S**, Kumar L, Radotra BD. Disabling pansclerotic morphea of childhood and hypogammaglobulinemia : a curious association.

Rheumatology International 2002, 21 :158-60.

104. **Singh S**, Khubchandani R. Pediatric rheumatology in India – in need of a joint effort. Editorial. **Indian Journal of Pediatrics** 2002, 69: 19-20.

103. **Singh S**, Das R. Clinical approach to vasculitis in children. **Indian Journal of Pediatrics** 2002, 69: 27-34.

102. Reddy AR, Jain V, **Singh S**, Thapa BR, Kumar L. Proximal muscle weakness – an unusual presentation of celiac disease. **Journal of Tropical Pediatrics** 2002, 48: 380-81.

101. Ahluwalia J, **Singh S**, Garewal G. The occurrence of antiphospholipid antibodies is not uncommon in children with systemic lupus erythematosus.

Indian Journal of Hematology and Blood Transfusion 2002, 20 (Suppl.1): 20.

2001

100. Jain V, **Singh S**, Sharma A. Keratoconjunctivitis sicca is not uncommon in children with juvenile rheumatoid arthritis. **Rheumatology International** 2001, 20: 159-62.

99. **Singh S**, Dayal D, Kumar L. Childhood SLE: a single center experience from a developing country. **Lupus** 2001, 10 (Suppl.): S82.

98. **Singh S**, Dayal D, Kumar L. Mortality in childhood lupus – scenario in a developing country. **Lupus** 2001, 10 (Suppl.): S112.

97. Sharman J, Kumar L, **Singh S**. Comparison of results of skin prick tests, enzyme-linked immunosorbent assays and food challenges in children with respiratory allergy. **Journal of Tropical Pediatrics** 2001, 47: 367-68

96. Dayal D, **Singh S**, Radotra BD, Kumar L. Sclerodema of Buschke : a clinical series of 5 patients. **APLAR Journal of Rheumatology** 2001, 4:175-77.

95. Sood M, **Singh S**, Khandelwal N, Kumar L. Bilateral sudden loss of vision : an unusual presentation of childhood polyarteritis nodosa. **APLAR Journal of Rheumatology** 2001, 4: 187-89.

2000

94. Jain S, Sharma N, **Singh S**, Bali HK, Kumar L, Sharma BK. Takayasu arteritis in children and young Indians. **International Journal of Cardiology** 2000, 75 (S) : 153-57

93. Ahluwalia J, Das R, **Singh S**. Pure red cell aplasia with juvenile rheumatoid arthritis – an uncommon occurrence. **APLAR Journal of Rheumatology** 2000, 4: 127-29.

92. Goraya JS, **Singh S**, Kumar L. Acute abdomen in Henoch-Schonlein Purpura : A surgical dilemma. **APLAR Journal of Rheumatology** 2000, 4 : 79-80.

91. Sharman J, Kumar L, **Singh S**. Allergenicity of common foods restricted in respiratory allergy. **Indian Journal of Pediatrics** 2000, 67:713- 720.
90. **Singh S**. Human Immunodeficiency Virus Infection. **Indian Pediatrics** 2000, 37: 1328-40.
89. Mitra S, **Singh S**, Grover A, Kumar L. A child with prolonged pyrexia and peripheral desquamation: Is it Kawasaki Disease? **Indian Pediatrics** 2000, 37:786-789.

1999

88. **Singh S**, Salaria M, Kumar L, Datta V, Sehgal S. Clinico-immunological profile of juvenile rheumatoid arthritis at Chandigarh. **Indian Pediatrics** 1999, 36: 449-454.
87. **Singh S**. Kawasaki Disease: A clinical dilemma. Editorial. **Indian Pediatrics** 1999, 36: 871-875.
86. **Singh S**, Bali H.K., Salaria M, Lal S, Pandav SS, Kumar L. Takayasu's Arteritis in young children - a potentially treatable condition. **Indian Pediatrics** 1999, 36 : 291-296.
85. Salaria M, **Singh S**, Kumar L, Datta U, Sehgal S. Chronic granulomatous disease. **Indian Pediatrics** 1999, 36 : 594-596.
84. Baranwal A, **Singh S**, Kumar L. Hereditary Angioneurotic Edema. **Indian Pediatrics** 1999, 36 :187-189.
83. Poddar U, **Singh S**, Kumar L. Paroxysmal torticollis of infancy. **Indian Pediatrics** 1999, 36 :86-88.

1998

82. Mehta A, **Singh S**, Ganguly NK. Role of reactive oxygen species in Salmonella typhimurium - induced enterocyte damage. **Scandinavian Journal of Gastroenterology** 1998, 33: 406-414.
81. Mehta A, **Singh S**, Dhawan V, Ganguly NK. Intestinal mucosal lipid peroxidation and absorptive function in Salmonella typhimurium mediated intestinal infection. **Molecular and Cellular Biochemistry** 1998, 178: 345-352.
80. Kaur T, **Singh S**, Dhawan V, Ganguly NK. Shigella dysenteriae type 1 toxin induced lipid peroxidation in enterocytes isolated from rabbit ileum. **Molecular and Cellular Biochemistry** 1998, 178: 169-179.
79. Mehta A, **Singh S**, Ganguly NK. Impairment of intestinal mucosal antioxidant defense system during Salmonella typhimurium infection. **Digestive Diseases and Sciences** 1998, 43: 646-651.
78. Khetarpal R, Goraya JS, Singh M, **Singh S**, Kumar L. Pulmonary hypertension as presenting feature of childhood SLE: association with lupus anticoagulant. **Scandinavian Journal of Rheumatology** 1998, 26:325-326.
77. Goraya JS, Singh G, **Singh S**, Gill SS, Goyal A, Mitra SK, Kumar L. Arteriovenous malformation of knee masquerading as juvenile arthritis. **Scandinavian Journal of Rheumatology** 1998, 27: 313.
76. Goraya JS, Jayashree M, Ghosh D, **Singh S**, Singhi SC, Kumar L. Guillain -Barre Syndrome in a child with Henoch Schonlein Purpura. **Scandinavian Journal of Rheumatology** 1998, 27: 310.
75. Girish CS, **Singh S**, Kohli A, Kumar R. Knowledge and attitude regarding HIV/AIDS in children from co-educational schools of Chandigarh, North India. **Acta Paediatrica** 1998 ,87: 713.
74. Salaria M, **Singh S**, Dutta U, Sehgal S, Kumar L. Arthritis as the presenting feature of hypogammaglobulinemia. **Indian Pediatrics** 1998, 35: 367-370.
73. Trehan A, **Singh S**, Kumar L. Urinoma - An unusual complication following kidney biopsy. **Indian Journal of Pediatrics** 1998, 65: 841-843.

1997

72. Kumar L, **Singh S**, Goraya JS, Uppal B, Kakkar S, Walker R and Sehgal, S. Henoch Schonlein Purpura- the Chandigarh experience. **Indian Pediatrics** 1997; 35: 19-25.
71. Mehta A, **Singh S**, Dhawan V, Ganguly NK. Intestinal mucosal lipid peroxidation and absorptive function in Salmonella typhimurium mediated intestinal infection. **Molecular and Cellular Biochemistry** 1997, 178:345-352.
70. Kaur T, **Singh S**, Verma M, Ganguly NK. Calcium and protein kinase C play a significant role in response to Shigella toxin in rabbit ileum both in vivo and in vitro. **Biochemica et Biophysica Acta** 1997, 1361: 75-91.
69. Kakkar N, Vasishta RK, Banerjee AK, **Singh S**, Kumar L. Pulmonary capillary hemangiomatosis as a cause of pulmonary hypertension in Takayasu's Aortoarteritis. **Respiration** 1997, 64: 381-383.
68. **Singh S**, Kumar L, Ravi Shankar R. Juvenile dermatomyositis in North India. **Indian Pediatrics** 1997, 34: 193-198.

67. **Singh S**, Kumar L, Trehan A, Marwaha RK. Kawasaki Disease at Chandigarh. **Indian Pediatrics** 1997, 34: 822-825.
66. **Singh S**, Kumar L, Khetarpal R, Aggarwal P, Marwaha RK, Minz RW, Sehgal S. Clinical and immunological profile of SLE : some unusual features. **Indian Pediatrics** 1997, 34: 979-986.
65. Banerjee S, Kumar L, **Singh S**, Kakkar N. Multiple sclerosis and systemic lupus erythematosus in a 10 year old girl. **Indian Pediatrics** 1997, 34: 159- 162.
64. Trehan A, **Singh S**, Kimar L. Valvular heart disease - rheumatic or rheumatoid? **Indian Pediatrics** 1997, 34: 641-644.
63. **Singh S**. Defense mechanism of breast milk. **Indian Pediatrics** 1997; 34: 174-176.
62. Trehan A, Marwaha RK, **Singh S**, Sehgal S. Human Immunodeficiency Virus infection transmitted through breast milk - A case report. **Indian Journal of Pediatrics** 1997, 64 : 415-418.
61. Salaria M, **Singh S**, Kumar L. Reiter's Syndrome : A case report. **Indian Pediatrics** 1997, 34: 943-944.
60. Salaria M, **Singh S**, Kumar L. Hyper Immunoglobulin E Syndrome. **Indian Pediatrics** 1997, 34: 827-829.
59. **Singh S**. Low ESR. **Indian Pediatrics** 1997, 34: 1147

1996

58. Nagaraj D, Kanwar AJ, Dhar S, **Singh S**. Study of pattern of inheritance and evaluation of minor criteria in diagnosis of atopic dermatitis. **Pediatric Dermatology** 1996, 13: 10-13.
57. Kumar L, Sarkar B, **Singh S**, Bajwa RPS, Joshi K, Malik N. Polyarteritis nodosa - a few unusual findings. **Indian Pediatrics** 1996, 33: 459-464.
56. Kumar L, **Singh S**. Vasculitis in children. **Indian Journal of Pediatrics** 1996, 63: 323-334.
55. **Singh S**, Radotra B. Clinicopathological conference - A child with painful joints and failing kidneys. **Indian Pediatrics** 1996; 33: 932-943.
54. **Singh S**, Kumar L. A child with Kawasaki Disease- Treatment with intravenous immunoglobulin during the acute stage. **Indian Pediatrics** 1996, 33: 689-692.
53. Sarkar B, **Singh S**, Suri M, Kumar L. Secondary amyloidosis following juvenile chronic arthritis. **Indian Pediatrics** 1996, 33: 125-127.

1995

52. Kaur T, **Singh S**, Gorowara S, Ganguly NK. Role of enteric nervous System in Shigella dysenteriae Type 1 toxin induced fluid secretion in rabbit ileum. **Journal of Diarrheal Disease Research** 1995, 13: 139-145.
51. Walia BNS, **Singh S**. Protein energy malnutrition. **Current Pediatrics** 1995, 5: 43-48.
50. Sarkar B, Narasimhan KL, **Singh S**, Kumar L. Foreign body in a bronchus: the importance of a good history. **Journal of Paediatrics and Child Health** 1995, 31 : 98-99.
49. Chaudhuri MK, **Singh S**, Kumar L. Poncet's Disease- Tuberculous rheumatism. **Indian Journal of Pediatrics** 1995, 62: 363-365.
48. Chaudhuri MK, **Singh S**, Kumar L. Bilateral pneumothorax following percutaneous renal biopsy. **Indian Pediatrics** 1995, 32: 1220-1221.

1994

47. Hirst WJR, Layton DM, **Singh S**, Mieli-Vergani G, Chessels JM, Strobel S, Pritchard J. Hemophagocytic- lymphohistiocytosis: Experience at two U.K. centres. **British Journal of Haematology** 1994, 88: 731-739.
46. Kaur T, **Singh S**, Ganguly NK Pathophysiology of Shigella dysenteriae I toxin induced diarrhea in rabbit ileum. **Journal of Gastroenterology and Hepatology** 1994 (Suppl.): 4 (Abstr.).
45. Banerjee S, Singhi SC, **Singh S**, Singh M. The intraosseous route is a suitable alternative to intravenous route for fluid resuscitation in severely dehydrated children. **Indian Pediatrics** 1994, 31: 1511-1520.
44. Sarkar S, **Singh S**, Narang A. Transplacentally acquired carbamate insecticide (BAYGON) poisoning in a neonate. **Indian Pediatrics** 1994, 31: 343-346.
43. Meeraji Rao D, **Singh S**, Kumar L. Right atrial thrombus associated with pyopericardium. **Indian Pediatrics** 1994, 31: 1427-1429.

