Summary of the 1st to 27th Nationwide Epidemiological Surveys of Kawasaki Disease in Japan

Specified Non-profit Organization Japan Kawasaki Disease Research Center Yoshio Imada (Chairman of the Board of Directors) Hiroshi Yanagawa (Editor-in-chief)

March 2024

Greeting Yoshio Imada Chairman of the Board of Directors

The first nationwide survey on Kawasaki disease in Japan started by Professor Itsuzo Shigematsu (Director of the Department of Epideniology of the Institute of Public Health) in 1970 with support of a Science and Technology Research Grant from the Ministry of Health and Welfare. Since then, it has been conducted once every two years, bringing the total number of 27 surveys over 50 years. This work has been passed on to Drs. Hiroshi Yanagawa and Yosikazu Nakamura (Both Professor of the Department of Public Health, Jichi Medical University). The surveys have clarified the epidemiological pictures of the disease, contributing greatly to the investigation of the causes and to the establishment of treatment methods as well.

Dr. Tomisaku Kawasaki repeatedly pointed, during his lifetime, that when considering the cause of a disease, the most important thing is not to contradict the epidemiological pictures. In 1992, the Japan Kawasaki Disease Research Center was established as a non-profit organization with the aim of investigating the cause of Kawasaki disease.

The center has supported the epidemiological surveys on Kawasaki disease as its main project, since the 16th Nationwide Epidemiological Survey. With the 27th survey, we have decided to conclude the current form of the nationwide survey, and have summarized the results of the survey to date. We hope that the results of the survey will be found this useful as a reference for the future research on Kawasaki disease. We would like to express our sincere gratitude to the pediatricians who took time out of their busy schedules to cooperate with the surveys.

Greeting Yosikazu Nakamura Professor Emeritus of Jichi Medical University In compiling the Results of 27 Nationwide Surveys on Kawasaki disease in Japan

The nationwide surveys on Kawasaki disease, which have been conducted for more than half a century since 1970, ended with the 27th survey in 2023. In 1967, Dr. Tomisaku Kawasaki first reported a total of 50 cases, and three years later, consistent epidemiological survey focused on the epidemiology of new diseases and on the clinical medicine, including countermeasures and treatment. We believe that this survey has presented the ideal form of research as a foundation for epidemiology and countermeasures and treatment when a new disease emerges.

We have presented the ideal form of research as a foundation for research in medical fields. In addition, this research method has greatly influenced subsequent epidemiological studies of various diseases, especially descriptive epidemiological studies of chronic diseases with unknown etiologies.

The national survey would not have been possible without the cooperation of pediatricians across the country, as well as the Kawasaki disease patients and their families. I would like to express my sincere gratitude. We would also like to thank the "Parents Association of Children with Kawasaki Disease" for supporting this study, and the Japan Kawasaki Disease Research Center, a non-profit organization, for providing financial support after the research funds from the government were no longer available.

Finally, I would like to report on the completion of the nationwide epidemiological survey to three great seniors who have already passed away, Dr. Tomisaku Kawasaki, who first reported Kawasaki disease and led the survey, Dr. Itsuzo Shigematsu, who started the nationwicde survey, and Mr. Mitsuru Asai, the first representative of the Association of Parents of Children with Kawasaki Disease. I sincerely wish for the soul to rest in peace.

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We welcome your comments on this report, such as your memories of Dr. Kawasaki, the Kawasaki disease epidemiological survey, and future prospects for the investigation of the cause of Kawasaki disease.

Please contact us below.

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Hiroshi Yanagawa

Professor Emeritus of Jichi Medical University

History of the 27 Nationwide Surveys of Kawasaki Disease to the Present

1. Motivation for conducting the Kawasaki disease nationwide survey

In February 1970, when Dr. Tomisaku Kawasaki visited the Ministry of Health and Welfare to apply for a medical research grant from the Ministry of Health and Welfare, Dr. Shunichi Kakurai, then Scientific Counselor, told him to conduct an epidemiological survey, and on the advice of the counselor, he visited Dr. Itsuzo Shigematsu, Director of the Department of Epidemiologyational, National Institute of Public Health. This led to Dr. Shigematsu undertaking the nationwide epidemiological survey of Kawasaki disease, and the Pediatric MCLS Research Group (led by Dr. Fumio Kosaki, Director of the Department of Pediatrics, Japan Red Cross (JRCS) Central Hospital*) was organized in 1970 with a medical research grant from the Ministry of Health and Welfare.

*Japan Red Cross (JRCS) Central Hospital is named JRCS Medical Center at present.

This was the beginning of a multicenter joint study and a nationwide epidemiological survey of Kawasaki disease, and Hiroshi Yanagawa was put in charge of the epidemiological investigation. In the first year of the research group, the main tasks of the research group were (1) preparation of a "Diagnostic Guidelines" for epidemiological investigations, (2) the implementation of a nationwide epidemiological survey, and (3) the clinical evaluation of fatal cases, and in January 1971, the first nationwide epidemiological survey of Kawasaki disease was conducted with close coordination and cooperation between epidemiologists and pediatricians.

2. 50-year history

Over the next 50 years, 27 national epidemiological surveys have been conducted uninterrupted. In 1977, Yanagawa was transferred from the National Institute of Public Health to Jichi Medical University, and the three surveys from the fifth survey (1979) to the seventh survey (1983) were conducted by Dr. Shigeo Shibata and Dr. Hidehiko Tamashiro of the Department of Epidemiology, National Institute of Public Health. From the 8th survey (1985) to the 15th survey (1999), Yanagawa was again in charge of the eight surveys at Jichi Medical University. In 1999, Yanagawa moved to Saitama Prefectural University, and from the 16th survey (2001), he asked his successor, Professor Yosikazu Nakamura, to conduct the survey, and he continued to conduct 12 surveys for 22 years until the 27th survey (2022).

Staff members, including Ms. Kazuko Takeuchi and Ms. Sumiko Ishikawa of the Department of Epidemiology of the National Institute of Public Health, Ms. Yoshie Terauchi, Ms. Hiroko Hasegawa, and Ms. Mayumi Yashiro of Jichi Medical University, and Ms. Michiko Kawashima of Saitama Prefectural University, cooperated as unsung heroes, so to speak, and successfully protected the data of a total of 445,688 Kawasaki disease patients. In particular, Ms. Mayumi Yashiro has been effectively responsible for 19 nationwide epidemiological surveys for 38 years since 1985, and has made unreasonable requests to her in all aspects of the survey, including survey planning, liaison and coordination with medical institutions, data processing, statistical analysis, maintenance and updating of patient databases, and report preparation.

The clinical aspects of this study were supported by the cooperation and guidance of a large number of pediatricians. Dr. Fumio Kosaki, Dr. Tomisaku Kawasaki, Dr. Sanji Kusakawa, Dr. Hirohisa Kato, and Dr. Kensuke Harada, who have served as the heads of the Kawasaki Disease Research Group of the Ministry of Health and Welfare in various ways, as well as Dr. Sumio Okawa, Dr. Tomoyoshi Sonobe, Dr. Yoshio Imada, Dr. Seijiro Aso, Dr. Keiji Tsuchiya, and other pediatricians at the JRCS Medical Center, Dr. Shigehiko Kamoshita, who supported this survey from various aspects, I would like to express my gratitude to Dr. Kamoshita, Dr. Masayoshi Yanagisawa and other doctors in the Department of Pediatrics at Jichi Medical University. In addition, it must be noted that the fact that we have been able to conduct a nationwide epidemiological surveys of Kawasaki disease for 50 years is due to the extraordinary cooperation of pediatricians nationwide. I would like to express my gratitude and heartfelt respect to the doctors who filled out the troublesome questionnaire as a complete volunteer in between their busy medical treatments

In the early stages, the expenditures required for the nationwide epidemiological surveys of Kawasaki disease included research grants from the Ministry of Health and Welfare (Ministry of Health, Labour and Welfare) and scientific research funds from the Ministry of Education, Culture, Sports, Science and Technology (MEXT). However, it became difficult to continue for a long period of time, and from 1999 to 2023, it was taken up as a research project of the Japan Kawasaki Disease Research Center and was able to continue until now. I would like to express my deepest gratitude to the Japan Kawasaki Disease Research Center.

Over the past 50 years, information processing technology, especially computers, has made remarkable progress. The 1st to 3rd nationwide survey was conducted in the early 1970s, and I can not forget that at that time, I had to punch holes in 80-digit punch cards, carry heavy boxes of cards in 2,000 cases each, go to a private computer company, pay over tens of thousands of yen an hour, and struggle with the FOTRAN program. In addition, I experienced many critical situations, such as torn punch cards, unreadable data on magnetic tapes, and inability to convert data. With regard to updating past computer files, Dr. Takeshi Kawaguchi of the Saitama Prefectural Department of Health and Environment at the time cooperated with us to overcome the crisis.

Since then, generations of computers have changed one after another, and until the first half of the 1980s, we relied on the power of large computers, but since the 9th national epidemiological survey, personal computers have advanced rapidly, and it has become possible to work on a tabletop. However, we had to go through the generational changes of computers that came one after another, and the progress and selection of application programs.

