

# ***Kawasaki disease: From Bench to Bedside***

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## 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. It usually affects infants and young children. KD is now being increasingly reported in several developing countries (including India) and has become the most common pediatric vasculitis overall, surpassing Henoch Schonlein purpura (IgA vasculitis). As the incidence of rheumatic fever in India has shown a decreasing trend over the last 3 decades, KD is likely to become the most common cause of acquired heart disease in children.

The estimated incidence of KD in Chandigarh is 5 per 100,000 children below 5 and the incidence has shown an increasing trend over the last 25 years. However, there are no data on nationwide incidence rates of KD for our country.

Coronary artery abnormalities (CAAs) are the hallmark complications in KD and these may develop in 15-25% of patients who are unable to access treatment during the acute stage. The risk of developing CAAs is as high as 60% in infants. Patients who develop coronary artery complications are at risk of cardiovascular events (such as acute coronary events) in early adulthood. 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. KD is also associated with a significant element of myocarditis. This may, at times, remain completely unrecognized, and consequently unrecognized KD myocarditis may present later in life as cardiomyopathy.

The Postgraduate Institute of Medical Education and Research, Chandigarh, India is a tertiary care referral centre in North-West India. Our institute is the only centre in the country offering a 3-year postdoctoral training course (DM) in Pediatric Clinical Immunology and Rheumatology. We follow one of the largest cohorts of patients with KD in India. Dr Tomisaku Kawasaki, the legendary Japanese pediatrician after whom this disease is eponymously named, himself visited our institute in October 2005.

This GIAN course is an endeavour to increase awareness about Kawasaki disease amongst physicians and pediatricians in India.

Useful links:

<http://www.indiansocietyofkawasakidisease.org/>

<https://kdfoundation.org/india/>

<https://sites.google.com/site/kawasakiawarenessociety/>

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 imaging techniques for Kawasaki disease.
3. Recent advances in the management of acute stage of Kawasaki disease including role of biologics.
4. Long term management of Kawasaki disease.
5. What is new on the research front?

<b>Modules</b>	<b><i>Kawasaki disease: From Bench to Bedside</i></b> <b>Dates: October 4-9, 2023</b>
<b>You Should attend if you are....</b>	<ul style="list-style-type: none"><li>▪ An undergraduate medical student</li><li>▪ A postgraduate medical student</li><li>▪ A postdoctoral fellow in Pediatric Rheumatology or Infectious Diseases</li><li>▪ A research scholar</li><li>▪ A practising physician (Government or private sectors)</li><li>▪ A scientific staff officer working in life sciences, biotechnology, biomedical and pharmaceutical industry</li></ul>
<b>Fees</b>	Participation fees for taking the course is rather modest: <b>INR 2,500; INR 1,000 (for students and fellows)</b> The fees include entry to the course, course materials, lunch and refreshments

## The Faculty



**Prof. Hiromichi Hamada** is professor of paediatrics at Tokyo Women's Medical University Yachiyo Medical Center, Chiba, Japan. His main area of interest is Kawasaki disease



**Prof. Surjit Singh** is the chief of Allergy Immunology Unit and Head of Department of Pediatrics, Postgraduate Institute of Medical Education and Research, Chandigarh, India. His main area of interest is Kawasaki disease



**Dr. Ankur Jindal** is Assistant Professor of Pediatric Clinical Immunology and Rheumatology, Allergy Immunology Unit, Department of Pediatrics, Postgraduate Institute of Medical Education and Research, Chandigarh, India. His research interests include Kawasaki disease, Juvenile scleroderma, Pediatric uveitis and Systemic lupus erythematosus.

## Course Coordinators

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<http://www.gian.iitkgp.ac.in/GREGN>