1993

42. **Singh S**, Gulati S, Marwaha RK, Garewal G, Kumar L, Sehgal S. HIV serosurveillance in multi-transfused thalassemic children. **Indian Pediatrics** 1993, 30: 108-109.
41. Kumar L, **Singh S**, Trehan A, Sehgal S. HIV seroconversion in a young child following a single blood transfusion. **Indian Pediatrics** 1993, 30: 511-513.
40. Kohli V, **Singh S**, Kumar L. Pyogenic psoas abscess in a young infant. **Indian Pediatrics** 1993, 30: 819.

1992

39. Walia BNS, **Singh S**, Marwaha RK, Bhusnurmath SR, Dilawari JB. Fulminant hepatic failure and acute intravascular hemolysis as presenting manifestations of Wilson's disease in young children. **Journal of Gastroenterology and Hepatology** 1992, 7: 370-373
38. Bhawe SA, Pandit AN, **Singh S**, Walia BNS, Tanner MS. The prevention of Indian Childhood Cirrhosis. **Annals of Tropical Paediatrics** 1992, 12: 23-30.

1991

37. Turner MW, Super M, **Singh S**, Levinsky RJ. Molecular basis of an inherited opsonic defect. **Clinical & Experimental Allergy** 1991, 21 (Suppl. 1): 182-188.
36. Bhusnurmath SR, Walia BNS, **Singh S**, Prakash D, Radotra BD, Nath R. Sequential histopathologic alterations in Indian Childhood Cirrhosis treated with d-penicillamine. **Human Pathology** 1991, 22: 653-658.
35. Finn A, Strobel S, Morgan G, **Singh S**, Cant A, Levinsky RJ. A working classification of immunodeficiency and associated infections for the clinician. **Immunology and Infectious Diseases** 1991, 1: 247-250.
34. **Singh S**, Kohli V. d-Penicillamine. **Indian Pediatrics** 1991, 28:779-785.

1990

33. **Singh S**, Gulati S, Narang A, Bhakoo ON. Non-narcotic withdrawal syndrome in a neonate due to maternal clomipramine therapy. **Journal of Paediatrics and Child Health** 1990, 26: 110
32. **Singh S**, Narang A, Gulati S. Neonatal Polycythemia-Issues and current perspectives. **Indian Journal of Pediatrics** 1990, 57: 615-620.
31. **Singh S**, Narang A, Bhakoo ON. Polycythemia in the newborn. **Indian Pediatrics** 1990, 27: 349-352.
30. Singhi S, **Singh S**. Fever : Maternal knowledge, attitude and treatment practices in a rural area. **Indian Pediatrics** 1990, 27: 1103-1106.
29. Sheno A, **Singh S**. Stress during postgraduate training in pediatrics. **Indian Pediatrics** 1990, 27: 642-643 (Letter).
28. Kohli V, **Singh S**. Role of elastase-alpha-1-proteinase inhibitor in early diagnosis of neonatal sepsis. **Indian Pediatrics** 1990, 27: 880-881 (Letter).

1989

27. Kumar L, Garg SK, **Singh S**, Lal R, Shukla VK. Theophylline pharmacokinetics in well- nourished and malnourished asthmatic children. **International Journal of Clinical Pharmacology, Therapy and Toxicology** 1989, 27: 588-592.
26. **Singh S**, Dilawari JB, Chawla YK, Walia BNS. Wilson's disease in young children in Northern India. **Tropical Gastroenterology** 1989, 10: 46-50.
25. **Singh S**, Singhi S. Recovery from respiratory paralysis caused by Guillain-Barre' Syndrome in an infant after repeated exchange transfusions. **Clinical Pediatrics** 1989, 28: 480-481.
24. Marwaha RK, **Singh S**, Garewal G, Marwaha N, Walia BNS, Kumar L. Bleeding manifestations in childhood megaloblastic anemia. **Indian Journal of Pediatrics** 1989, 56: 243-247.
23. **Singh S**, Narang A, Bannerjee CK, Bhakoo ON. Nesidioblastosis in the newborn. **Indian Pediatrics** 1989, 26: 403-406.
22. Gulati S, **Singh S**, Narang. A, Bhakoo ON. Exchange transfusion with G6PD deficient donor blood causes exaggeration of neonatal hyperbilirubinemia. **Indian Pediatrics** 1989, 26: 499-501.
21. **Singh S**, Goyal L, Singhi P, Bidwai PS, Walia BNS. Dose of verapamil in infants and young children. **Indian Pediatrics** 1989, 26: 612-613.
20. **Singh S**, Goyal L, Singhi S. Severe lead intoxication in a family caused by use of residential premises for battery manufacturing. **Indian Pediatrics** 1989, 26: 718-720.

19. Singh S, Narang A, Bhakoo ON. DC cardioversion of supraventricular tachycardia in a neonate. **Indian Pediatrics** 1989, 26: 846-847.

1988

18. Walia BNS, Dilawari JB, Bajwa RPS, Singh S, Nath R. Copper excretion test in Indian Childhood Cirrhosis. **Hepatology** 1988, 8: 1458.

17. Bajwa RPS, Singh S, Nath R, Dilawari JB, Walia BNS. Increased urinary copper excretion following d-penicillamine in children with Indian Childhood Cirrhosis. **Journal of Gastroenterology & Hepatology** 1988, 3: 689.

16. Singh S, Kumar L, Kumar V. Prescribing practices in childhood sore throat. **Indian Pediatrics** 1988, 25: 1149-1154.

15. Narang A, Singh S. Ventilatory Therapy. **Indian Pediatrics** 1988, 25 (Suppl.): 31-36.

14. Singh S, Marwaha RK, Padmini P, Das KM, Sialy R. Generalized lipodystrophy. **Indian Pediatrics** 1988, 25: 37-380.

13. Singh S, Ravi Shankar R, Singhi P, Kumar L. Isolated hypoglossal nerve palsy in pyogenic meningitis. **Indian Pediatrics** 1988, 25: 705-706.

12. Ghosh K, Singh S, Pereira BJG, Singhi S. Acute systemic toxic reactions caused by hornet stings. **Indian Pediatrics** 1988, 25: 96-98.

11. Singhi S, Singh S, Bidwai PS. Peptococcus endocarditis. **Indian Pediatrics** 1988, 25: 876-878.

10. Singh S, Singhi P. Stokes-Adams attacks misdiagnosed as epilepsy.

Indian Pediatrics 1988, 25: 903-904.

9. Singh S. Transmission of hepatitis B virus - Need for reappraisal. **Indian Pediatrics** 1988, 25: 1128-1129 (Letter).

8. Singh S, Singhi P. Should the syringe be redesigned? **Indian Pediatrics** 1988, 25: 394 (Letter).

7. Singh S. Essential Drugs. **Indian Pediatrics** 1988, 25: 310.

1987

6. Singh S, Kumar L. Inadequacies in management of acute respiratory infections. **Indian Journal of Pediatrics** 1987, 54: 183-186.

5. Singh S. Clean intermittent catheterization in management of bladder dysfunction in spina bifida. **Indian Pediatrics** 1987, 24: 461-466.

4. Khurana S, Singh S, Marwaha RK, Khurana S. Lactose free formulations. **Indian Pediatrics** 1987, 24: 528 (Letter).

1986

3. Singh S, Subramaniam S. Theophylline kinetics in bronchial asthma. **Indian Pediatrics** 1986, 23: 848.

2. Kumar L, Singh S. Bronchiolitis. **Indian Pediatrics** 1986, 23 (Suppl.): 61-68.

1. Kumar L, Singh S. Croup Syndrome. **Indian Pediatrics** 1986, 23 (Suppl.): 69-80.

Annexure 9

Authorship / editorship of books:

1. Nelson Essentials of Pediatrics, 1st South Asia edition.

Eds. Marcadante KJ, Kliegman RM, Mishra OP, Prabhu SS, **Singh S.** Elsevier, New Delhi, 2016.

2. Advances in Primary Immunodeficiency Disorders.

Eds. Gupta S, Singh S. Indian Journal of Pediatrics, New Delhi, 2017.

3. Primary Immunodeficiency Disorders.

Eds. **Singh S**, Radhakrishnan N. Jaypee Brothers Medical Publishers Pvt. Ltd., New Delhi, 2015.

4. Pediatric Rheumatology, 2nd. Edn.

Eds. **Singh S**, Gupta A, Rawat A, Suri D. Peepee Publishers, New Delhi, 2014.

5. Pediatric Rheumatology, 1st. Edn.

Singh S. Peepee Publishers, New Delhi, 2005.

Ed.

6. Indian Academy of Pediatrics Guide Book on Immunization.

Eds. Dubey AP, **Singh S.** Cambridge Publishers, New Delhi, 2005.

Annexure 10

Chapters in books (111)

2019

111. Palaria RK, **Singh S.** Kawasaki disease. In: Periodic and Non-Periodic Fevers (Rare Diseases of the Immune System). Springer Nature Switzerland AG. Springer International Publishing. eBook ISBN 978-3-030-19055-2. Doi: 10.1007/978-3-030-19055-2. Series ISSN 2282-6505.

110. Singh S, Rawat A. Primary Immunodeficiency Disorders: Approach and Diagnosis. In: **Association of Physicians of India Textbook of Medicine**, 11th. Edn. Eds. Kamath SA, Shah SN, Nadkar MY. CBS Publishers and Distributors Pvt. Ltd., New Delhi, 2019, pp. 464-469.

2018

109. Sinha A, **Singh S.** Immunization and immunodeficiency. In: Ghai Essential Pediatrics, 9th. edn. Eds. Paul VK, Bagga A. CBS Publishers and Distributors Pvt. Ltd., New Delhi, 2018, Pp.178-204.

108. **Singh S.** Rheumatological disorders. In: Ghai Essential Pediatrics, 9th. edn. Eds. Paul VK, Bagga A. CBS Publishers and Distributors Pvt. Ltd., New Delhi, 2018, Pp. 620-630

107. Raj R, **Singh S.** Approach to diagnosis and management of Primary Immunodeficiency Disorders. In: PG Textbook of Pediatrics, 2nd. Edn. In: Eds. Gupta P, Menon PSN, Ramji S, Lodha R. Jaypee Brothers, New Delhi, 2018, pp. 201-204.

106. Khan S, **Singh S.** Intravenous immunoglobulin. In: PG Textbook of Pediatrics, 2nd. Edn. In: Eds. Gupta P, Menon PSN, Ramji S, Lodha R. Jaypee Brothers, New Delhi, 2018, pp. 204-209.

105. Agarwal S, **Singh S**. Medium vessel vasculitis: Kawasaki Disease and Polyarteritis nodosa. In: PG Textbook of Pediatrics, 2nd. Edn. In: Eds. Gupta P, Menon PSN, Ramji S, Lodha R. Jaypee Brothers, New Delhi, 2018, pp. 2955-2959

104. **Singh S**, Kamath N. Kawasaki Disease. In: Manual of Rheumatology, 5th. Edn. Eds. Chaturvedi V, Thabrah M, Danda D, Guota R, Negi VS, Ravindran V, Misra DP, Vasdev V. CBS Publishers, New Delhi, 2018, pp. 439-446.

2017

103. Jindal AK, **Singh S**. Vasculitis. In: Parthasarathy A, Nedunchelian K, Gupta A, Borker AS, Choudhury J, Dharmapalan D, Kumar R. In: Partha' s 101 clinical pearls in pediatrics. 1st edition; Jaypee brothers , New Delhi. 2017, pp. 418-430.

102. Jindal AK, **Singh S**. Juvenile idiopathic arthritis. In: Parthasarathy A, Nedunchelian K, Gupta A, Borker AS, Choudhury J, Dharmapalan D, Kumar R. In: Partha' s 101 clinical pearls in pediatrics. 1st edition; Jaypee brothers , New Delhi. 2017, pp. 407-418.

101. Jindal AK, **Singh S**. Kawasaki disease. In: Parthasarathy A, Nedunchelian K, Gupta A, Borker AS, Choudhury J, Dharmapalan D, Kumar R. In: Partha' s 101 clinical pearls in pediatrics. 1st edition; Jaypee brothers , New Delhi. 2017, pp. 402-407.

100. Jindal AK, **Singh S**. Systemic lupus erythematosus. In: Parthasarathy A, Nedunchelian K, Gupta A, Borker AS, Choudhury J, Dharmapalan D, Kumar R. In: Partha' s 101 clinical pearls in pediatrics. 1st edition; Jaypee brothers , New Delhi. 2017, pp. 392-402.

2016

99. Haftel HM, **Singh S**. Rheumatic Disease of Childhood. In: Marcdante KJ, Kliegman RM, Mishra OP, Prabhu SS, **Singh S**. In: **Nelson Essentials of Pediatrics, 1st South Asia edition**, Elsevier, New Delhi. 2016, pp. 284-302.