3. Appearance on the international stage

In September 1974, the first paper on Kawasaki disease was published in the international journal Pediatrics, and the existence of Kawasaki disease was recognized internationally.

[Kawasaki T, Kosaki F, Okawa S, Shigematsu I, Yanagawa H. A new infantile acute febrile

mucocutaneous lymph node syndrome (MLNS) prevailing in Japan (Pediatrics 1974; 54:271-276) (The contents of the paper was mainly epidemiology and clinical pictures)]

Later, in September 1980, the symposium on Kawasaki disease was taken up at the 16th International Congress of Pediatrics held in Barcelona, Spain. For the first time, Kawasaki disease was widely discussed at an international conference, and a large number of pediatricians gathered to make room for a standing cone, and it caused a great international reaction. All of this added up to make Kawasaki disease the world's Kawasaki disease.

4. Joint Research with China

The purpose of the Japan-China joint research is to clarify whether there are any differences in the epidemiology of Kawasaki disease between Japan and China, and second, to provide experience in the diagnosis and treatment of Kawasaki disease in Japan to Chinese pediatricians, and to contribute to the dissemination of early diagnosis and appropriate treatment methods. The person who played a central role in the realization of this joint research was Professor Zhang Tuohong of the School of Public Health at Peking University at the time.

In selecting the target areas, we listened to the opinions of the research teams of Japan and China and the Chinese government, and selected 10 regions in consideration of regional representativeness and economic development. These provinces are **Jiangsu**, **Shaanxi**, **Beijing**, **Guangdong**, **Heilongjiang** (Harbin District), Liaoning (Dalian), Shanghai, Chongqing, Sichuan and Yunnan. The subjects of the surveys were inpatients in the past five years at major hospitals in each region. In conducting the survey, we used questionnaires used in the national epidemiological survey in Japan and the "Diagnostic Guidelines".

5. Future Challenges

At this point, we believe that the goal of the nationwide survey has been almost achieved, and we have decided to conclude this survey with the 27th survey. In the future, when conducting a new form of Kawasaki disease epidemiological survey, it should not be a continuation of the nationwide survey that has been carried out so far, but should narrow down the purpose of the survey, select the survey subjects on the scale necessary to achieve the purpose, and determine the content of the survey.

[Note 1]

Epidemiology of Kawasaki Disease - A Summary of 30 Years (Editors: Hiroshi Yanagawa, Yoshikazu Nakamura, Mayumi Yashiro, Tomisaku Kawasaki, April 30, 2002, Diagnosis and Treatment)

[Tomisaku Kawasaki]

It can be said that the encounter with this patient was decisive in the author's subsequent fate. In other words, about a year later, in 1962, I encountered the second case, and I was convinced of the uniqueness of this disease, and as I experienced similar cases one after another, I was fascinated by its uniqueness, immersed myself in clinical research on this disease, and fell into its depths, and finally could not get out of the abyss. At that time, I was aware that I was not a good fit with the bureaucratic JRCS, so I was secretly trying to choose the path of spiritual freedom.

Thus, in retrospect, the six years leading up to the submission of the original article to "Allergy (A journal)" in 1967 were the period in my life when I was most focused on a single purpose, both physically and mentally. At the beginning of 1967, there was a debate at the Tokyo Regional Assembly of the Japan Society of Pediatrics as to whether or not this disease was Stevens-Johnson syndrome, and its uniqueness was temporarily denied, but after a series of case reports at the level of each regional association, Director Fumio Kosaki ordered me to apply for research funds from the Ministry of Health and Welfare, but in 1969 it failed. The following year, in 1970, when I applied again, I caught the attention of Dr. Shunichi Kakurai, Scientific Counsellor in the Minister's Secretariat at the time, and introduced me to Dr. Itsuzo Shigematsu, and with his help, a research group of the Ministry of Health and Welfare was established with a scientific research grant, and the first nationwide survey was conducted under the leadership of Dr. Shigematsu, and new facts that pediatric clinicians had never imagined were demonstrated one after another, and the reality of Kawasaki disease was highlighted for the first time. The uniqueness of this disease was solidified. This is thanks in part to joint research between clinical practice and epidemiology. Since then, the Ministry of Health and Welfare research team has had some twists and turns, but epidemiological surveys have been passed down from Dr. Shigematsu to Dr. Yanagawa, and a total of 16 nationwide surveys have been conducted by the end of 2000

I am delighted to announce the publication of "The Epidemiology of Kawasaki Disease: A Review of 30 Years." However, research on Kawasaki disease is now at a critical juncture. First, it is necessary to elucidate the cause of Kawasaki disease and establish preventive methods. To do this, it is necessary to prove an etiology that satisfies the data of epidemiological studies in Japan. The second question is whether Kawasaki disease can be said to be a risk factor for juvenile arteriosclerosis in future patients. Pursuing this issue requires decades of long-term follow-up and intergenerational continuity of the epidemiologists in charge. Fortunately, Dr. Nakamura has succeeded Dr. Yanagawa in Kawasaki disease epidemiology research in Japan, and cohort studies of about 6,500 patients have been ongoing for 10 years. There is still a long way to go, but I hope that the final data will be compiled eventually.

[Yosikazu Nakamura]

The first time I became involved with Kawasaki disease was 20 years ago, in the fall of 1982. That spring, I had just graduated from university, and I was a student at the National Institute of Public Health in Tokyo at the time, but I was conducting research with Dr. Yanagawa. In an evening, while I was killing time at the medical office (I don't know if I can say that, but there is still an unofficial position such as "Acting Medical Director's Knowledge"), Dr. Yanagawa brought me the data of infectious disease surveillance, which was published for the first time at that time, and gave me the task of comparing it with the incidence trend in the national survey of Kawasaki disease.

When I was a student, I was an unserious medical student who rarely attended lectures. Naturally, therefore, the fledgling researcher who had grown hair on this uneducated student and passed the national examination for medical doctors by fluke, thought that the frequency of the occurrence of infectious

diseases was as self-evident as the incidence of other diseases, as was the case with ordinary people today. So, while wondering, "Why is I doing this research now?", I summarized the results and reported them at the research group meeting in January of the following year. After the group meeting, I had a drink with Dr. Kawasaki for the first time with Dr. Yanagawa at a yakitori restaurant in front of the station in Ueno (Mr. Kawasaki's personality is evident in a place that is not a high-end restaurant in Ginza).

At the yakitori restaurant, I was nervous with Mr. Dai, and Mr. Kawasaki asked, "Is Mr. Nakamura single?" "Actually, I'm thinking of getting married in the fall, and my partner works at the doctor's hospital (Red Cross Medical Center)," he confessed. As a result, I was able to have Mr. and Mrs. Kawasaki come as the guest of honor at the wedding on September 23, 1983, when I asked Mr. and Mrs. Yanagawa to serve as a mediator.

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The wedding was held at the Hongo Kaikan near Yotsuya Station. I didn't choose it because I was a railroad enthusiast, it was just that my wife had found a place. However, this "place" was a big hit. In his guest of honor, Dr. Kawasaki said, "Recently, I have been invited to doctors' weddings, but they are all luxury hotels. Compared to that, there are doctors like this who don't care about money (although they didn't say "I'm going to have a ceremony in a poor place")." He wept. Needless to say, after that, every time my friends had a wedding at a luxury hotel, the people around me commented that it was a venue that Dr. Kawasaki seemed to dislike.

I wanted to write it down somewhere, and it is my personal history in Kawasaki disease research.

[Mayumi Yashiro]

Finally, the publication of "The Epidemiology of Kawasaki Disease: A Summary of 30 Years," which can be said to be the culmination of the 30 years since the beginning of the history of Kawasaki disease, has been realized, and I am deeply moved.

My first encounter with Kawasaki disease dates back 17 years. It's 1985. The following year,

there was a third nationwide epidemic, and two years later, the ninth nationwide survey was conducted. Since then, I've been through as many as eight nationwide surveys. It took a considerable amount of time to complete the process (request questionnaires, collection, input, and aggregation) until each and every one was completed. In the beginning, there were no magnetic media that could store large amounts of data, so it was nerve-wracking to manage patient database files, and combining them with past patient data files was a series of data compatibility problems, the introduction of Windows, and the year 2000 problem. Therefore, I have a deep attachment to "Kawasaki disease", and my relationship with "Kawasaki disease" is directly connected to the history of the evolution of computers in my mind. I also feel that thanks to "Kawasaki disease", I have improved my computer a little.

These valuable assets of Kawasaki disease patient data are provided by pediatricians nationwide, and are the result of the support and cooperation of pediatricians. I would like to ask for the continued cooperation and understanding of all the doctors, and I am determined to make every effort to help investigate the cause of "Kawasaki disease" as soon as possible.

I would like to express my sincere gratitude to all the teachers who have supported me a lot, and to Dr. Yanagawa for giving me the opportunity to be involved in such a valuable work, and for always giving me words of gratitude and encouragement. Thank you very much..

[Hiroshi Yanagawa]

Omitted because it partially overlaps with the main text

[Note 2]

Summary of Kawasaki Disease Epidemiology Research (Slides)

Slides summarizing the history of the Kawasaki Disease National Epidemiological Survey and related international exchanges have been prepared (see Appendix (3) History of Kawasaki Disease and Epidemiological Research)

Yosikazu Nakamura Professor Emeritus of Jichi Medical University

Summary of the Results of 27 Nationwide Surveys on Kawasaki disease in Japan

The nationwide surveys on Kawasaki disease, which began in 1970, have been conducted approximately once in every two years, and have continued until the 27th survey in 2023, clarifying the epidemiological and clinical piectures of Kawasaki disease in Japan. The summary of the results is as follows.

Table 1 shows the numbers of surveyed facilities, responding facilities, facilities with patients, and reported patients since the first survey. Targeted facilities were basically hospitals with 100 or more beds and with pediatric department, and pediatric specialty hospitals with less than 100 beds were also targeted.

Table 2 shows the yearly number of patients reported by diagnosis category. A total of 445,688 Kawasaki disease patients were reported. Based on various studies, it is estimated that the patient coverage rate was over 90%. Figure 1 shows the yearly number of reported patients by sex. The number of patients gradually increased during the 1970s, and the first national epidemic was observed in 1979, followed by the second in 1982 and the third in 1985-1986. After that, no such nationwide epidemic was observed, but the number of patients showed an increasing trend from the mid-1990s, and in the mid-2010s, the number of patients reported exceeded the previous highest number in 1982. However, in 2020, the number of patients decreased by about two-thirds from the previous year, and this trend continued in 2021 and 2022. Figure 2 shows the yearly incidence rate by sex (per 100,000 population aged 0-4 years). Due to the impact of the declining birthrate, the increase in incidence rate since the mid-1990s has exceeded the increasing trend in the number of patients.

 Table 3 shows the number of patients and incidence rates by prefecture from 2019 through

 2022. No regions were observed where prefectures with high incidence rates were concentrated.

Figure 3 shows the monthly number of reported patients by sex (2011-2012). The numbers of patients were usually high in January by the year 2019. This trend broke down in 2020, 2021 and 2022. The number of patients in August was higher than the number of patients in January (especially remarkable in 2021).

Figure 4 shows the age-specific incidence rate by sex in 2021 and 2022. As in the past, it was a unimodal distribution with a peak in the latter half of 0 years of age.

The degree of certainty of the diagnosis (complete or incomplete) also depends on the revision of the diagnostic guide, but in recent years, approximately 20% of reported patients were diagnosed with the incomplete type.

Recurrent cases were less than 5%, and sibling cases are about 2%. Approximately 1% of the patients had one (or both) of their parents with a history of Kawasaki disease. One of the most serious problem with Kawasaki disease is damage to the heart (especially coronary arteries). Previously, nationwide surveys confirmed cardiac sequelae (coronary artery disorder [dilatation, aneurysm, stenosis],

myocardial infarction, and/or valvular lesions one month after the onset); In recent years, cardiac lesions (coronary artery disorder [dilatation, aneurysm, stenosis], myocardial infarction, and/or valvular lesions) confirmed at the time of initial diagnosis, most acute phase (the worst condition within one month from the onset) and cardiac sequelqe (one month after the onset).

Figure 5 shows percentage of patients with cardiac impairment by sex and age (2021 and 2022). It was more common in males than in females, and was also common in infancy. A slightly higher tendency is also observed for older children aged 5 and older. **Figure 6** shows the annual trends in the frequency of cardiac lesions and sequelae. The rate of cardiac sequelae, which was 15-20% before the establishment of acute-phase immunoglobulin therapy, has fallen to around 2% in recent years.

In recent years, more than 90% of patients received intravenous immunoglobulin therapy (2g/kg body weight) as acute treatment (96.0% in the 27th survey). We directly investigated whether the cases were non-responsive in the 27th survey, and 24.4% were reported as resistant cases for the first intravenous immunoglobulin therapy. Treatment methods listed in the guidelines included initial immunoglobulin administration in combination with steroids, booster immunoglobulin, steroids, cyclosporine, infliximab, ulinastatin, and plasma exchange for refractory cases,

The above are the results of the basic survey items in the nationwide surveys. In recent years, various items have been clarified by changing the items in each survey. The survey items for each survey are shown in a separate section (Summary of the 50-year Nationwide Survey of Kawasaki Disease and Information Processing), and for details on the results, please refer to the reports for each survey.

For other detailed results in recent reports are available online, so please refer to them (http://www.jichi.ac.jp/dph/inprogress/kawasaki/, in Japanses).

Survey	Surveyed facilities	Responding facilities	Facilities with patients	Reported patients
1st	1,466	631	415 *146	1,100
2nd	1,452	821	*146 518 *385	2,826
3rd	1,638	620	379	2,597
4th	1,683	653	478	5,443
5th	1,688	943	643	6,257
бth	1,697 **1,199	1,199 **791	761 **474	10,799
7th	1,940	1,472	949	18,444
8th	2,315	1,433	966	15,933
9th	***2,336	1,514	1,058	20,458
10th	***2,247	1,443	949	10,473
11th	***2,679	1,789	1,087	11,297
12th	***2,652	1,826	1,086	11,221
13th	***2,639	1,730	1,063	11,458
14th	***2,626	1,777	1,059	12,531
15th	***2,663	1,825	1,071	12,966
16th	***2,619	1,741	1,077	15,314
17th	***2,413	1,642	1,052	16,952
18th	***2,308	1,618	1,058	19,138
19th	***2,183	1,543	993	20,475
20th	***2,102	1,540	972	23,337
21st	***2,033	1,445	925	23,730
22nd	***1,983	1,420	926	26,691
23rd	***1,943	1,456	950	31,675
24th	***1,881	1,444	965	31,595
25th	***1,804	1,357	924	32,528
26th	***1,745	1,345	904	28,520
27th	***1,723	1,286	821	21,930

Table 1 The numbers of surveyed facilities, responding facilities, facilities with patients, and reported patients since the first survey

The numbers of facilities that hamd-in the personal data in the second survey. *

** In the 6th survey, supplemental survey was conducted to the responding facilities.*** The numbers of facilities excluding closing hispitals and so on.

Nationwide survey		Total	Subtotal	Complete Typical	Atypical	Incomplete	Unknown
То	otal	445,688	378,070	-	-	67,331	28
	-1964	88	66	-	-	22	
[1965	61	47	-	-	14	
1st	1966	79	57	-	-	22	
150	1967	101	77	-	-	24	
ļ	1968	310	260	-	-	50	
	1969	461	379	-	-	82	
	1970	887	700	-	-	187	
2nd	1971	804	688	-	-	116	
	1972	1,135	979	-	-	156	
3rd	1973	1,524	1,320	-	-	204	
	1974(1-6)	1,073	939	-	-	134	
4.1	1974(7-12)	890	765	-	-	125	
4th	1975	2,216	1,946	-	-	270	
	1976 1977	2,337 2,798	2,023 2,463	-	-	314 335	
5th	1977	2,798	2,403	-	-	333	
	1978	5,439 6,867	6,164	-	-	703	
6th -	1979	3,932	3,549	-	-	383	
	1980	6,383	5,916	-	-	467	
7th	1982(1-6)	12,061	11,265	-		796	
	1982(7-12)	3,458	3,162			296	
8th	1983	5,961	5,416		-	545	
oth	1984	6,514	5,924			590	
	1985	7,611	6,997		-	614	
9th	1986	12,847	11,833		-	1,014	
	1987	5,256	4,714	-	-	542	
10th	1988	5,217	4,696	-	-	521	
11th -	1989	5,591	5,028	-	-	563	
	1990	5,706	5,192	-	-	514	
10/1	1991	5,677	5,112	4,889	223	565	
12th	1992	5,544	5,011	4,819	192	533	
124	1993	5,389	4,755	4,550	205	634	
13th	1994	6,069	5,369	5,111	258	700	
14th	1995	6,107	5,416	5,198	218	691	
1411	1996	6,424	5,650	5,430	220	774	
15th	1997	6,373	5,643	5,416	227	730	
1501	1998	6,593	5,763	5,513	250	830	
16th	1999	7,047	6,109	5,819	290	938	
Totti	2000	8,267	7,092	6,759	333	1,175	
17th	2001	8,113	7,041	6,800	241	1,072	
1711	2002	8,839	7,675	7,410	265	1,164	
18th	2003	9,146	8,003	7,678	325	1,143	
Totti	2004	9,992	8,540	8,262	278	1,452	
19th	2005	10,041	8,564	8,191	373	1,405	,
- ,	2006	10,434	8,807	8,458	349	1,530	
20th	2007	11,581	9,588	9,251	337	1,975	
2000	2008	11,756	9,633	9,322	311	2,094	
21st	2009	10,975	8,960	8,666	294	2,001	
	2010	12,755	10,338	10,014	324	2,409	
22nd	2011	12,774	10,181	9,952	229	2,589	
	2012	13,917	11,220	10,963	257	2,685	
23rd	2013	15,696	12,624	12,312	312	3,069	
	2014	15,979	12,860	12,560	300	3,116	
24th	2015	16,323	12,842	12,591	251	3,477	
	2016	15,272	12,248	11,984	264	3,017	
25th	2017	15,164	12,194	11,945	249	2,964	
	2018	17,364	14,032	13,716	316	3,325	
26th	2019	17,347	14,276	14,072	204	3,071	
	2020 2021	11,173 11,597	9,057 9,439	8,906 9,300	151 139	2,116 2,156	