98. **Singh S**. Other Rheumatological Disorders of Childhood. In: Parthasarathy A, Nair MKC, Menon PSN, Kundu R. IAP TEXTBOOK OF PEDIATRICS. 6th edition. New Delhi: Jaypee brothers; 2016. P. 1013-1015.

97. **Singh S**. Kawasaki Disease. In: Parthasarathy A, Nair MKC, Menon PSN, Kundu R. IAP TEXTBOOK OF PEDIATRICS. 6th edition. New Delhi: Jaypee brothers; 2016. P. 1011-1012.

96. **Singh S**. Approach to Vasculitis in Children. In: Parthasarathy A, Nair MKC, Menon PSN, Kundu R. IAP TEXTBOOK OF PEDIATRICS. 6th edition. New Delhi: Jaypee brothers; 2016. P. 1009-1010.

95. **Singh S**. Systemic Lupus Erythematosus. In: Parthasarathy A, Nair MKC, Menon PSN, Kundu R. IAP TEXTBOOK OF PEDIATRICS. 6th edition. New Delhi: Jaypee brothers; 2016. P. 1006-1008.

94. **Singh S**, Kumar A. Rheumatological problems. In: Bhavé SY, Menon PSN, Parthasarathy A. Bhavé's textbook of Adolescent Medicine. 2nd edition. New Delhi: PeePee publishers; 2016.p. 215-220

93. **Singh S**, Sharma D. Rheumatology. In: Parthasarathy A, Nair MKC, Menon PSN, Kundu R. IAP Management Algorithm for Common Pediatric Illnesses. 1st edition. New Delhi: Jaypee brothers; 2016.p. 239-248

92. **Singh S**, Vignesh P. Rheumatology. In: Parthasarathy A, Gupta A, Borker AS, Dharmapalan D. Partha's Management Protocols in Pediatric and Adolescent Practice. New Delhi: Jaypee brothers; 2016.p.344-360.

91. Sharma A, **Singh S**. Evolution of Diagnostic Criteria for Acute Rheumatic Fever: 1944 to 2015. In: Singhi P, Mathew JL. Current Pediatric Practice, Series-IV. New Delhi: PeePee publishers; 2016.p.27-32.

90. Kumar A, **Singh S**. Immunization Against Tuberculosis. In: Thacker N, Shah NK. Immunization in Clinical Practice, Vol. 2. New Delhi: Jaypee Brothers; 2016. P. 69-84

2015

89. Raj R, **Singh S**. Therapy for primary immunodeficiency disorders. In: Gupta P, Menon PSN, Ramji S, Lodha R. PG Textbook of Pediatrics, Vol 1. New Delhi: Jaypee Brothers; 2015.p. 177-178.

88. Khan S, **Singh S**. Therapy for primary immunodeficiency disorders. In: Gupta P, Menon PSN, Ramji S, Lodha R. PG Textbook of Pediatrics, Vol 1. New Delhi: Jaypee Brothers; 2015.p. 178-183.

87. Agarwal S, **Singh S**. Medium vessel vasculitis: Kawasaki Disease and Polyarteritis nodosa. In: Gupta P, Menon PSN, Ramji S, Lodha R. PG Textbook of Pediatrics, Vol 3. New Delhi: Jaypee Brothers; 2015.p. 2539-2542.

86. **Singh S**. Approach to a patient with suspected primary

immunodeficiency disorder. **Association of Physicians of India Textbook of Medicine**, 10th. Edn. Eds. Munjal YP, Sharma SK. Jaypee Brothers, New Delhi, 2015, pp. 249-255.

85. Aggarwal S, **Singh S**. Kawasaki Disease. In: Monograph on Vasculitis. Ed. Narsimulu G. Association of Physicians of India and Indian College of Physicians, Mumbai, 2015, pp. 123-132.

84. Bhattad S, **Singh S**. Questions in Pediatric Rheumatology. In: Frequently asked questions in Pediatric and Adolescent Practice. Rheumatology. Eds. Parthasarathy A, Borker AS, Gupta A, Dharmapalan D. Jaypee Brothers Medical Publishers Pvt. Ltd., New Delhi, 2015, pp. 561-584.

83. Bhattad S, **Singh S**. Kawasaki Disease. In: Pediatric Rheumatology, 2nd. edn. Eds. Singh S, Gupta A, Rawat A, Suri D. Pee Pee Publishers, New Delhi, 2015, pp. 176-182.

82. Madhusudan S, **Singh S**. Kawasaki Disease. In: Textbook of Systemic Vasculitis. Sharma A. Jaypee Brothers Medical Publishers Pvt. Ltd., New Delhi, 2015, 272-276.

81. Bhattad S, **Singh S**. Immunodeficiency in subspecialties: Pulmonology and Dermatology. In: Primary Immunodeficiency Disorders. Eds. Singh S, Radhakrishnan N. Jaypee Brothers Medical Publishers Pvt. Ltd., New Delhi, 2015, pp. 35-46.

80. Sharma D, **Singh S**. Immunodeficiency in subspecialties: Rheumatology. In: Primary Immunodeficiency Disorders. Eds. Singh S, Radhakrishnan N. Jaypee Brothers Medical Publishers Pvt. Ltd., New Delhi, 2015, pp. 47-51.

79. Sharma D, **Singh S**. Immunodeficiency in subspecialties: Gastroenterology. In: Primary Immunodeficiency Disorders. Eds. Singh S, Radhakrishnan N. Jaypee Brothers Medical Publishers Pvt. Ltd., New Delhi, 2015, pp. 52-58.

78. Sharma A, **Singh S**. Treatment of Primary Immunodeficiency Disorders in the Indian context – replacement immunoglobulin. In: Primary Immunodeficiency Disorders. Eds. 78. Singh S, Radhakrishnan N. Jaypee Brothers Medical Publishers Pvt. Ltd., New Delhi, 2015, pp. 59-64.

2014

77. Southwood TR, Malleson S, **Singh S**, Scott C. Rheumatology. In: International Maternal and Child Health Care. Ed. Southall D. Radcliffe Publishers Ltd., London, 2014, pp. 569-573.

76. Rawat A, **Singh S**. Immunological Correlates of protection induced by vaccines. In: Indian Academy of Pediatrics Textbook of Vaccines. Eds. Vashsihtha VM, Agarwal R, Sukumaran TU. Jaypee Brothers Medical Publishers Pvt. Ltd., New Delhi, 2014, pp. 33-39.

75. Abujam B, **Singh S**. Cases in rheumatology. In: Case scenarios in pediatric and adolescent practice. Ed. Parthasarathy A. Jaypee Bros. Medical Publishers (P) Ltd., New Delhi, 2014, pp. 565-595.

74. **Singh S**, Kamath N. Kawasaki disease. In: Manual of Rheumatology (Indian Rheumatology Association), 4th. edn. Ed. Rao URK. The National Book Depot, Mumbai, 2014, pp. 418-423.

2013

73. Abujam B, **Singh S**. Risk of children born to mothers with rheumatic diseases. In: Rheumatic Diseases in women and children. Current perspectives. Eds. Sharma SK, Sawhney S. Jaypee Brothers Medical Publishers (P) Ltd., New Delhi, 2013, pp. 73-80.

72. Sinha A, **Singh S**. Immunization and immunodeficiency. In: Ghai Essential Pediatrics, 8th. edn. Eds. Paul VK, Bagga A. CBS

Publishers and Distributors Pvt. Ltd., New Delhi, 2013, Pp.184-208.

71. Singh S. Rheumatological disorders. In: Ghai Essential Pediatrics, 8th. edn. Eds. Paul VK, Bagga A. CBS Publishers and Distributors Pvt. Ltd., New Delhi, 2013, Pp. 624-634

70. Singh S. Approach to vasculitis in children. In: IAP Textbook of Pediatrics, 5th. edn. Eds. Parthasarathy A, Menon PSN, Gupta P, Nair MKC. Jaypee Brothers Medical Publishers, New Delhi, 2013, Pp. 873-875.

69. Singh S. Other rheumatological disorders in children. In: IAP Textbook of Pediatrics, 5th. edn. Eds. Parthasarathy A, Menon PSN, Gupta P, Nair MKC. Jaypee Brothers Medical Publishers, New Delhi, 2013, pp. 878-879.

68. Singh S, Gupta A. Rheumatological disorders in children. In: Partha's Fundamentals of Pediatrics, 2nd. Edn. Eds. Parthasarathy A, Borker AS, Nair MKC, Bhawe SY. Jaypee Bros. Medical Publishers, New Delhi, 2013, pp. 454-464.

67. Gupta A, Singh S. Outcome of juvenile idiopathic arthritis. In: Monograph on rheumatoid arthritis. Eds. Mukherjee S, Ghosh A. Published by Indian College of Physicians, Mumbai, 2012, pp. 225-230.

66. Singh S, Suri D. Kawasaki Disease. In: Treatment and prognosis in Pediatrics. Eds. Ghosh A, Mitra M, Choudhury J. Jaypee Bros. Medical Publishers Pvt. Ltd., 2013, pp. 3380340.

2012

65. Singh S. Anaphylaxis. **Medical Emergencies in children**, 5th. Edn. Ed. Singh M. Sagar Publications, New Delhi, 2012, pp. 58-63.

64. Singh S. Acute fever with a skin rash. In: **Medical Emergencies in children**, 5th. Edn. Ed. Singh M. Sagar Publications, New Delhi, 2012, pp. 193-203.

63. Gupta A, Singh S. Outcome of juvenile idiopathic arthritis. In: **Monograph on rheumatoid arthritis**. Eds. Mukherjee S, Ghosh A. Published by Indian College of Physicians, Mumbai, 2012, pp. 225-230.

62. Singh S. Rheumatological disorders in children. In: **Partha's Fundamentals of Pediatrics**. Eds. Parthasarathy A, Menon PSN, Nair MKC, Bhawe SY. Jaypee Brothers, New Delhi, 2012 (In Press).

61. Singh S. Primary immunodeficiency disorders – a clinical approach. In: **Association of Physicians of India Textbook of Medicine**, 9th. Edn. Eds. Munjal YP, Sharma SK. Jaypee Brothers, New Delhi, 2012, pp. 151-154.

60. Singh S, Suri D. Guidelines for prevention of perinatal HIV infection. In: **Sexually Transmitted Infections**, 2nd. Edn. Eds. Gupta S, Kumar B. Elsevier, New Delhi, 2012, pp. 1345-1357.

2011

59. Singh S. Recent advances in use of biologicals in Juvenile Idiopathic Arthritis. **Recent Advances in Pediatrics**, Eds. Bansal RK, Gupta RK, Patni T. Indian Academy of Pediatrics, Mumbai, 2011; Pp. 218-221.

2010

58. Mahajan V, **Singh S**. Pediatric rheumatological disorders. In: **Rheumatology: Principles and Practice**. Eds. Syngle A, Deodhar SD. Jaypee Publishers, New Delhi, 2010, pp. 325-333.

2009

57. **Singh S**, Jat KR. Immunodeficiency in relation to respiratory infections in children. In: **Textbook of Practical Pediatric Pulmonology**. Ed. Paramesh H. Jaypee Publishers, New Delhi, 2009, pp.123-127.

56. Seth P, **Singh S**, Sinha A. Immunodeficiency disorders. In: **Essential Pediatrics**, 7th. Edn. Eds. Ghai OP, Paul VK, Bagga A. CBS Publishers and Distributors, New Delhi, 2009, Immunity and Immunization. 160-180.

55. **Singh S**. Rheumatological disorders. In: **Essential Pediatrics**, 7th. Edn. Eds. Ghai OP, Paul VK, Bagga A. CBS Publishers and Distributors, New Delhi, 2009, pp. 598-608.

54. **Singh S**, Kamath N. Kawasaki disease. In: **Manual of Rheumatology**, 3rd. edn. Eds. Rao URK, Pispati P, Mahendranath KM. The National Book Depot, Mumbai, 2009, pp. 291-296.

53. **Singh S**. Rheumatic Diseases and Uveitis. In: **Uveitis – Text and Imaging**. Eds. Gupta A, Gupta V, Herbert CP, Khairallah M. Jaypee Brothers, New Delhi, 2009, pp. 722-731.

52. **Singh S**, Jindal G, Ramesh S. Disorders of immunity and allergy. In: **Achar's Textbook of Pediatrics**, 4th. Edn. Ed. Bhatt SR. Universities Press, Chennai, 2009, pp. 331-40.