Table 2 The yearly number of patients reported by diagnosis category

 1st-11th: "complete" and "incomplete"

 12th-27th: "complete(typical)", "complete(atypical)", and "incomplete"

		20	19				20			20	21			20	22	
Prefecture	No	o. of patie	nts	Incidence	No	. of patie	nts	Incidence	No	o. of patie	nts	Incidence	No	. of patie	nts	Incidence
Trefecture	Total	Males	Females	rate	Total	Males	Females	rate	Total	Males	Females	rate	Total	Males	Females	rate
All Japan	17,347	9,830	7,517	370.7	11,173	6,406	4,767	250.6	11,597	6,644	4,953	269.3	10,333	6,005	4,328	239.9
1: Hokkaido	654	355	299	387.0	391	232	159	230.0	362	214	148	232.1	312	175	137	200.0
2: Aomori	124	61	63	310.0	76	39	37	190.0	105	57	48	291.7	53	29	24	147.2
3: Iwate	93	50	43	232.5	40	24	16	100.0	58	36		161.1	42	22	20	116.7
4: Miyagi	256	149	107	308.4	136	71	65	163.9	140	80	60	184.2	131	76	55	172.4
5: Akita	82	48	34	303.7	54	35	19	200.0	66	37	29	275.0	55	37	18	229.2
6: Yamagata	187	100	87	519.4	96	49	47	266.7	108	59	49	327.3	70	44	26	212.1
7: Fukushima	236	131	105	357.6	135	76	59	204.5	130	64	66	220.3	134	79	55	227.1
8: Ibaraki	415	258	157	410.9	218	139	79	215.8	233	127	106	250.5	213	131	82	229.0
9: Tochigi	283	157	126	404.3	167	109	58	238.6	202	110	92	320.6	183	101	82	290.5
10: Gunma	281	151	130	425.8	178	100	78	269.7	196	114	82	321.3	153	86	67	250.8
11: Saitama	1,114	647	467	415.7	693	415	278	258.6	711	405	306	283.3	696	413	283	277.3
12: Chiba	910	528	382	402.7	615	344	271	272.1	644	369	275	302.3	599	350	249	281.2
13: Tokyo	2,010	1,174	836	382.1	1,262	739	523	239.9	1,274	745	529	260.5	1,110	656	454	227.0
14:Kanaagwa	1,246	715	531	367.6	701	397	304	206.8	810	451	359	254.7	668	388	280	210.1
15: Niigata	314	166	148	418.7	213	127	86	284.0	220	130	90	318.8	203	120	83	294.2
16: Toyama	107	72	35	305.7	76	44	32	217.1	75	53	22	227.3	46	29	17	139.4
17: Ishikawa	164	84	80	381.4	132	77	55	307.0	125	65	60	312.5	93	54	39	232.5
18: Fukui	104	58	46	358.6	60	29	31	206.9	90	48	42	333.3	59	30	29	218.5
19: Yamanashi	104	54	52	378.6	53	33	20	189.3	37	20	17	137.0	29	18	11	107.4
20: Nagano	268	141	127	362.2	162	87	75	218.9	177	119	58	260.3	137	70	67	201.5
21: Gifu	257	138	119	356.9	182	97	85	252.8	196	112	84	301.5	149	90	59	229.2
22: Shizuoka	512	288	224	393.8	300	160	140	230.8	274	164	110	230.3	210	118	92	176.5
23: Aichi	1,132	615	517	371.1	691	397	294	226.6	738	401	337	258.9	715	422	293	250.9
24: Mie	1,132	127	68	304.7	150	93	57	234.4	146	89	57	247.5	91	54	37	154.2
25: shiga	257	142	115	435.6	180	112	68	305.1	161	101	60	292.7	139	85	54	252.7
26: Kyoto	336	191	145	365.2	241	137	104	262.0	248	155	93	291.8	231	125	106	271.8
27: Osaka	1,201	688	513	367.3	794	450	344	242.8	800	468	332	258.1	812	482	330	261.9
28: Hyogo	728	413	315	350.0	483	281	202	232.2	477	272	205	247.2	498	289	209	258.0
29: Nara	214	112	102	455.3	132	63	69	280.9	117	65	52	272.1	112	67	45	260.5
30: Wakayama	161	93	68	503.1	88	43	45	275.0	110	54	56	366.7	68	39	29	226.7
31: Tottori	92	43	49	438.1	58	31	27	276.2	65	37	28	325.0	65	40	25	325.0
32: Shimane	84	53	31	323.1	68	32	36	261.5	67	40	27	279.2	47	25	22	195.8
33: Okayama	259	138	121	350.0	220	130	90	297.3	243	142	101	352.2	194	114	80	281.2
34: Hiroshima	416	249	167	381.7	316	182	134	289.9	311	164	147	307.9	284	163	121	281.2
35: Yamaguchi	177	113	64	376.6	97	42	55	206.4	122	69	53	283.7	77	39	38	179.1
36: Tokushima	124	61	63	496.0	69	39	30	276.0	74	36		321.7	71	41	30	308.7
37: Kagawa	95	55	40	263.9	71	41	30	197.2	69	37	32	209.1	49	27	22	148.5
38: Ehima	181	104	77	385.1	146	87	59	310.6	144	87	57	327.3	110	76	34	250.0
39: Kochi	96	61	35	417.4	47	25	22	204.3	51	27	24	231.8	42	23	19	190.9
40: Fukuoka	672	359	313	314.0	491	292	199	229.4	557	337	220	275.7	589	342	247	291.6
41: Saga	82	54	28	241.2	65	40	25	191.2	75	42	33	234.4	57	29	28	178.1
42: Nagasaki	154	89	65	296.2	101	61	40	194.2	113	68	45	235.4	105	59	46	218.8
43: Kumamoto	245	139	106	335.6	182	102	80	249.3	192	108	84	282.4	171	91	80	251.5
44: Oita	166	103	63	395.2	102	67	60	302.4	108	53		276.9	85	54	31	217.9
45: Miyazaki	130	68	62	295.5	95	55	40	215.9	73	40		178.0	90	43	47	219.5
46: Kagoshima	218	123	95	330.3	165	86	79	250.0	168	99		271.0	138	81	57	222.6
47: Okinawa	204	109	95	255.0	156	95	61	195.0	135	74		177.6	147	78	69	193.4
48: Outside Japan	5	3			0	0		-	0	0		-	1	1	0	-
Unknown	0	0			0	0	0	_	0	0	-	_	0	0	0	_
*D C (1	0	0	0		1 2020			1	D 1	-	2010.20	20 1.0			2022)	

Table 3 The numbers of patients and incidence rates by prefecture (per 100 thousands population of age 0-4) 2019-2022

*Prefectural incidence rates were calculated using the 2020 Basic Resident Registration Population for 2019-2020, and the 2022 for 2021-2022). **National Incidence rates were calculated using the estimated population for each year (with the exception of 2020, which was revised; for 2022, the estimated

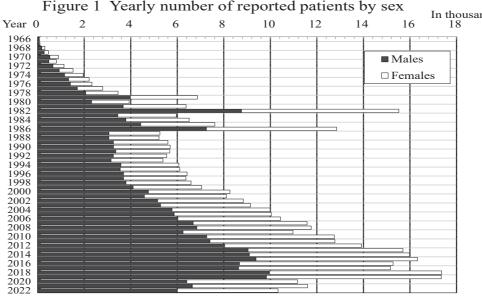
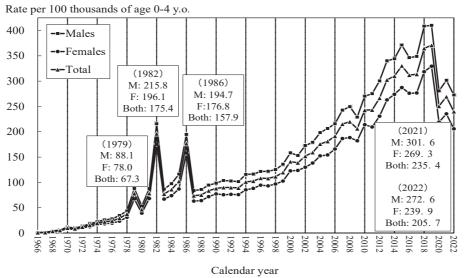


Figure 1 Yearly number of reported patients by sex In thousand 18

Figure 2 Yearly incidence rate by sex



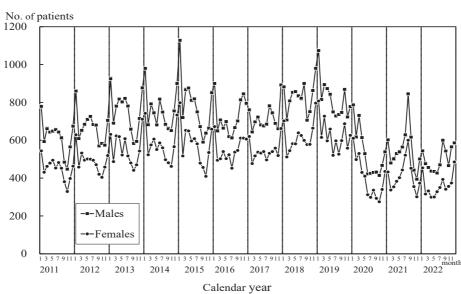
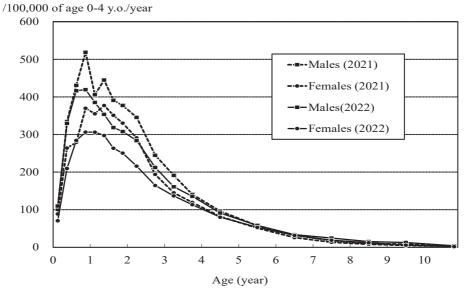
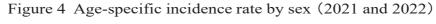
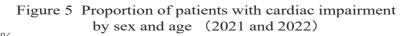
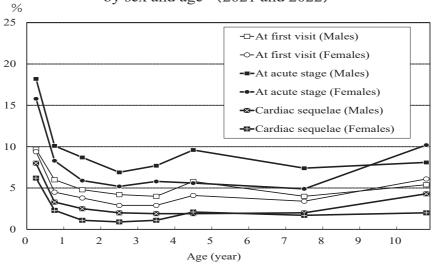


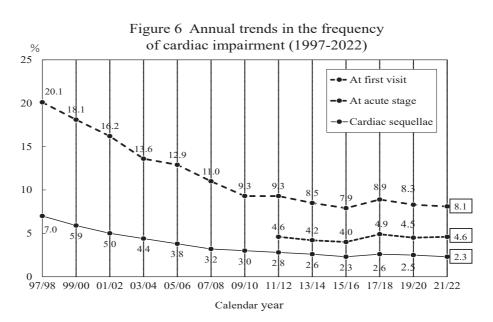
Figure 3 Monthly number of reported patients by sex (2011-2022)











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Overview of the data processing system in 50-year nationwide surveys of Kawasaki disease in Japan

I. Data processing of the reported Kawasaki disease patients

Table 1 shows the database creation and data processing for the 1st to 27th nationwide surveys of Kawasaki disease in Japan. The database creation procedure in each survey is shown step by step.

1. Database creation for the 1st to 8th nationwide surveys

By the year 2000, we created a database of all patients over the 30 years since the Kawasaki Disease Research Group was first established in 1970. Fujitsu's computer system FACOM 270-30 was used for the 1st to 3rd nationwide surveys and FACOM 230-25 for the the 4th and 5th, Hitachi's computer system HITAC 20 was used for the 6th and 7th nationwide surveys, and HITAC M-220H for the 8th.

The records for the patients reported in the 1st to 7th nationwide surveys were stored as separate data sets on punch cards or magnetic tapes. They were consolidated in September 1984 for the first time using a Hitachi's HITAC M-220H system. The records for the patients reported in the 8th nationwide survey were also included in 1985. At this stage, a summary of the patient data was created and published in a book entitled "Kawasaki Disease - All Epidemiological Data" (Edited by the Study Committee on Cause of Kawasaki Disease, Japan Heart Foundation, Published by Soft Science Publications).

2. Database creation for the 9th to 12th nationwide surveys

For the 9th and 10th nationwide surveys, patient data was entered using the Dos-Basic program and saved as text data. For the 11th and 12th nationwide surveys, an input program was created using the commercially available software dBase III PLUS, and all of the questionnaire data was inputted. This became the basis for patient database registration since then to present time. During this period, all the information for patients including items (name, date of birth, date of initial consultation, facility number) that were not included in the registration records for the 1st to 10th nationwide surveys, was entered into the survey form. The patient database for the 1st to 12th nationwide surveys was completed. All of this procedure was carried out using dBase III PLUS. At that time, computers were not as widespread as they are now, so it was difficult to handle large amounts of data, and it took a lot of effort to save and manage it.

3. Database creation for the 13th to 17th nationwide surveys

From the 13th nationwide survey onwards, data entry work was outsourced to a contractor. For

the 13th to 15th nationwide surveys, patient files were created from fixed-length text files using dBase III PLUS. For the 16th and 17th nationwide surveys, data from CSV format text files were entered by vendors. A database was created using the Microsoft Office spreadsheet software Excel (hereinafter referred to as Excel).

With the widespread of Windows, DOS files such as dBase III PLUS are difficult to handle, and it has become necessary to convert past registered data to Windows files. Data from the 1st to 15th nationwide surveys were converted from the Microsoft Office database software Access to files such as Excel. Initially, there was a problem with data size limitations (maximum 65,536 rows) and it was difficult to store large amounts of data.

4. Database creation after the 18th nationwide survey

From the 18th nationwide survey, a database was created by inputting patient data into an Excel format from the time of vendor input. From the 20th nationwide survey, we have adopted a method of additionally inputting the necessary survey items to the Excel data in which the basic patient items have already been registered, targeting facilities that cooperate with internet surveillance, so we have included the survey form (entered by the vendor). In the end, three ways of combining Excel data were added.

Thereafter, logical checks and corrections were performed on the necessary items (sex, age in days, year of first diagnosis, treatment method, test findings, etc.). At the same time, Access was used to check for duplicate consultations for the same patient (at the same facility or at other facilities). Because the secretariat was fully aware of the contents of the series of work, highly accurate survey results were obtained.

Survey No.	Year of diagnosis	Method of data processing	Application	Database integration	Confirm duplicate cases
1st- 8th	1984 or before	Data entry using 80-digit punch card Program with Fortran IV Private large computer rental (hourly)			
9th-10th	1985-1988	Dos-Basic program Text data storage	Dos-Basic		
11th-12th	1989-1992	dBase PLUS program (Basics of patient database)	Dos-Basic	1st-12th surveys integration dBaseIIIPLUS	
13th-15th	1993-1998	Fixed length text file (Input entrusted to a private company) dBase PLUS	Dos-Basic		
16th-18th	1999-2004	CSV format text file (Input entrusted to a private company) Excel, Access	F-Basic	1st-15th surveys integration Access	Access
19th-27th	2005-2022	Excel format file (Input entrusted to a private company) Excel, Access	F-Basic	1st-27th surveys integration Excel2007	Access

Table 1 Data processing methods for the 1st to the 27th natiowide surveys

Information collection method: The basic method is to mail questionnaires, but from the 18th survey, Excel data processing methods have been introduced.

5. Tabulation for analysis file for each survey

For tabulations for each survey, items used for tabulation were selected from the database file and a text file was created. This was converted to Basic data for tabulation using the Basic conversion program. We checked the logic on the program and created additional processing codes as needed. Basic simple tabulation and further cross-tabulation were performed for analysis. To create this tabulation program, Dos-Basic was used until the 15th nationwide survey. Windows F-Basic was used from the 16th nationwide survey onwards. Thankfully, this software is still working. This program is used to perform tabulation and analysis when creating each report.

Although the nationwide survey data was plagued by compatibility issues, the introduction of Windows, and the year 2000 problem, it can be said that it has survived the waves of the computer age and has been completed.

Taking the 26th nationwide survey as an example, we show an overview of the work order and information processing for about one year from survey preparation to completion of the database (**Table 2**).

Step		ormation processing of the nationwide Kawasaki disease surv	Month of
No.	Processing steps	Description of the step	implementation
1	Creating a patient list	Create a patient list to be enclosed with the survey request (for each facility where a patient was reported in the previous survey)	Oct (Previous)
	Finalizing questionnaire items and creating forms	Change of the layout of the previous survey and addition of new items	Oct (Previous)
3	Selection of survey target facilities	Pediatric departments of the hospitals with over 100 beds and pediatric specialized hospitals with less than 100 beds	Oct (Previous)
4	Announcement of survey forms and Excel input forms	Posted on the Jichi Medical University Department of Public Health website	Oct (Previous)
5	Printing a set of survey forms	Printing and preparing for shipping request letters, survey forms, diagnostic guidelines, document sending envelopes, and return envelopes	Nov (Previous)
6	Send email to surveillance participating facilities	Request for cooperation in the nationwide survey and guidance on creating an Excel file for inputting registered data	Dec (Previous)
	Sending a set of survey forms (an email will also be sent to facilities participating in the surveillance)	Send request letter, survey form, diagnostic guide, return envelope, and patient list (only to facilities with previous patients)	Jan
	Responding to inquiries from surveyed facilities	Creating manuals for responding to inquiries	Jan-May
9	Inquiry/confirmation to survey target facilities	Creating a manual to confirm inspection items (prioritize inquiries to email addresses; if there is no response, request in writing; as a last resort, request by phone)	Jan-May
10	Inspection, confirmation, and coding of survey forms	Inspection of omissions and incorrect entries in survey forms, confirmation of inquiries to facilities, entry of city/ward/town/village codes, etc.	Feb-Jul
11	Inspection, confirmation, and coding of data submitted in Excel	Inspection of data submitted on magnetic media, confirmation of inquiries to facilities, entry of city/ward/town/village codes, etc.	Feb-Jul
12	Facility data entry	Input facility data for survey form (facility code, number of patients, facility questions, etc.)	Feb-Jul
	Re-request/re-request to non- responding facilities	Conducted twice. Re-request by mail in early March (documents, questionnaire, diagnosis guide, and return envelope are enclosed) A repeat request will be made in mid-April (as a general rule, a postcard will be sent, documents, questionnaires, and diagnostic guides will be enclosed for facilities with a large number of patients in the previous survey, and requests will also be made by email to facilities participating in the surveillance)	Mar-Apr
14	Confirm survey responses to non- responding facilities	Facilities that received a large number of patient reports in the previous survey will be sent a return postcard to confirm whether they can submit submissions, the number of patients, and when they will respond	Jun
15	Patient data entry (requested to vendor)	Create an Excel format for vendor input and outsource input to the vendor	Jun-Jul
16	Unification of Excel submission data	Unify Excel data for facilities subject to surveillance and facilities that submit downloaded Excel files	Jun-Jul
17	Unification of vendor data	Unify the Excel patient data that was created in step 16 and the Excel patient data entered by the vendor	Jun-Jul
18	Logical check and correction using computer	Logical check of unified data. If you find any deficiencies in important items, please check with the facility (reconfirm)	Jun-Jul
	Duplicate check, correction and deletion of duplicated patient data	Check for duplication of unified data (confirm corrections to remaining data)	Jun-Jul
20	Add new code	Creation of new data on sibling cases, Kawasaki disease in parents (by parent), coronary artery aneurysm, and enlargement	Jul-Aug
21	Completing the database	Complete data with new code added	Aug
22	Correction of number of reported cases by facility	Confirmation of response rate and number of patients	Aug-Sep
	Data return to collaborators (Database completed)	Creating a data file for distribution (personal information removed)	Sep