51. **Singh S**, Jindal G. Rheumatological disorders of childhood. In: **Achar's Textbook of Pediatrics**, 4th. Edn. Ed. Bhatt SR. Universities Press, Chennai, 2009, pp. 357-67.

50. **Singh S**, Paramesh H. Immunodeficiency Disorders. In: **Indian Academy of Pediatrics Textbook of Pediatrics**, 4th. edn. Eds. Parthasarathy A, Agarwal RK, Choudhury P, Thacker NC, Ugra D. Jaypee Publishers, New Delhi, 2009, pp. 1085-1087.

49. **Singh S**. Antiphospholipid Syndrome. In: **Indian Academy of Pediatrics Textbook of Pediatrics**, 4th. edn. Eds. Parthasarathy A, Agarwal RK, Choudhury P, Thacker NC, Ugra D. Jaypee Publishers, New Delhi, 2009, pp. 1112-1113.

48. **Singh S**. Approach to vasculitis in children. In: **Indian Academy of Pediatrics Textbook of Pediatrics**, 4th. edn. Eds. Parthasarathy A, Agarwal RK, Choudhury P, Thacker NC, Ugra D. Jaypee Publishers, New Delhi, 2009, Pp. 1113-1114.

47. **Singh S**. Intravenous Immunoglobulin. In: **Indian Academy of Pediatrics Textbook of Pediatrics**, 4th. edn. Eds. Parthasarathy A, Agarwal RK, Choudhury P, Thacker NC, Ugra D. Jaypee Publishers, New Delhi, 2009, Pp.1118-1119.

2008

46. **Singh S**. Primary immunodeficiency disorders in India: the physician perspective. In: **Focus on Immunodeficiencies. Pharmaceuticals policy and law**. Eds. Valverde JL, Watters D. IOS Press, Amsterdam, 2008, pp. 121-30.

45. **Singh S**. Primary and secondary immunodeficiency states. **Association of Physicians of India Textbook of Medicine**, 8th. edn. Eds. Shah SN, Anand MP. Published by Association of Physicians of India, Mumbai, 2008, pp. 249-253.

44. **Singh S**. Heritable connective tissue disorders in children. **Association of Physicians of India Textbook of Medicine**, 8th. edn. Eds. Shah SN, Anand MP. Published by Association of Physicians of India, Mumbai, 2008, pp. 337-341.

2007

43. **Singh S**. Acute fever with a rash. In: **Medical Emergencies in children**, 4th. Edn. Ed. Singh M. Sagar Publications, New Delhi, 2007, pp. 297-307.

42. **Singh S**. Anaphylaxis. In: **Medical Emergencies in children**, 4th. Edn. Ed. Singh M. Sagar Publications, New Delhi, 2007, pp. 231-235.

41. **Singh S**. Basic immunology and immunological disorders in children. In: **Partha's Fundamentals of Pediatrics**. Eds. Parthasarathy A, Menon PSN, Nair MKC, Bhavé SY. Jaypee Brothers, New Delhi, 2007, pp.555-563.

40. **Singh S**. Rheumatological disorders in children. In: **Partha's Fundamentals of Pediatrics**. Eds. Parthasarathy A, Menon PSN, Nair MKC, Bhavé SY. Jaypee Brothers, New Delhi, 2007, pp.563-575.

2006

39. Dhawan M, **Singh S**. Kawasaki disease. In: **Pediatric Rheumatology**. Ed. Singh S. Peepee Publishers, New Delhi, 2006, pp. 125-133.
38. **Singh S**, Paramesh H. Immunodeficiency disorders. In: **Indian Academy of Pediatrics Textbook of Pediatrics**, 3rd. Edn. Ed. Parthasarathy A, Nair MKC, Menon PSN. Jaypee Publishers, New Delhi, 2006, pp. 857-860.
37. **Singh S**, Gupta MK. Idiopathic inflammatory myopathies in adolescents. In: **Bhave's Textbook of Adolescent Medicine**. Ed. Bhave SY. Jaypee Brothers, New Delhi, 2006, Pp.471-479.
36. **Singh S**, Suri D. Use and misuse of NSAIDs in adolescents. In: **Bhave's Textbook of Adolescent Medicine**. Ed. Bhave SY. Jaypee Brothers, New Delhi, 2006, Pp.479-484.

2005

35. **Singh S**, Kansra S. Kawasaki Disease: Diagnostic perspectives. In: **Recent Advances in Pediatrics** -15. Ed. Gupte S. Jaypee Brothers, New Delhi, 2005, pp. 459-466.
34. **Singh S**, Jindal G. Immunization against tuberculosis. In: **Immunization in clinical practice**. Eds. Thacker N, Shah NK. Jaypee Bros., New Delhi, 2005, pp. 55-65.
33. **Singh S**, Kumar R. Newer vaccines and vaccines under development. In: **Immunization for children**. Eds. Shendurnikar N, Agrawal M. Paras Medical Publishers, Hyderabad, 2005, 258-282.
32. **Singh S**. Treatment of Human Immunodeficiency Virus infection and AIDS in children. In: **Sexually Transmitted Infections**. Ed. Kumar B, Gupta S. Elsevier, New Delhi, 2005, pp. 864-871.
31. **Singh S**. Opportunistic infections in children with HIV infection and AIDS. In: **Sexually Transmitted Infections**. Ed. Kumar B, Gupta S. Elsevier, New Delhi, 2005, pp. 818-822.

2004

30. **Singh S**. Collagen Vascular Disorders. In: **Essential Pediatrics**, 6th. Edn. Ghai OP, Gupta P, Paul VK. CBS Publishers, New Delhi, 2004, pp. 581-588.
29. **Singh S**. Immunodeficiencies. In: **Essential Pediatrics**, 6th. Edn. Ghai OP, Gupta P, Paul VK. CBS Publishers, New Delhi, 2004, pp. 187-189.
28. **Singh S**, Walia A. Juvenile rheumatoid arthritis. In: **Recent Advances in Pediatrics** -14. Ed. Gupte S. Jaypee Brothers, New Delhi, 2004, 202-212.
27. **Singh S**, Kansra S. Emergencies in Pediatric Rheumatology. In: **Textbook of Pediatric Emergencies**. Ed. Gupte S. Peepee Publishers, Delhi, 2004, pp.363-370.

2003

26. **Singh S**. Development of the immune system. In: **Neonatal Hematology-Oncology**. Ed. Lokeshwar MR. Jaypee Publishers, New Delhi, 2003, pp. 55-64.
25. **Singh S**. Kawasaki Disease. In: **Infectious Diseases in Children and Newer Vaccines** : Part II. Eds. Ghosh TK, Kalra A. An IAP Infectious Diseases Chapter Publication, Ahmedabad, 2003: 67-68.

2002

24. **Singh S**, Paramesh H. Immunodeficiency Disorders. In: **Indian Academy of Pediatrics (IAP) Textbook of Pediatrics**, 2nd. Edn. Eds. Parthasarthy A, Menon PSN, Nair MKC. Jaypee Publishers 2002, pp. 696-698

2000

23. **Singh S**. Anaphylaxis. In : **Textbook of Pediatric Emergencies**, 2nd.Edn. Ed. Singh M. Interprint , New Delhi, 2000,pp.170-75.
22. **Singh S**. Rheumatic Disorders. In : **Essential Pediatrics**, 5th.Edn. Eds.Ghai OP, Gupta P, Paul VK. Interprint , New Delhi, 2000, pp. 428 - 433.
21. **Singh S**. Immunodeficiencies. In : **Essential Pediatrics**, 5th.Edn. Eds.Ghai OP, Gupta P, Paul VK. Interprint , New Delhi, 2000, pp.164 -165.
20. **Singh S**, Ramachandran VG. Physiology of Immune System. In : **Essential Pediatrics**, 5th.Edn. Eds.Ghai OP, Gupta P, Paul VK. Interprint, New Delhi, 2000, pp.160 - 163.

1999

19. **Singh S.** Immunodeficiency Disorders. In: **Indian Academy of Pediatrics (IAP) Textbook of Pediatrics**. Eds. Parthasarthy A, Menon PSN, Nair MKC. Jaypee Publishers 1999, pp. 626-628.
18. **Singh S.** Kawasaki Disease. In: **Recent Advances in Pediatrics** (9). Ed. Gupte S. Jaypee Publishers, New Delhi, 1999, pp. 251-57.
17. Trehan A, **Singh S.** Intravenous Immunoglobulin. In : **Recent Advances in Pediatrics** (9). Ed. Gupte S. Jaypee Publishers, New Delhi, 1999, pp. 258-268.
16. **Singh S.** Juvenile Rheumatoid Arthritis. In: **Issues in Tropical Pediatrics**. Eds. Gupta A, Bhasin HS, Sharma M. Jaipur Printers, 1999, pp. 72-74.
15. **Singh S.** Kawasaki Disease. In : **Pediatrics For You**, Vol.4. Ed. Agrawal S. Modern Press, Raipur, 1999, pp. 109-113.

1998

14. Halwai GD, Kumar L, **Singh S**, Sehgal S. Clinical and autoantibody profile in family members of children with systemic lupus erythematosus. In: **Proceedings of XXII International Congress of Pediatrics 1998**. Van Zuiden Communications B.V., Amsterdam, 1998, 108, WE-FP 3-6.

1997

13. **Singh S.** Kawasaki Disease. **Proceedings of Update in Pediatric Immunology**, 1997. Eds. Singh S, Kumar L. pp. 54-58.

1996

12. **Singh S.** Human Immunodeficiency Virus Infection. In : **Frontiers in Pediatrics**. Eds. Sachdev HPS, Choudhury P. Jaypee Publishers, New Delhi, 1996, pp. 102-115.
11. **Singh S**, Marwaha RK. Pediatric Human Immunodeficiency Virus Infection : Indian perspectives. In : **Recent Advances in Pediatrics** (6). Ed. Gupte S. Jaypee Publishers, New Delhi, 1996, pp. 123-135.

1994

10. Sarkar B, **Singh S**, Singla A, Kumar L. BCG lymphadenitis – conservative management. In: **Scientific Abstracts, VIII Asian Congress of Pediatrics & XXXI National Conference of Indian Academy of Pediatrics**. Eds. Sachdev HPS, Puri RK, Verma IC. Jaypee Publishers, New Delhi, 1994, pp. 52.
9. **Singh S.** Management of malnutrition. In: **Protein Energy Malnutrition**. Eds. Sachdev HPS, Dubey AP. Jaypee Publishers New Delhi, 1994, pp. 114-124.

1991

8. **Singh S**, Levinsky RJ, Strobel S, Jobe O, Whittle H, Morgan G. High levels of circulating gamma-delta T cells in children with malnutrition and under investigation for immunodeficiency. In: **Progress in Immune Deficiency III**. Eds. Chapel HM, Levinsky RJ, Webster ADB. Royal Society of Medicine Services International Congress and Symposium Series No. 173, 1991, pp. 320.

1990

7. Kumar L, Walia BNS, **Singh S.** Acute respiratory infections. In: **Health care of women and children in developing countries**. Eds. Wallace HM, Giri K. Third Party Publishing Company, California, 1990, pp. 349-363.
6. Kumar L, **Singh S.** Croup Syndrome. In: **Pediatric and Neonatal Emergencies**. Eds. Srivastava RN, Man Mohan, Sachdev HPS, Puri RK. Indian Academy of Pediatrics, New Delhi, 1990, pp. 49-60.
5. Kumar L, **Singh S.** Bronchiolitis. In: **Pediatric and Neonatal Emergencies**. Eds. Srivastava RN, Man Mohan, Sachdev HPS, Puri RK. Indian Academy of Pediatrics, New Delhi, 1990, pp. 61-69.
4. Narang A, **Singh S.** Ventilatory Therapy. In : **Pediatric and Neonatal Emergencies**. Eds. Srivastava RN, Man Mohan, Sachdev HPS, Puri RK. Indian Academy of Pediatrics, New Delhi, 1990, pp. 370 -75.

1987

3. **Singh S**, Walia BNS. Development of referral services for optimal child health. In: **Child Health and Manpower 2000 A.D.** Report and Recommendations. Eds. Mittal SK, Ramji S. Super Printers, New Delhi, 1987, pp. 96-105.

1986

2. Walia BNS, **Singh S.** Manpower resources and logistics for pediatric referral services. **Current Trends in Pediatrics.** Ed. Singh M. Vanity Books Publishers, New Delhi, 1986, pp. 1-7.

1. **Singh S,** Singhi S. Environmental lead pollution. In: **Environmental pollution and health hazards in India.** Ed. Kumar R. Ashish Publishing House, New Delhi, 1986, pp. 280-285.