Table 2 Overview of the flow and information	processing of the nationwide Kawasaki disease survey
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III. Flow of creating a Kawasaki disease nationwide survey report

The flow of creating a Kawasaki disease nationwide survey report is shown using the 26th nationwide survey as an example (**Table 3**) The Kawasaki disease nationwide survey office analyzes registered data and creates a report at the same time as every survey is completed. After completion, we upload them to our website, deliver them to partner organizations, present them at academic conferences, and publish them in the press.

Steps	Items	Description of the step	Month of implemation
1	Creating data for the report	Regional code creation, reclassification of cardiac disorders (first visit, acute phase, sequelae) Calculation of recovery rate and morbidity rate	Aug-Sep
2	Preparation for report manuscript	Creation of manuscript, tables, figures and list of collaborating facilities	Aug-Sep
3	Report printing	Submit the manuscript to the printer (PDF + original)	Sep-Oct
4	Publication and distribution of reports	Send report to cooperating facility, announce to the press and publish on Jichi Medical University Public Health website	Sep-Oct
5	Presented at academic conferences	Publish at the meeting of Japanese Kawasaki Disease Society, International Kawasaki Disease Symposium, etc.	Oct-Nov
6	Submitted to a pediatric and epidemiological journal	Journal of Pediatric treatment (in Japanese)	Nov

Table 3 Flow of creating report on nationwide epidemiological survey on Kawasaki disease

IV. Flow of survey items

The first survey consisted of (1) presence or absence of case experience (if yes, number of cases), (2) year of first case experience, and (3) diagnosis at that time. Next, we conducted a secondary investigation on several items, including the patient's name, sex, date of birth, date of first diagnosis, certainty of diagnosis (certain, suspected), and dead or alive (whether or not an autopsy was performed).

The second survey was conducted with the same content as the secondary investigation of the first survey. From the third survey onwards, we stopped using the two-stage survey method and used a continuous list method to determine the name, address, sex, date of birth, date of initial diagnosis, date of illness at initial diagnosis, certainty of diagnosis, presence or absence of referral, and death. The survey was conducted in almost the same way up to the 7th nationwide survey, with requests for information on whether there was an autopsy or not.

Items related to treatment were introduced in the 4th nationwide survey and after. Sibling occurrence and recurrence were taken up from the 5th nationwide survey. From the 8th nationwide survey, items regarding the presence of cardiac sequelae, whether echocardiography was performed, and the use of other drugs were added. The 9th to 11th nationwide surveys were conducted using the same method as the previous ones, but γ -globulin was included in the drug category. Starting with the 12th survey, items related to diagnosis, γ -globulin treatment, and recurrence were expanded in detail. In the

13th to 16th nationwide surveys, several test findings were added due to advances in diagnostic technology and treatment. Furthermore, starting with the 16th nationwide survey, from the perspective of protecting personal information, names were changed to initials only, and addresses were changed to municipal code on city, ward, town, and village. An item has been added regarding parents' history of Kawasaki disease. The 17th nationwide survey included information on the presence of major symptoms, the 18th nationwide survey included additional treatment with γ -globulin, and the 19th nationwide survey included additional treatment with γ -globulin. The 20th and 21st nationwide surveys included non-cardiac complications, additional treatments, and cases of failure. The 22nd to 24th nationwide surveys covered several test findings, and from the 22nd nationwide survey, heart disorders at the time of initial examination were also added. The 25th nationwide survey focused on antibiotics taken before the first visit. Furthermore, new survey items related to the new coronavirus infection were added in the 26th and 27th nationwide surveys, and the 27th nationwide survey also investigated the presence or absence of testing for the new coronavirus infection and the multisystem inflammatory syndrome in children (MIS-C) was investigated (**Table 4**).

Survey No.	Description of survey items
1st	Primary survey: Case experience (if yes, No. of cases, Year of first case experience and it's diagnosis) Secondary survey: Name, Sex, Date of birth, Date of first examination, Certainty of diagnosis (definite, suspect), Alive or death(Autopsy), Tertiary survey: Main symptoms, laboratory findings and treatmentas indicated in the "Kawasaki Disease Diagnostic Guideline"
2nd	Experience with cases (if yes, how many?), The year of the first experience, and its diagnosis
3rd	Name, address, sex, date of birth, date of the first hospital visit, day of illness at first visit, certainty of diagnosis, referral from other facilities, dead(autopsy) or alive,

Table 4 Changes in the items in the nationwide survey on Kawasaki disease

 \bigcirc ommon items for the past surveys(3rd-12th)

Name, address, sex, date of birth, date of the first hospital visit, day of illness at first visit, certainty of diagnosis, referral from other facilities, dead(autopsy) or alive

Survey No.	Description of survey items
4th	steroids, antibiotics
5th	Sibling case
6th	Relapse, Aspirin treatment
7th	Same as 6th survey
8th	Cardiac sequelae, echocardiography, other medications (y-globulin, flurbiprofen, vitamin E, etc.)
9th	γ-globulin
10th	Same as 9th survey
11th	Same as 10th survey
12th	Diagnosis(1. Definite A, 2. Definite B, 3. Suspicious), Cardiac sequelae (1. Giant aneurysm, 2. aneurysm/enlargement, 3. stenosis, 4. myocardial infarction, 5. valvular lesion), γ-globulin treatment (date of start, daily dose, duration, product name)

 \bigcirc Past to recent nationwide surveys (13th to 27th): Additional items

Survey No.	Description of survey items
13th	Laboratory findings (highest values) include white blood cell count and CRP
14th	Laboratory findings (minimum values): platelet count, serum albumin
15th	laboratory findings (at the initial visit); Ht, WBC count, Neutrophil count

 \bigcirc Recent nationwide surveys (16th-27th): Common Items

	gnosis, γ-globulin treatment, Recurrence, Siblings, Previous history of parents, Cardiac disorder, Dead or alive
Survey No.	Description of survey items
16th	Laboratory findings (at the time of initial examination) include Hb, ALT (GPT), serum Na, and parents' past history of Kawasaki disease.
17th	Day of illness at discharge, Presence of major 6 symptoms, Duration of fever
18th	Antipyretic days, Additional γ -globulin treatment, Patient referral
19th	Details of additional treatment (steroids), Changes in BCG vaccination site
20th	Suspected cases (number of major symptoms), Other treatments (steroids, infliximab, immunosuppressive drugs), Non- cardiac complications
21st	Conditions at birth, IGG refractory case, initial facility treated with IGG, Additional treatment: plasma exchange Complications: 1. Encephalitis/encephalopathy 2. Severe myocarditis 3. Tachyarrhythmia 4. Vomiting/diarrhea 5. Bronchitis/pneumonia 6. Gross hematuria
22nd	Add transfer information, use of concomitant steroids at initial IG treatment and whether pulse or otherwise, and White blood cell count, platelet count, albumin, CRP, and heart failure (abnormalities at first visit) were added as laboratory findings (at first visit).
23rd	Hb, ALT (GPT), and serum Na were added as laboratory findings (at initial visit).
24th	Platelet counts (initial, highest, and lowest) and the date at the highest and lowest platelet counts
25th	Presence or absence of antibiotics administered within 1 week prior to initial visit and drug name
26th	BCG vaccination history and vaccination site status, presence of 6 major symptoms, novel coronavirus PCR test, coronary Z-score or measured coronary artery diameter
27th	Details of acute phase treatment divided into 1st line, 2nd line, and 3rd line and beyond; refractory in the 1st line; deta of the status of testing for novel coronavirus infection; and the possibility of novel coronaviruses and MIS-C.

V. Progress in revisions of the "Diagnostic Guidelines"

In 1970, the first edition of the Diagnostic Guidelines of Kawasaki Disease" was produced in advance of the first nationwide survey. Subsequently, the first revised edition was published in September 1972, the second revised edition in April 1974, the third revised edition in August 1978, the fourth revised edition in September 1984, the fifth revised edition in February 2002, and the sixth revised edition in May 2019. It has been revised six times (Table 5).