Annexure 11

Community outreach and patient welfare activities:

A. Service in rural areas/field work:

1. Worked in the **Ramgarh and Barwala villages** of Naraingarh Block, Haryana, India from 01.05.1987-30.06.1987 as a Senior Resident for the community outreach programmes of the Departments of Paediatrics and Community Medicine, PGIMER, Chandigarh, India.
2. Worked as one of the **Team Leaders** for the **Pulse Polio Programme** during 1999-2000 in villages around Chandigarh, India.

B. Community work and outreach activities:

1. Community activities related to training of health manpower for the management of patients with HIV/AIDS:

- a. Have been participating in the training of health care workers in Antiretroviral Therapy under the auspices of **National AIDS Control Organization and the State AIDS Control Society** at Chandigarh, India.
- b. Participated as faculty at the **State Consultative Meeting on Antiretroviral Treatment Access/Education** under the auspices of **Indian Network for People Living with HIV/AIDS**, at Chandigarh, India.
- c. Participated as a resource person for **training of counselors** on “**Prevention of parent to child transmission of HIV infection**” under the auspices of **Punjab State AIDS Control Society**.
- d. Participated as faculty for the training programme on HIV/AIDS under the **National AIDS Control Project** at the Government Medical College Hospital, Chandigarh, India (2001).

2. Misc. activities related to community outreach programmes of the government:

- a. Have been participating as **Guest Faculty** for training of medical officers at the **State Institute of Health and Family Welfare, SAS Nagar, Punjab, India**.
- b. Have been participating as **Guest Faculty** for training of medical officers at the **State Institute of Health and Family Welfare, Panchkula, Haryana, India**.

3. Was the **State Coordinator** of the Indian Academy of Pediatrics for the **Acute Flaccid Paralysis Surveillance** in Chandigarh for the years 1996-97 and 1997- 98.

4. Participated as faculty for the **Indian Academy of Paediatrics** and **Government of India Reproductive and Child Health Workshop**, Chandigarh (1999).

5. Faculty for the **Jai Vigyan Mission Mode Project** of the Indian Council of Medical Research on **Control of Rheumatic Fever and Rheumatic Heart Disease in Ropar District, Punjab** (2002).

C. Patient welfare activities:

1. Parents of children with Primary Immunodeficiency Disorders registered at our centre have formed the **Indian Patients Society for Primary Immunodeficiencies (IPSPI)** – www.ipspiindia.org. I serve as one of the Hony. Medical Advisors to this society. The IPSPI is now affiliated with, recognized by and accredited to the **International Patient Organization for Primary Immunodeficiencies (IPOPI)**. As a result of the activities of the IPSPI and help provided by other non-governmental organizations and philanthropists, we are in a position to facilitate the supply of

regular Intravenous Immunoglobulin (IVIG) therapy for our patients with hypogammaglobulinemia. **Our unit is the only unit in the country to be providing such service to children with hypogammaglobulinemia.**

The IPSPI has been observing the World Immunology Day on 29 April every year by holding charity events and press conferences.

2. Parents of some of our earliest patients with Kawasaki Disease (KD) have joined together to form the Kawasaki Awareness Society (www.kawasakiawarenesssocietychandigarh.org) on the lines of the Kawasaki Foundation, USA. Treatment of KD involves the administration of IVIG to the affected child within 10 days of onset of fever. IVIG is a very expensive drug and most centres in developing countries are unable to treat patients when the family is not in a position to afford such therapy.

Our unit is the only unit in India where all patients with KD so far have been treated promptly with IVIG, irrespective of whether the parents can afford the treatment or not. This is largely because of the support provided by the Kawasaki Awareness Group as also of other donors and nongovernmental organizations. The **Kawasaki Disease Foundation (www.kdfoundation.org), USA**, has also supported our efforts.

3. I have been a regular contributor to the lay press (especially Health Tribune, Chandigarh) and have written several articles on issues related to Paediatric Immunology. Most of these articles pertain to the early recognition of Kawasaki Disease and the problems faced by parents of children with Primary Immunodeficiency Disorders. We have also arranged formal press conferences to increase public awareness related to these diseases.

D. Misc. activities:

I have been a regular blood donor and have had the privilege of having donated blood 58 times. I have also been the convener of 44 Blood Donation Camps organized by the postgraduate students of the Department of Pediatrics, Advanced Pediatrics Centre, Post Graduate Institute of Medical education and Research, Chandigarh, India during the period 1997-2013.

Annexure 12

Scientific meetings organized

Was the Organizing Secretary/Chairperson for the following national / international conferences:

1. National Update in Paediatric Immunology, Chandigarh, India (1997)
2. 33rd. Annual Conference of the Indian College of Allergy, Asthma and Applied Immunology, Chandigarh, India (1999)
3. International CME in Paediatric Rheumatology – a “Meet the Experts” programme, Chandigarh, India (2001)
4. 3rd. National Conference of Paediatric Rheumatology, Chandigarh, India (2005):
Dr. Tomisaku Kawasaki delivered the Conference Oration at this meeting
5. 1st. International Conference on Primary Immunodeficiency Diseases, New Delhi, India (2011)
6. 1st. National Conference on Primary Immunodeficiency Diseases, Chandigarh, India (2012)
7. 12th. National Conference of Pediatric Rheumatology Society and 3rd. Kawasaki Disease Summit, Chandigarh, India (2014)
8. 1st. National Conference of Kawasaki Disease Society of India and 6th. Kawasaki Disease Summit, Chandigarh (2018)
9. Organizing Chairperson for 13 Clinical Workshops (between 2015-2019) of Indian Council of Medical Research on Primary Immunodeficiencies organized at PGIMER, Chandigarh under the auspices of Centre for Advanced Research in Primary Immunodeficiency Diseases, Advanced Pediatrics Centre, PGIMER, Chandigarh.

Annexure 13

Research grants

A. Indian Council of Medical Research:

1. **Centre for Advanced Research in Primary Immunodeficiency Diseases, Indian Council of Medical Research (2015-2020): Principal Investigator**
5-year project of the Indian Council of Medical Research and Department of Health Research, Government of India, entitled, *“Studies for Diagnosis, Research and Therapy of Primary Immune Deficiency Diseases at PGIMER, Chandigarh”*.
2. Multicentric Collaborative Study of the National Registry for Rare Diseases in India (Principal Investigator for Chandigarh Centre, 2019-2024:
Principal Investigator
3. Serosurveillance for antibodies to the Human Immunodeficiency Virus in cord blood of neonates at Chandigarh, 1993-1996: Principal Investigator.
4. Multicentric study on establishment of norms for lymphocyte subsets in children in India, 2011-2013: Principal Investigator for Chandigarh centre.
5. Detection of mutations in the Btk gene in patients with X-linked Agammaglobulinemia and determination of carrier status in phenotypically normal female relatives, 2006-2008: Co-investigator.

B. Department of Biotechnology, Government of India:

1. To study the nuclear role of Wiskott-Aldrich Syndrome Protein (WASP) in non - erythroid blood cell compartments of patients with Wiskott Aldrich syndrome, 2018-2021: Co-investigator.

C. Department of Science and Technology, Government of India:

1. Genetic basis of early onset systemic lupus erythematosus in India and Italy, 2018-2021: Co-investigator. ***An Indo-Italian Project.***

D. Jeffrey Modell Foundation, USA:

1. Studies on excretion of poliovirus in children with humoral immunodeficiencies, 2015-2016: Principal Investigator.
2. Identification of monogenic defects in Indian children with early onset autoimmune cytopenia, 2019-2021: Co-investigator.

E. Hyper-IgM Foundation, USA:

1. Exploration of the differentially expressed mRNA transcripts in the activated CD4+ helper T cells of the X-linked Hyper IgM patients by RNA-seq based whole mRNA transcriptome profiling, 2018-2020: Co-investigator.

F. Department of Science and Technology, UT Chandigarh:

1. Natural history of Bacille-Calmette-Guerin lymphadenitis, 1998-1999: Principal Investigator.

G. Intramural Projects of the Post Graduate Institute of Medical Education and Research, Chandigarh:

1. Gene expression profiling of selected autophagy related genes in patients with Xlinked and Autosomal recessive CGD, 2018-2021: Co-investigator.
2. To investigate chromatin remodeling complex interaction with WASP in patients with Wiskott Aldrich syndrome, 2018-2021: Co-investigatior.

Annexure 14

Member of decision making bodies of universities:

1. Member of the Board of Studies for Post Graduate Medical Education and Research, Panjab University, Chandigarh, India (2007-2010).
2. Member of Governing Body of Eternal University, Himachal Pradesh, India (2010-2012).
3. Member of the Board of Studies for Centre for Public Health, Panjab University, Chandigarh, India (2011-2012).

Member of decision making bodies of Medical Council of India:

1. Member of Board of Speciality in Pediatrics, Medical Council of India, New Delhi (2011).
2. Member of Post Graduate Medical Education Committee, Medical Council of India, New Delhi (2012).

Annexure 15

Member of Technical Expert Groups/Advisory Groups: Extramural

1. Was empanelled as an **Adviser** to the **Union Public Service Commission, New Delhi, India**.
2. Member of the **Indian Council of Medical Research (ICMR) Task Force on Pediatric HIV infection, New Delhi, India (2007)**.
3. Nominated to the **State Advisory Board on Antiretroviral Therapy Programme** under the **National AIDS Control Organization, India**.
4. Represented the **Indian Academy of Pediatrics** at the **Regional Review and Planning Workshop of the Department of Family Welfare and UNICEF** on Surveillance of Vaccine Preventable Diseases, 1996.
5. Member of Expert Group appointed by the Ministry of Health and Family Welfare, New Delhi, for the accreditation of MD Pediatrics programme of selected medical colleges (2006).
6. Member of Expert Committee on **Juvenile Rheumatoid Arthritis, Indian Rheumatology Association**.
7. Member of **Expert Committees of Indian Academy of Pediatrics** for formulating guidelines on **Diagnosis of Tuberculosis in Children** and for **Management of Diarrhea in Children**.
8. Reviewer for: **Guidelines for management of asthma at primary and secondary levels of health care in India : A Consensus Statement** Developed under the World Health Organization - Government of India Collaborative Programme (2004-2005).
9. Expert Committee for the proposed "Centre for Immunology and Molecular Medicine, All India Institute of Medical Sciences, New Delhi".
10. Director, National Co-ordinating Centre for India, Pediatric Rheumatology International Trials Organization (PRINTO), Genoa, Italy.
11. Appointed Member of Standing National Committee on Medicines for revision of National List of Essential Medicines, Ministry of Health and Family Welfare,

Government of India by the Director General, Indian Council of Medical Research.

12.Appointed Member of Expert Group, Indian Council of Medical Research, for formulating Standard Treatment Workflows for common pediatric conditions.

Annexure 16

Member of Technical Expert Groups/Advisory Groups: Intramural

Have served on the following committees within the Post Graduate Institute of Medical Education and Research, Chandigarh:

1. Post Graduate Thesis Committee (Convener): 1997-1998
2. Institute Ethics Committee (Convener): 2005-2006
3. Hospital Infection Control Committee: 1997-1998
4. Core Technical Committees for evaluation of new equipment: 2006-2009.
5. Institute Education Committee (2016 – till date).
6. Secretary, Staff Council (2016 – till date).
7. Institute Drugs Committee (2019 -).

Annexure 17

Visiting Professor / Fellow

1. Served as a Visiting Professor to the B.P. Koirala Institute of Health Sciences, Dharan, Nepal (01.05.2002 - 30.06.2002).
2. Was invited by the RIKEN Research Center for Allergy and Immunology at the RIKEN Institute, Yokohama, Japan, to participate in the First Asia Pacific Symposium on Primary Immunodeficiency Diseases in December 2008 and subsequently at the Second Symposium in Chiba, Japan, February 2010.
3. Was a Visiting Fellow to the Japan Kawasaki Disease Research Centre, Tokyo, in April 2008.
4. Was a Visiting Fellow to the Pediatric Immunology Unit at Queen Mary Hospital, Hong Kong (1999).
5. Visiting Professor in Paediatrics to the Department of Pediatrics, Shaanxi Provincial People's Hospital of Xian, Jiaotong University, Xian, China (29 July – 08 August, 2014).
6. Adjunct Professor of Pediatrics, Manipal Academy of Higher Education, Kasturba Medical College, Mangalore, 2018.

Annexure 18

Other academic credits:

A. Supervision of PhD Theses

I have supervised 8 students for their PhD theses at PGIMER, Chandigarh in the capacity of main guide/co-guide. These projects, some of which were done in collaboration with the Department of Experimental Medicine and Biotechnology of our institute, were as follows:

- 1. Role of reactive oxygen species in Salmonella typhimurium induced intestinal damage.*
- 2. Study of pathophysiology of Shigella dysenteriae 1 toxin in rabbit.*
- 3. The comparison of clinical & laboratory parameters in suspected role of common traditional foods in respiratory allergy.*
- 4. Relationship of Vitamin A status with other micronutrients (Zn & Se) and diarrhea in children.*
- 5. Characterization of collagen binding proteins of Streptococcus pyogenes in North Indian isolates.*
- 6. Protein signature study in serum and skin biopsies, cytokine gene expression and its association with Epstein Barr Virus in pediatric patients with systemic lupus erythematosus.*
- 7. Role of genetic factors and immune dysregulation in paediatric and adult lupus.*
- 8. Role of Cathepsin E and Cathepsin K in the pathogenesis of skeletal manifestations of Hyper-IgE syndrome.*

I am currently supervising 6 PhD theses (as co-guide) at PGIMER, Chandigarh:

1. Autophagy in X-linked and autosomal recessive Chronic Granulomatous Disease.
2. Genetic basis of early onset SLE in India
3. To study ATP dependent chromatin remodelling complex interactions with WASp in patients with Wiskott Aldrich Syndrome
4. Characterization of inflammation induced endothelium dysfunction in Kawasaki disease patients from North India
5. Exploring pathogenic mechanisms underlying T-cell dysfunction in X-linked Hyper IgM syndrome
6. Role of Innate Lymphocytes in Kawasaki disease

B. Supervision of MD Theses

I have supervised 38 postgraduate students for their MD (doctoral) theses in Pediatrics and 4 students for their DM (postdoctoral) theses in Pediatric Clinical Immunology and Rheumatology at PGIMER, Chandigarh.

Annexure 19

Contribution towards development of the speciality of Pediatric Clinical Immunology and Rheumatology in India: A. Setting up of the Pediatric Allergy and Immunology Unit at PGIMER, Chandigarh

After completion of my training in Pediatric Immunology in the United Kingdom, I was redesignated as an Assistant Professor of Pediatric Allergy and Immunology in 1993 and then promoted to Associate Professor (1994) and subsequently Additional Professor (1999) of Pediatric Allergy and Immunology. We started a specialized **Pediatric Allergy and Immunology Unit** in 1993, under the aegis of the Advanced Pediatrics Centre Project of the Government of India. This comprised a 15-bedded inpatient facility, a Clinical Immunology Laboratory and a weekly outpatient Pediatric Rheumatology and Immunology Clinic. This latter clinic now has upwards of 5000 registered children who are on regular follow-up. **Pediatric Immunology is still a fledgling speciality in India** - ours was the first, and is still the only, specialized Paediatric Immunology unit in the country. We have now bifurcated the Pediatric Rheumatology and Immunology Clinic into 2 separate weekly clinics, viz. Pediatric Rheumatology Clinic (every Tuesday) and Pediatric Immunodeficiency Clinic (every Friday).

In one of our initial studies we prospectively followed up children with **BCG lymphadenitis** and showed that expectant line of management can result in almost complete resolution of symptoms and that anti-tubercular therapy is not required in majority of such patients. This work was published in **The Pediatric Infectious Disease Journal**.

B. DM Programme in Pediatric Clinical Immunology and Rheumatology

Our unit has Initiated the **3-years DM Programme in Pediatric Clinical Immunology and Rheumatology** at the Post Graduate Institute of Medical Education and Research, Chandigarh: January 2014. This is the first and, till date, the only such DM programme in Pediatric Immunology in the country. Seven Fellows have already completed their training

and are serving in various parts of the country. Ten more are currently training with us in this programme.

C. Our work on childhood vasculitides, especially Kawasaki Disease

We have the country's largest experience on childhood vasculitides. Of these, especially noteworthy is our work on the hitherto rarely reported **Kawasaki Disease (KD)**. Our unit has been largely responsible for increasing the awareness about KD amongst pediatricians in India. I was the first to use intravenous immunoglobulin for treatment of this condition in our country. Work done in our unit has shown that this condition is actually not being recognized and diagnosed in our country as frequently as it should be. We now have one of the largest cohorts of children with KD on follow-up in India. KD may well turn out to be the **commonest cause of acquired heart disease** in children in our country just as it is in many other countries.

Our work on KD in India has attracted the attention of researchers from several countries. Dr. Tomisaku Kawasaki, the legendary Japanese pediatrician after whom this eponymous disease is named, himself has visited our centre in October 2005. I have the privilege of co-authoring 4 manuscripts with Dr. Kawasaki – in 2009, 2014, 2016 and 2018 respectively. In February 2006, Dr. Jane Burns (*Professor of Pediatrics, University of California, San Diego*) and Prof. Howard Kushner (*Nat C. Robertson Distinguished Professor of Science, Emory University, Atlanta*) visited our centre to document the emergence of KD in India. This visit was funded by the National Institutes of Health, Bethesda and the National Library of Medicine, USA.

I have been amongst the invited international faculty at the IXth. (*Taipei, Taiwan; 2008*), Xth. (*Kyoto, Japan; 2012*), XIth. (*Honolulu, USA; 2015*) and XIIth. (*Yokohama, Japan; 2018*) International Kawasaki Disease Symposia – the only doctor from India to be so invited. In recognition of my contribution to the field of KD, the Indian Rheumatology Association (IRA) conferred the prestigious **IRA Oration** on me in 2010. I have also been

the recipient of the **Dr. K.C. Chaudhuri Oration** (Institute of Child Health, Kolkata), the **Dr. P.R. Dange Orations** (Nagpur- 2005 and 2015), the **Dr. H.K. Gaur Oration** (Surat), the **Annual Rheumatology Oration** (Christian Medical College, Vellore), and the **Dr. Nirmal Miglani Oration** (Jaipur) in recognition of my work in KD.

Similarly, our work on treatment and long-term follow-up of severe nephritis in children with **Henoch-Schonlein Purpura** has been very well received in rheumatology circles. Our follow-up studies on such children have shown that even in children with Class III nephritis, the renal functions have normalized after prolonged therapy with azathioprine and prednisolone. This latter study was published in **Rheumatology International**. In recognition of my contribution to the field of childhood vasculitides, the **Indian Rheumatology Association** conferred the **Zydus Oration** on me in 2003.

D. Other autoimmune disorders

We have established a registry of autoimmune disorders, especially juvenile rheumatoid arthritis (JRA) and systemic lupus erythematosus (SLE). Our study on long-term follow-up of children with SLE has been published in **Clinical Rheumatology**. Work done in the unit on keratoconjunctivitis sicca in children with JRA received the **Sundaramma Award** (1999) of the Indian College of Allergy and Applied Immunology. This study was also subsequently published in **Rheumatology International**. In recognition of my contributions in the field of Autoimmune Disorders in Children, the **Indian College of Allergy, Asthma and Applied Immunology** (ICAAI) invited me to deliver the **Von-Pirquet Oration** in 2002. The ICAAI has also conferred its **Fellowship** on me in 2003.

E. Centre for Advanced Research in Primary Immune

Deficiency Diseases, Indian Council of Medical Research

I am the Principal Investigator for a 5-year project of the Department of Health Research, Government of India and the Indian Council of Medical Research, New Delhi entitled, *“Studies for Diagnosis, Research and Therapy of Primary*

ImmuneDeficiency Diseases (PIDs) at PGIMER, Chandigarh”. This is the first such facility in the country.

F. Registry for Primary Immunodeficiency Disorders

We have established, what is now, the largest registry of children with primary immunodeficiency disorders in India. Ours is the only center in India where patients with **X-linked Agammaglobulinemia, Chronic Granulomatous Disease** and **Hyper-IgE syndrome** are being followed up on a long-term basis. We have shown that it is possible to diagnose and treat these serious and life-threatening immunological disorders even in the context of a developing country set-up, and with minimal resources.

Our unit has the unique distinction of being recognized as a **National Primary Immunodeficiency Referral Centre** by the **Jeffrey Modell Foundation, USA** (www.info4pi.org; www.jmfworld.com). This is the only centre in India to be so designated.

G.Provision of facilities for management of HIV affected children

We conducted a 3-year prospective study financed by the Indian Council of Medical Research on the **serosurveillance of HIV-1 antibodies** in the cord blood of neonates at Chandigarh and showed that the seropositivity rates in this region are approximately **2/1000** population. This was one of the first studies of its kind in India.

Our unit was also amongst the first few centers in India to start diagnosing and treating children with HIV infection. We now have a sizeable cohort of affected children on long-term triple drug **Anti-Retroviral Therapy** – some of these patients have completed 5-7 years of follow-up uneventfully. Our **14 years of clinical experience** in this regard has recently been published in the **Transactions of the Royal Society for Tropical Medicine and Hygiene**.

The Antiretroviral Therapy Centre at our institute has now been identified by the National AIDS Control Organization as a **Centre of Excellence** for education, training, research and service delivery.

H. Founding of the Rheumatology Subspecialty Chapter of Indian Academy of Pediatrics (IAP)

I was a **founder member** of the **Pediatric Rheumatology Subspecialty Chapter of the IAP in 1999-2000**. I was the General Secretary of this chapter for the years 2003-04 and later served as its Chairperson for the years 2005-06. The activities of this chapter have been largely responsible for increasing the awareness about rheumatological (and autoimmune) disorders amongst pediatricians in India.

I. Convener of National Immunization Committee of IAP

I was the **Convener** of the **National Immunization Committee of the Indian Academy of Pediatrics (IAP)** for 2003-04. I have also served as a member of the **Polio Eradication Committee** of the IAP. I was also a Member of the Advisory Committee on Vaccination and Immunization Practices of the IAP (2013-2014).

J. Founding of the Indian Society for Primary Immune Deficiency

I was one of the Founder Members of Indian Society for Primary Immune Deficiency (ISPID) and was nominated President-Elect of ISPID for the term 2011-2012. I was the **President** of **ISPID** for 2013-2014. I was the **Organizing Secretary** for the **First International Conference on Primary Immunodeficiency Diseases** in India, New Delhi, March 2011 (www.pid2011.fpid.org).

K. Founding of Asia Pacific Society for Immunodeficiencies (APSID):

I was one of the Founding Members of the Asia Pacific Society for Immunodeficiencies (APSID) at a meeting held in Osaka, Japan, in April 2015. I have had the privilege of

serving as its Secretary (2016-2018) and as its President-Elect (2018-2020). I am the Chairperson of Organizing Committee of the 3rd. APSID Congress, Chandigarh, February 2020.

L. Misc. activities

I have the privilege of being on the Medical Advisory Panel of the International Patient Organization for Primary Immunodeficiencies (IPOPI – www.ipopi.org). I am the first (and so far the only) doctor from India to be so nominated.

I was among the invited international faculty for the **Global Leaders' Meeting** organized by the **IPOPI** in **London** in October 2009 and November 2011 respectively.

I was an invited speaker at the **First International Primary Immunodeficiencies Congress (IPIC), Lisbon, Portugal**, November 2013, and spoke on “Recent Clinical Developments in Asia”. I was also a member of the Scientific Committee for this meeting. I have also been amongst the invited faculty for **Second IPIC, Budapest, Hungary**, November 2015 and the **Third IPIC, Dubai, UAE**, November 2017 and would be participating as faculty for the forthcoming **Fourth IPIC Madrid, Spain**, November 2019.

I was also invited as a speaker to the **100th. J-Project Meeting on Primary Immunodeficiencies** organized at **Antalya, Turkey, March 2014**, and delivered a talk entitled, “Primary Immunodeficiency Diseases as an evolving area of medical research in India”.

I was selected by the International Patient Organization for Primary Immunodeficiencies and the International Union of Immunological Societies to make a presentation (along with Sir Christopher Mallaby from the United Kingdom) before the **15th. Meeting of the Essential Drugs Committee of the World Health Organization (WHO) at Geneva, Switzerland**, in March 2007, for inclusion of Intravenous Immunoglobulin (IVIG) in the Essential Drugs List of the WHO. The WHO subsequently included IVIG in its Essential Drugs List. This has benefited patients with primary immunodeficiency disorders all over the world.

I also serve as an Honorary Medical Advisor to the Indian Patients Society for Primary Immunodeficiency (www.ipspiindia.org), Primary Immunodeficiency Patients Welfare Society (www.pidindia.net) and the Kawasaki Awareness Society, Chandigarh (www.kawasakiawarenesssociety.org).

I have the privilege of being Founder Member of Pediatric Rheumatology Society of India, Indian Society of Primary Immune Deficiency (ISPID) and the Asia Pacific Society for Immunodeficiencies (ASPID).