Table 5 Flow of revision of "Diagnostic guidelines of Kawasaki disease"

1st revision (1972) 2nd Survey

[Addition] The fatality rate was about 1.5%, and the primary autopsy finding was vasculitis with thrombotic occlusion of the coronary arteries.

2nd revision (1974) 3rd and 4th surveys

[Change] Non-purulent lymphadenopathy was moved from a reference item to a major symptom (6 major symptoms).

[Addition] ECG findings (myocarditis-like or ischemic changes), autopsy findings (coronary artery aneurysm, mitral valve insufficiency), and later development (myocardial infarction-like symptoms, mitral regurgitation)

3rd revision (1978) 5th to 7th surveys

[Change] Expression of fever (from antibiotic refractory fever to unexplained fever)

[Addition] "Kawasaki disease" is used as the common name for the disease, and the clinical features (increased platelets, enlarged gallbladder, etc.) are also noted.)

4th revision (1984) 8th to 16th surveys

[Change] When a coronary artery aneurysm is confirmed by echocardiography or angiography, Kawasaki disease was diagnosed even with only 4 main symptoms. Fever of unexplained (unexplained \rightarrow deleted)

[Addition] Clinical symptoms (paralytic ileus, enlarged gallbladder, convulsions, and disturbance of consciousness)

5th revision (2002) 17th to 25th surveys

[Change] Expression of fever (Addition: including fever resolution of less than 5 days due to treatment), Order of description of major symptoms

[Addition] There are cases in which coronary artery aneurysms are identified even if the main symptoms are not met.

Revision is necessary due to the need to revise the diagnostic method for suspect cases (failure type), the evaluation of coronary artery lesions (Z-score determination), and the need to revise the content of the reference clause to make it more suitable for the current situation.



6th revision (2019) 26th and 27th surveys

[A. Major Symptoms] The six major symptoms are well recognized by clinicians, and the basic policy was not to make major changes, but some points were revised to meet the requirements of clinical practice.

[B. Reference] The format has been changed from the conventional listing by organ to one in which each item is categorized and listed according to its significance in terms of medical treatment.

VI. Patient file contents

1. 1st to 27th nationwide surveys common file

An analysis file consisting of basic common items was created in Excel from the database of each survey. Starting with the 14th nationwide survey, some items specific to each survey were added. There are also fields such as patient address region, facility region, patient age classification, survey period classification, survey time, etc. If you use this file, you can easily access all reported patients from the 1st to 27th nationwide surveys (approximately 440,000 patients). Tabulation and epidemiological analysis can be performed on basic items. This patient file is a valuable database that can be used to investigate the cause of Kawasaki disease and investigate the prognosis of cardiac sequelae. If necessary, the data can be returned to collaborating facilities or researchers by selecting items.

2. 11th to 27th nationwide surveys common file

Starting from the 12th nationwide survey, detailed items on γ -globulin treatment and cardiac sequelae were added, and the 11th to 27th nationwide surveys included these additional items. By performing tabulation using this data, detailed observations can be made regarding γ -globulin treatment, cardiac sequelae, etc.

3. 14th to 27th nationwide surveys file for distribution to collaborators

Since the 14th nationwide survey, all patient data excluding personal information has been created in Excel files every time. It was mainly distributed to research collaborators, and it has also been used for student practical training.

4. 1st to 27th nationwide surveys death information file (Including those not registered)

Regarding deceased patients ascertained by the Kawasaki disease nationwide surveillance office, we can see whether (1) they died at the time of the investigation, (2) they died at a later date (there is a Kawasaki disease nationwide surveillance registration), or (3) only deaths are reported (there is no Kawasaki disease nationwide surveillance registration). Death information has been registered. Currently, 542 people have been confirmed to have died at a later date (registered in the Kawasaki disease nationwide survey).

VII. Additional resources

1. Number of reported patients, number of survey facilities, and response rate

We created the number of reported patients, number of surveyed facilities, number of responding facilities, and response rate from the 1st to 27th nationwide surveys. To be close with the apread of new coronavirus infection, the number of reported patients in 2020 decreased to two-thirds of the previous year, and this trend was seen in 2021 and 2022 as well (Figure 1). Although the number of surveyed facilities has decreased in recent years due to the closure of pediatric departments, the response rate has continued to be over 70% (Figures 2 and 3).

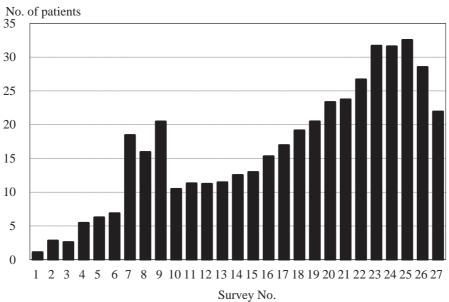
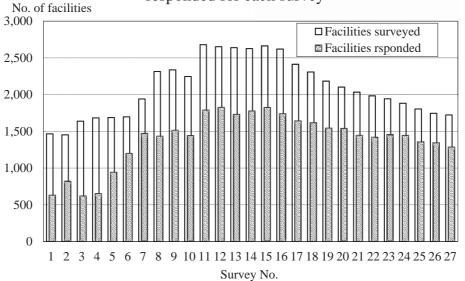
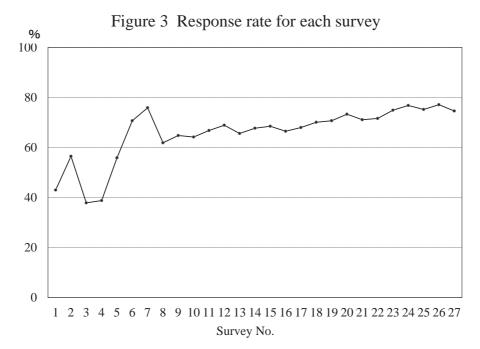


Figure 1 Number of patients reported for each survey

Figure 2 No. of facilities surveyed and responded for each survey





2. Registered patient designation date age calculation

We calculated the age as of January 1, 2023 of the 445,146 people currently registered alive who were reported in the 1st to 27th nationwide surveys (death information does not include those who fall into this category). As a result, three people over the age of 70 were confirmed to have Kawasaki disease (**Table 6**).

Age	No. of patients	Age	No. of patients
0-4	30,746	50-59	9,100
5-9	72,155	60-69	292
10-15	85,636	70	1
16-19	44,952	73	1
20-29	80,952	74	1
30-39	64,152	Age unknown*	821
40-49	56,337	Total**	445,146

Table 6 Age groups of patients registered for Kawasaki disease (As of January 1, 2023)