Dr Ankur Kumar Jindal

Date of birth: 11 April 1988

Current position:

Assistant Professor of Pediatric Clinical Immunology and Rheumatology,
Allergy Immunology Unit,
Department of Pediatrics, Postgraduate Institute of Medical Education and Research,
Chandigarh, India

Accomplishments:

MBBS (SMS Medical College, Jaipur)
MD- Pediatrics (Maulana Azad Medical College, New Delhi)
DM (Post doctoral fellowship) in Pediatric Clinical Immunology and Rheumatology
(Postgraduate Institute of Medical Education and Research, Chandigarh)

List of publications (Corresponding author*)

2019

76. Singh A, Joshi V, **Jindal AK** et al. An updated review on Activated PI3 kinase delta syndrome (APDS). **Genes and Diseases** (Accepted for publication).
75. Aggarwal V, Banday A, **Jindal AK** et al. Recent advances in elucidating the genetics of Common Variable Immunodeficiency. **Genes and Diseases** (Accepted for publication)
74. **Jindal AK***, Gupta A, Keshavmurthy V, Bishnoi A. Sun-exposure in children- balancing the benefits and harms. **Indian dermatology online journal**. (Accepted for publication)
73. **Jindal AK**, Suri D, Sinha A et al. Fever, torticollis and rash in a young boy- is this Kawasaki disease? **Journal of clinical Rheumatology** (Accepted for publication).
72. Aggarwal A, **Jindal AK**, Gummadi A et al. Self-inflicted laser-induced maculopathy masquerading as posterior uveitis in a patient with suspected IgG4-related disease. **Retinal Cases & Brief Reports**. (Accepted for publication)
71. Rothu SK, Singhal M, **Jindal AK** et al. Assessment of endothelial dysfunction in acute and convalescent phases of Kawasaki disease using automated edge detection software: a preliminary study from North-India. **Journal of clinical Rheumatology** (Accepted for publication).
70. Sharma A, Das J, Jindal AK et al. Leukocyte Adhesion Defect: Where do we stand in circa 2019? **Genes and Diseases**. doi.org/10.1016/j.gendis.2019.07.012
69. Banday A, Kaur A, **Jindal AK*** et al. An update on the genetics and pathogenesis of hereditary angioedema. **Genes and Diseases**. doi.org/10.1016/j.gendis.2019.07.002
68. Singh A, Joshi V, **Jindal AK*** et al. An updated review on phenocopies of primary immunodeficiency diseases. **Genes and Diseases** (Accepted for publication)
67. Pilia RK, Chaudhary H, **Jindal AK*** et al. Current Status and Prospects of Primary Immunodeficiency Diseases in Asia. **Genes and Diseases** (Accepted for publication)
66. Guleria S, Arora K, **Jindal AK*** et al. Platelets in Kawasaki disease: Is this only a numbers game or something beyond? **Genes and Diseases** (Accepted for publication)
65. **Jindal AK**, Pilia RK, Prithvi A, Guleria S, Singh S. Kawasaki disease: characteristics, diagnosis and unusual presentations. **Expert Rev Clin Immunol**. 2019 Aug 28. doi: 10.1080/1744666X.2019.1659726. [Epub ahead of print]
64. **Jindal AK***, Pilia RK, Suri D et al. A young female with early onset arthritis, uveitis, hepatic and renal granulomas: a clinical tryst with Blau syndrome over 20 years and case based review. **Rheumatol Int**. 2019 May 6. doi: 10.1007/s00296-019-04316-6. [Epub ahead of print]
63. Bhattacharya D, Patra P, Pilia R, **Jindal AK**. Tear of long head of biceps following cardiopulmonary resuscitation – a rare complication. **BMJ Case Rep**. 2019 May 23;12(5). pii: e229218. doi: 10.1136/bcr-2019-229218.
62. Pilia RK, **Jindal AK***, Sandhu G et al. A young girl with flexion deformity of 5th hand digits: A diagnostic challenge. **J Clin Rheumatol**. 2019 Aug 6. doi: 10.1097/RHU.0000000000001113. [Epub ahead of print]

61. Vichithra M, **Jindal AK***, Singh G et al. Patchy lipodystrophy in a young adult with juvenile dermatomyositis: an unusual occurrence. **J Clin Rheumatol**. 2019 Jul 26. doi: 10.1097/RHU.0000000000001105. [Epub ahead of print]
60. **Jindal AK***, Bishnoi A, Dogra S, Singh S. A unique combination of nail changes in a boy with Kawasaki disease. **J Clin Rheumatol**. 2019 Jun 18. doi: 10.1097/RHU.0000000000001079. [Epub ahead of print]
59. **Jindal AK**, Guleria S, Suri D et al. Recurrent Salmonella typhi infection and autoimmunity in a young boy with complete IL-12 receptor β 1 deficiency. **J Clin Immunol**. 2019 May;39(4):358-362
58. Pilia RK, **Jindal AK**, Singh S. Hypotension in a febrile child- beware of Kawasaki disease Shock Syndrome. **J Clin Rheumatol**. 2019 Mar 20. doi: 10.1097/RHU.0000000000001002. [Epub ahead of print]
57. Guleria S, Pilia RK, **Jindal AK**, et al Recurrent Kawasaki disease at a tertiary care centre in Chandigarh, North West India: 24 years of clinical experience. **Int J Rheum Dis**. 2019;1–5.
56. Singh A, **Jindal AK**, Pilia R et al. Severe lip involvement in KD- a clinical oddity. **J Clin Rheumatol**. 2019 May 21. doi: 10.1097/RHU.0000000000001046. [Epub ahead of print]
55. Rikhi R, Bhattad S, **Jindal AK** et al. Monoclonal gammopathy of unknown significance (MGUS) in a child with Wiskott- Aldrich syndrome: A rare occurrence. **J Clin Immunol** (2019). <https://doi.org/10.1007/s10875-018-0585-9> 2018
54. Pilia RK, **Jindal AK**, Guleria S, Gupta A, Ahluwalia J. Pseudovasculitic lesions in a boy with lupus. **J Paediatr Child Health**. 2018 Nov; 54(11):1275. doi: 10.1111/jpc.2 14231.
53. Pilia RK, **Jindal AK**, Sandesh G, Vignesh P, Suri D, Nada R, Singh S. Chylous ascites and podocytopathy as the presentation of childhood lupus—an unusual occurrence. **Lupus**. 2018 Dec 8:961203318817831. doi: 10.1177/0961203318817831. [Epub ahead of print]
52. Pilia R, **Jindal AK**, Guleria S, Singh S. An Update on treatment of Kawasaki disease. **Curr Treat Options in Rheum** (2019) 5: 36. <https://doi.org/10.1007/s40674-019-00115-z>
51. **Jindal AK**, Pilia R, Suri D, Gupta PC, Singh S. An adult with fever and facial nerve palsy- An unusual presentation of Kawasaki disease. **J Clin Rheumatol**. 2019 Mar 12. doi: 10.1097/RHU.0000000000001024. [Epub ahead of print]
50. Vijayvergiya R, **Jindal AK**, Pilia RK, Suri D, Gupta A, Sharma A, Sinha SK, Singhal M, Bahl A, Singh S. Complex interventions of abdominal aorta and its branches in children with Takayasu arteritis: Clinical experience from a tertiary care center in north-west India. **Int J Rheum Dis**. 2018 Nov 5. doi: 10.1111/1756-185X.13420. [Epub ahead of print]
49. Sharma A, **Jindal AK**, Pilia RK, Gautam P, Daroch S. Palatal Ulcer in Leukocyte Adhesion Deficiency: an Unusual Occurrence. **J Clin Immunol**. 2018 Oct;38(7):736
48. **Jindal AK**, Tiewsoh K, Pilia RK. A review of renal disease in children with HIV infection. **Infect Dis (Lond)**. 2018 Jan;50(1):1-12.
47. **Jindal AK**, Sharma A, Rawat A. Scrotal and penile ulcer in juvenile dermatomyositis: an unusual occurrence. **J Clin Rheumatol**. 2018 Mar 21. doi: 10.1097/RHU.0000000000000757. [Epub ahead of print]
46. **Jindal AK**, Guleria S, Pilia RK, et al. Inverse Gottron papules in juvenile dermatomyositis: an under recognized clinical entity. **Rheumatol Int**. 2018 May 2. doi: 10.1007/s00296-018-4038-9. [Epub ahead of print]
45. **Jindal AK**, Laishram D, Singh S. Acrodermatitis like rash in Kawasaki disease. **J Pediatr**. 2018 Apr 5. pii: S0022-3476(18)30306-8. doi: 10.1016/j.jpeds.2018.02.051. [Epub ahead of print].
44. **Jindal AK**, Indla RT, Pilia RK, Singh S. Non-exudative conjunctival injection with limbal sparing: a pathognomonic clinical sign of Kawasaki disease. **J Clin Rheumatol**. 2018 Sep 21. doi: 10.1097/RHU.0000000000000883. [Epub ahead of print]
43. **Jindal AK**, Agarwal A, Guleria S et al, Suri D et al. Still disease and macrophage activation syndrome following Chikungunya and hepatitis E co-infection. **J Clin Rheumatol**. 2018 Feb 27. doi: 10.1097/RHU.0000000000000714. [Epub ahead of print]
42. **Jindal AK***, Laishram D, Gupta A et al. Dactylitis as the presenting manifestation of congenital syphilis in an infant. **Sex Transm Dis**. 2018 May 22. doi: 10.1097/OLQ.0000000000000869. [Epub ahead of print]
41. Pilia RK, Suri D, **Jindal AK** et al. Lupus anticoagulant-hypoprothrombinemia syndrome associated with systemic lupus erythematosus in children: report of two cases and systematic review of the literature. **Rheumatol Int**. 2018 Oct;38(10):1933-1940
40. Basha A, Rawat A, **Jindal AK** et al. Autoantibody profile in children with Kawasaki disease on long-term follow-up: a prospective study from North India. **Int J Rheum Dis**. 2018 Nov;21(11):2036-2040
39. Guleria S, **Jindal AK** et al. Dengue triggered Kawasaki disease: A report of 2 cases. **J Clin Rheumatol**. 2018 Feb 7. doi: 10.1097/RHU.0000000000000704. [Epub ahead of print]
38. Agarwal A, **Jindal AK**, Guleria S et al. Fever with large vessel aneurysms: an unusual presentation of Takayasu arteritis in a child. **Eur J Rheumatol** 2018; DOI: 10.5152/eurjrheum.2018.17159.

37. Tiewsoh K, **Jindal AK** et al. Spectrum of renal disease in HIV-infected children: report of five cases. **Paediatr Int Child Health**. 2018 May 4;1-6. doi: 10.1080/20469047.2018.1463126. [Epub ahead of print]
36. Arora A, Pilia R, Agarwal A, **Jindal AK** et al. Linezolid-induced Mitochondrial Toxicity Presenting as Retinal Nerve Fiber Layer Microcysts, Optic and Peripheral Neuropathy in a Patient with Chronic Granulomatous Disease. **Retin Cases Brief Rep**. 2018 Jul 25. doi:10.1097/ICB.0000000000000777. [Epub ahead of print].
35. Reddy P, Laishram D, **Jindal AK**, Gupta K, Rawat A. An infant with respiratory distress and loose stools: a Clinicopathological Conference. **Indian Pediatr**. 2018 Aug 15;55(8):693-697.
34. Guleria S, Pilia RK, **Jindal AK***. Koplik spots: A physical finding that should never be missed in children with suspected Kawasaki disease. **J Clin Rheumatol**. 2018 Jul 24. doi: 10.1097/RHU.0000000000000855. [Epub ahead of print]
33. Rawat A, Mathew B, Vignesh P, **Jindal AK** et al. Clinical and Molecular features of X-linked Hyper IgM Syndrome- An Experience from North India. **Clin Immunol**. 2018 Jul 24. pii: S1521-6616(18)30315-2. doi: 10.1016/j.clim.2018.07.013. [Epub ahead of print]
32. Singh S, Gupta A, **Jindal AK** et al. Pulmonary presentation of Kawasaki disease – a diagnostic challenge. **Pediatr Pulmonol**. 2018 Jan;53(1):103-107.

2017

31. **Jindal AK**, Suri D. Blue nails in a child with HIV infection. **Arch Dis Child**. 2017 Aug;102(8):779
30. **Jindal AK**, Bhattad S, Suri D et al. Moyamoya syndrome in a child with HIV-1 infection. **Pediatr Infect Dis J**. 2017 Nov 15. doi: 10.1097/INF.0000000000001841. [Epub ahead of print]
29. **Jindal AK**, Ahluwalia J, Sharma A, et al. HIV infected children with hepatomegaly and ascites: Is there something more than an infection? **AIDS**. 2017 Mar 27;31(6):870-872
28. **Jindal AK**, Rawat A, Sharma A et al. Psoriasis: an unusual autoimmune manifestation in a boy with common variable immunodeficiency. **Indian Dermatol Online J**. 2017 Jul-Aug;8(4):292-294.
27. **Jindal AK**, Minz RW, Gupta A. Koebner's phenomenon in a young boy with Henoch Schonlein Purpura. **J Clin Rheumatol**. 2017 Aug;23(5):290.
26. **Jindal AK**, Pilia RK, Rawat A, Singh S. Primary Immunodeficiency Disorders in India-A Situational Review. **Front Immunol**. 2017 Jun 19;8:714. doi: 10.3389/fimmu.2017.00714. eCollection 2017.
25. **Jindal AK**, Rawat A. Cupping at the ends of ribs is not always rickets. **BMJ Case Rep**. 2017 Jul 6;2017. pii: bcr-2017-220642. doi: 10.1136/bcr-2017-220642.
24. **Jindal AK**, Singh S. Dryness at Fingertips: Is It a Premonitory Sign of Skin Peeling in Kawasaki Disease? **J Clin Rheumatol**. 2017 Aug;23(5):286
23. **Jindal AK**, Gupta A, Dogra S, Rawat A, Suri D, Ahluwalia J, Singh S. Thrombocytopenia Associated with Localized Scleroderma: Report of Four Pediatric Cases and Review of the Literature. **Pediatr Dermatol**. 2017 Jul;34(4):e174-e178.
22. **Jindal AK**, Rawat A, Suri D, Sharma M, Shandilya JK, Goel S, Sodhi KS, Singh S. Severe Aspergillus Pneumonia and Pulmonary Artery Hypertension in a Child with Autosomal Recessive Chronic Granulomatous Disease and Selective IgA Deficiency. **J Clin Immunol**. 2017 May;37(4):333-335.
21. **Jindal AK**, Gupta A, Suri D, Gupta A, Singh S. The Expanding Spectrum of Gottron Papules in Juvenile Dermatomyositis. **Indian J Pediatr**. 2017 Mar;84(3):242-243.
20. Hussain A, Rawat A, **Jindal AK**, Gupta A, Singh S. Autoantibodies in children with juvenile dermatomyositis: A single centre experience from North-West India. **Rheumatol Int**. 2017 May;37(5):807-812.
19. Gupta A, **Jindal AK**, Dey P, Gupta A. Rosai Dorfman Disease in an Infant: An Unusual Cause of Cervical Lymphadenopathy. **Indian J Pediatr**. 2017 Jun;84(6):481-482.
18. Vignesh P, Kishore J, **Jindal AK** et al. A Young Child with Eosinophilia, Rash, and Multisystem Illness: Drug Rash, Eosinophilia, and Systemic Symptoms Syndrome After Receipt of Fluoxetine. **Pediatr Dermatol**. 2017 May;34(3):e120-e125. doi: 10.1111/pde.13131.
17. Suri D, **Jindal AK**, Gupta A, et al. Cytomegalovirus Disease in HIV-infected Children—A Single-Centre Clinical Experience over 23 Years. **J Trop Pediatr**. 2018doi.org/10.1093/tropej/fmx052.
16. Sharma A, Pandiarajan V, **Jindal AK**, Gupta A. Recent advances in pediatric rheumatology: July 2015- June 2016. **Int J Rheum Dis**. 2017 Apr;20(4):504-509.
15. Vignesh P, Rawat A, **Jindal AK** et al. Chronic granulomatous disease due to neutrophil cytosolic factor (NCF2) gene mutations in three unrelated families. **J Clin Immunol**. 2017 Feb;37(2):109-112.
14. Gupta K, Rawat A, Agrawal P, **Jindal AK**, Nada R, Saikia B et al. Infectious and non-infectious complications in primary immunodeficiency disorders: an autopsy study from North India. **J ClinPathol**. 2017 Sep 28. pii: jclinpath-2017-204708. doi: 10.1136/jclinpath-2017-204708. [Epub ahead of print]

13. Singh S, **Jindal AK**, Pilania RK. Diagnosis of Kawasaki Disease. **Int J Rheum Dis**. 2017. Nov 13. doi: 10.1111/1756-185X.13224. [Epub ahead of print].
 12. Jiao F, **Jindal AK**, et al. The emergence of Kawasaki disease in India and China – a short review. **Glob Cardiol Sci and Pract** 2017;21 doi.org/10.21542/gcsp.2017.21
 11. Dec 15;54(12):1037-1039.
 10. Tiewsoh K, Sharma D, **Jindal AK** et al. Acute kidney injury in Kawasaki disease: report of 3 cases from North India and a brief review of literature. **J Clin Rheumatol**. 2017 Dec 29. doi: 10.1097/RHU.0000000000000687.
 9. Sharma D, **Jindal AK**, Rawat A, Singh S. Approach to a child with primary immunodeficiency disorder made simple. Indian dermatology online journal. **Indian Dermatol Online J**. 2017 Nov-Dec; 8(6): 391–405. doi: 10.4103/idoj.IDOJ_189_17
 8. Gupta A, **Jindal AK**, Singh S. Recent advances in pediatric rheumatology October-December 2016. **Int J Rheum Dis**. 2017 Oct 17. doi: 10.1111/1756-185X.13200. [Epub ahead of print].
- 2016**
7. **Jindal AK**, Juneja M, Mishra D. Prevalence of Autism Spectrum Disorders in Siblings of Indian Children With Autism Spectrum Disorders. **J Child Neurol**. 2016 Jun; 31(7):873-8.
 6. **Jindal AK**, [Dogra S](#), [Gupta A](#), [Suri D](#). Treatment of vitiligo with anti retroviral therapy in a child with HIV infection. **AIDS**. 2016 May 15;30(8):1309-10.
 5. **Jindal AK**, [Gupta A](#), [Rawat A](#), Ahuja C, [Suri D](#), [Singh S](#). Brain Abscess in a Child with Leukocyte Adhesion Defect: An Unusual Association. **J Clin Immunol**. 2016 Oct;36(7):624-6.
 4. **Jindal AK**, [Singh S](#). BCG Site Reactivation in Kawasaki Disease. **Arthritis Rheumatol**. 2016 Aug;68(8):2026.
 3. **Jindal AK**, Gupta A. Recent advances in pediatric rheumatology: July-September 2016. **Int J Rheum Dis**. 2016 Nov 25. doi: 10.1111/1756-185X.13018. [Epub ahead of print]
 2. **Jindal AK**, Singh S. Kawasaki disease – update. **Indian Journal of Practical Pediatrics**. 2016;18(4):320-27.
 1. Gupta A, **Jindal AK**, Suri D, Tiewsoh K. Melanonychia following cyclophosphamide therapy. **Kidney Int**. 2016 Dec;90(6):1387.

Book Chapters-

2018

8. **Jindal AK**, Suri D. HIV infection. In: **Indian Journal of Pediatrics Handbook of neonatology**. 1st edition. Eds. Bhat R, Kumar P, Vidyasagar D. IJP publisher, New Delhi, 2018: 900-10

2016

7. Singh S, **Jindal AK**. Rheumatological problems. In: **Bhave's Textbook of Adolescent Medicine**. 2nd Edition. Eds. Bhave SY, Menon PSN, Parthasarathy A, Greydanus DE. Peepee publishers, New Delhi, 2016.
6. **Jindal AK**, Singh S. Complement disorders. In: **Fetal & Neonatal Hematology, Oncology and Immunology**. 1st edition. Eds. Lokeshwar M. 2017: 413-27
5. **Jindal AK**, Singh S. Systemic lupus erythematosus. In: **Partha's 101 Clinical Pearls in Pediatrics**. 1st edition. Eds. Parthasarathy A, Nedunchelain K, Gupta A, Borker AS, Choudhury J, Dharmapalan D, Kumar R. Jaypee brothers publishers, New Delhi, 2017: 392-402.
4. **Jindal AK**, Singh S. Kawasaki disease. In: **Partha's 101 Clinical Pearls in Pediatrics**. 1st edition. Eds. Parthasarathy A, Nedunchelain K, Gupta A, Borker AS, Choudhury J, Dharmapalan D, Kumar R. Jaypee brothers publishers. New Delhi, 2017: 402-407.
3. **Jindal AK**, Singh S. Juvenile idiopathic arthritis. In: **Partha's 101 Clinical Pearls in Pediatrics**. 1st edition. Eds. Parthasarathy A, Nedunchelain K, Gupta A, Borker AS, Choudhury J, Dharmapalan D, Kumar R. Jaypee brothers publishers. New Delhi, 2017: 407-418.
2. **Jindal AK**, Singh S. Vasculitis. In: **Partha's 101 Clinical Pearls in Pediatrics**. 1st edition. Eds. Parthasarathy A, Nedunchelain K, Gupta A, Borker AS, Choudhury J, Dharmapalan D, Kumar R. Jaypee brothers publishers. New Delhi, 2017:418-430.

2015

1. **Kumar A**, Singh S. Immunization against Tuberculosis. In: **Immunization in clinical practise**. 2nd edition. Eds. Thacker N, Shah N.K. Jaypee brothers publishers. New Delhi, 2015:69-84.

Overseas observer-ships:

Department of Paediatric Rheumatology, Bristol Royal Hospital for Children, Bristol, UK (Feb-March 2018).
 Department of Paediatric Immunology, Molecular & Cellular studies, Great Ormond Street Hospital NHS Foundation Trust (GOSH), London, UK [March-April 2018].

Memberships-

1. Indian Academy of Paediatrics (IAP)
2. Clinical Immunology Society (CIS)
3. Pediatric Rheumatology European Society (PReS)
4. Pediatric Rheumatology society of India
5. Indian Rheumatology Association (IRA)
6. European Society for Immunodeficiencies (ESID)
7. Indian Society for Primary Immune Deficiency (ISPID)
8. British Society of Immunology (BSI)
9. Indian Immunological Society (IIS)
10. Hereditary Angioedema international (HAEi)

Awards:

1. Young investigator award at the 12th International Kawasaki Disease Symposium held in Yokohama, Japan (12th to 15th June 2018)
2. International travel grants for attending European League Against Rheumatism (EULAR) annual conference 2016 held in London, UK (given by EULAR)
3. International travel grants for attending the annual Pediatric Rheumatology European Society (PReS) 2017 meeting held in Genoa, Italy (given by PReS)
4. International travel grant (WinMD) from Jeffrey Model Foundation, USA for attending the Winter School on Primary Immunodeficiency Diseases held in Windsor, UK (2016)
5. International travel grants for attending the Winter School on Primary Immunodeficiency Disease held in Hanoi, Vietnam (2015) (given by Asia Pacific Society for Immunodeficiencies, APSID)
6. International travel grants for attending the Infection and Immunity course in Children (IIC) held in Oxford, UK (June 2017) (by European Society for Paediatric Infectious Diseases, ESPID)
7. International travel grants for attending the European Society for Immunodeficiencies (ESID) summer school held in Calambrone, Pisa, Italy (May 2018) (given by European Society for Immunodeficiencies)
8. Have been selected for international travel grant for participation in the Clinical Immunology Society (CIS) summer school in Primary Immunodeficiency Diseases to be held in Fort Lauderdale, Florida, USA in October 2018
9. International Travel Fellowships & Fellow exchange grant by Indian Rheumatology Association (IRA) for a visiting fellowship in the Department of Paediatric Rheumatology, Bristol Royal Hospital for Children, Bristol, UK and Department of Paediatric Immunology, Molecular & Cellular studies, Great Ormond Street Hospital NHS Foundation Trust (GOSH), London, UK
10. International travel grants for attending 12th International Congress on SLE and the 7th Asian Congress on Autoimmunity, March 2017 in Melbourne, Australia [given by Indian Council of Medical Research, ICMR]
11. International travel grants for attending the Korean College of Rheumatology annual meeting in Seoul, South Korea, May 2019 [given by the Korean College of Rheumatology]

Research projects:**As Principal investigator:**

1. Screening for Toll like receptor pathway defects in children with disseminated Staphylococcus infections
2. Assessment of nail fold capillary abnormalities in patients with Kawasaki disease

As Co-principal investigator:

1. Assessment of CD40 expression and CD40 gene polymorphism in patients with Kawasaki disease
2. Genetics of children with common variable immunodeficiency in India
3. Evaluation of D dimer levels in children with Kawasaki Disease and their association with IVIg resistance and development of coronary artery complications