*Age at registration not known

**542 confirmed deaths among those registered as patients were excluded

	List of academic papers on Kawasaki o	lisease nation	wide surveys in.	Japanese
No.	Title	Name of Journal	Volume and No.	Authors
1	急性熱性皮膚粘膜リンパ節症候群と急性死.	日児誌	1971;75(6):433–434.	川崎富作.
2	急性熱性皮膚粘膜リンパ節症候群(MCLS)の疫学.	日児誌	1972;76(11):695-696.	重松逸造.
3	指趾の特異的落屑を伴う急性熱性皮膚粘膜淋巴腺症 候群(略称:MCLS).	日赤中央病院医 報	1972;1(2):73-83.	川崎富作.
4	小児MCLS(いわゆる川崎熱病)の臨床疫学的研究:その1 昭和47 年度第2回全国実態調査成績.	日公誌	1973;20(10, 特別附 録):378.	柳川洋, 志毛ただ子, 重松逸造.
5	急性熱性皮膚粘膜リンパ節症候群(MCLS).	感染·炎症·免疫	1974;4(2):55-66.	川崎富作.
6	最近のMCLSを語る(臨床座談会).	小児科	1974;15(3):204-214.	濱島義博,川崎富作,草川三治,重松逸 造,篠塚輝治,神前章雄.
7	いわゆる川崎病について.	日衛誌	1975;22(6):306-312.	重松逸造,柳川洋.
8	MCLS発生数の全国調査成績.	小児科	1975;16(8):786-790.	重松逸造,柳川洋.
9	MCLS全国調査例の臨床所見.	小児科	1975;16(8):790-795.	川崎富作,大川澄男.
10	急性熱性皮膚粘膜リンパ節症候群(MCLS)死亡例の検 討。	小児診	1975;38:608-614.38: 608-614.	大川澄男, 川崎富作, 神前章雄, 柳川洋 志毛ただ子, 重松逸造.
11	川崎病の実態.	公衆衛生情報	1975;5(12):22-29.	柳川洋.
12	最近における川崎病の実態(第3回全国調査成績より).	日衛誌	1975;22(10, 特別附 録):188.	柳川洋, 竹内和子, 重松逸造, 川崎富作 福富和夫.
13	川崎病(MCLS)における病因追求の動向.	日本臨牀	1976;34(2):284–189.	重松逸造.
14	いわゆる川崎病について.	日本医事新報	1976;No.2722:3-8.	川崎富作, 窪田誠一.
15	川崎熱発見とその後の研究動向.	日本臨牀	1976;34(2):222-227.	川崎富作.
	川崎病の疫学.	日本臨牀	1976;34(2):275-283	柳川洋.
17	小児急性熱性皮膚粘膜リンパ節症候群の診断基準・臨 床像と最近の知見。	臨牀看護	1977:3:1406-1414	川崎富作.
	MCLS (川崎病).	日本臨牀	35(Suppl 1):746-747.	川崎富作.
19	急性熱性皮膚粘膜リンパ節症候群.	医学のあゆみ	100(1):216.	川崎富作.
20	MCLS の同胞発生に関する疫学的研究.	小児科	1977;18(1):59-63.	富永真琴,大島健次郎,柳川洋,重松逸 造,川崎富作.
21	原因不明疾患の疫学:川崎病を例として.	公衆衛生	1978;42(9):545-548.	安西定, 柳川洋, 高原亮治, 川口毅.
22	いわゆる川崎病(急性熱性皮膚粘膜リンパ節症候群) の疫学的研究。	日医大誌	1978;45(5):321-337.	窪田誠一.
23	川崎病(MCLS).	内科	1978;41(6):1048-1055.	川崎富作.
24	最近(1977 ~78 年)におけるMCLS(川崎病)の実態: 第5回全国調査結果の速報。	小児科	1979;20(7):755-757.	川崎病研究班.
25	川崎病の疫学的研究について	小児科臨床	1979;32(7):1415–1420.	浅井利夫, 草川三治.
26	 川崎病(MCLS)死亡例の検討:5回にわたる全国調査 成績より.	日衛誌	1980;35(1):347.	
27	「川崎病」:特にその公衆衛生学的側面.	日衛誌	1980;27(10,特別附録): 133-136.	川崎富作.
28	川崎病発生の時間集積性について.	日衛誌	1981;28(6):257–263.	
29	 MCLS(川崎病)の多発(1979年):第6回全国調査成績 の速報。	小児科	1981;22(1):53-58.	川崎病研究班.
30	· 疫学(川崎病).	小児内科	1981;13(3):371–380.	
31	川崎病のあゆみ.	治療	1982;64(10):1609-1612.	川崎富作.
32		小児看護	1982;5(8):897–903.	川崎富作.
33	崎病疫学の新しい知見.	小児診	1982;45(9):1323-1328.	草川三治.
34		治療	1982;64(10):1613- 1619.	
35	症候学および年齢別罹患率の推移から見た川崎病病 田の考察・深連菌感染症説の可能性をめぐって	日本臨牀	1983;41:1994–2004.	山本高治郎.
36	因の考察:溶連菌感染症説の可能性をめぐって. 川崎病発症時の気象医学的検討について:第1報石	小児臨	1983;36:1289-1294.	森田正人, 浅井利夫.
	川県下発生例を中心に. 最近(1981年1月~'82年6月)におけるMCLS(川崎病) の実態:第7回全国調査結果の速報.	小児科	1983;24(1):53–58.	川崎病研究班.

No.	Title	Name of Journal	Volume and No.	Authors
38	川崎病の研究史と展望.	日本臨牀	1983;41(9):1964-1969.	川崎富作.
39	川崎病(MCLS)の本態と治療.	日本医師会雑誌	1983;89(10):1695-1702.	川崎富作.
40	川崎病.(本邦臨床統計集)	日本臨牀	1983;41(春期増刊 Suppl):1482-1497.	川崎富作.
41	川崎病の現状と展望.	こども医療セン ター医学誌	1983;12(2):71–77.	川崎富作.
42	厚生省研究班. (川崎病各研究班の指向と成果)	日本臨牀	1983;41(9):1970-1977.	草川三治.
43	川崎病研究最近の動向.(総説)	島根医学	1983;6(8):721–735.	草川三治.
44	川崎病と主要感染症の週別発生状況の解析.	日児誌	1983;87(11):2149- 2157.	中村好一, 永井正規, 柳川洋, 草川三治.
45	川崎病研究の進歩.	日本臨牀	1983;41:180-190.	柳瀬義男, 川崎富作.
46	川崎病病因への接近:疫学的立場から.	小児科	1983;24(3):271-280.	柳川洋, 柴田茂男, 重松逸造.
47	川崎病の地域集積性と時間集積性の意味するもの: 1979年, 1982年流行例を中心に。	日本臨牀	1983:41(9):1987-1993.	柳川洋, 大金央子, 永井正規.
48	川崎病(MCLS,小児急性熱性皮膚粘膜リンパ節症候 群)診断の手引き:改訂4版.	日児誌	1984;88:2693-2694.	厚生省川崎病研究班.
	川崎病同胞発生例の臨床疫学的研究.	昭和医会誌	1984;44(5):605-625.	今田義夫.
50	昭和57年北陸地方における川崎病流行状況の概要.	小児臨	1984;37:1337-1341.	森田正人, 浅井利夫, 中川秀昭, 河野俊 一, 谷口昂, 舘孔三, 中田慶子.
51	川崎病:その概説と研究史.	小児医学	1984;17(6):887–909.	川崎富作.
52	川崎病.	綜合臨牀	1984;33(5):1004-1006.	川崎富作.
53	小地域単位に観察した川崎病罹患率の疫学的特性.	日衛誌	1984;31(10):539-547.	中村好一, 大金央子, 柳川洋.
54	川崎病死亡の推移をたどる.	厚生の指標	1984;31(3):3-8.	柳川洋,橋本勉.
55	川崎病の疫学像.	小児医学	1984;17(6):910-925.	柳川洋, 大金央子, 橋本勉.
56	川崎病死亡例の臨床的検討.	小児科	1985;26:1017-1021.	加藤裕久, ーノ瀬英世, 柳川洋, 川崎富 作.
57	第8回川崎病全国調査成績.	小児科	1985;26(9):1049-1053.	厚生省川崎病研究班.
58	疫学的見地からみた川崎病の病因.	Prog Med	1985;5(1):29-34.	重松逸造.
59	川崎病(MCLS)発見の歴史と経緯.	小児内科	1985;17(5):639–642.	重松逸造.
60	川崎病(MCLS).(注目の感染症)	日本臨牀	1985;43(春期増刊 Suppl):1017-1025.	川崎富作.
61	川崎病のサーベイランス:昭和59年1年間のまとめ.	小児内科	1985;17:653-658.	柳川洋,永井正規,川崎富作.
62	川崎病再発例, 同胞例の疫学像.	日衛誌	1985;32(1):3-7.	柳川洋,永井正規,大金央子,橋本勉,中 村好一.
63	川崎病サーベイランス事業の現状.	Prog Med	1985;5:7-12.	柳川洋, 川崎富作.
64	川崎病疫学像の総括.	小児内科	1985;17(5):647-652	柳川洋.
65	同胞発生例.	Prog Med	1986;6(1):15-20.	今田義夫, 柳川洋.
66	川崎病についての話題.	保健の科学	1986;28(7):452–458.	川崎富作.
67	サーベイランスにもとづく疾病流行の予測:福岡県にお ける川崎病を例に.	日衛誌	1986;41(5):836-842.	中村好一.
68	川崎病:疫学データのすべて.	ソフトサイエンス社 (東京)		日本心臓財団川崎病原因究明委員会編 (代表:重松逸造,柳川洋,川崎富作).
69	第9回川崎病全国調査成績.	小児科	1987;28(9):1059-1066.	厚生省川崎病研究班.
70	川崎病流行時の気象医学的検討:第2報 国内での流 行を中心に.	小児臨	1987;40(3):537–543.	森田正人, 浅井利夫.
	川崎病概論.	日赤医学	1987;39(4):183–193.	川崎富作.
	川崎病の地域集積性および時間集積性に関する記述 疫学的研究.	日児誌	1987;91(4):896-910.	中村好一.
	液行時における川崎病患者および家族の健康調査(6 施設共同研究).	小児診	1987;50:1207-1210.	藤田委由, 中村好一, 柳川洋, 草川三治, 野間清司, 福田睦夫, 渡部誠一, 大国真 彦, 原田研介, 川崎富作, 麻生誠二郎, 浅 井利夫, 豊田貢一, 今田義夫.
74	川崎病サーベイランス成績-三年間のまとめ-.	日本医事新報	1987;3282:32-34.	柳川洋,屋代真弓,中村好一,麻生誠二郎,今田義夫,川崎富作,重松逸造.

No.	Title	Name of Journal	Volume and No.	Authors
75	川崎病の最近の疫学について	Prog Med	1987;7(1):7-12.	柳川洋,藤田委由,中村好一.
76	疫学からみた川崎病の病因論	小児診	1987;50(6):1144-1150.	柳川洋.
	川崎病. (疾病発生要因へのmultidisciplinary approach).	現代医学	1987;34(3):363-369.	柳川洋.
	川崎病全国調査対象施設の医療状況:断層心エコーを 中心に.	Prog Med	1988;8:7–12.	薗部友良, 今田義夫, 麻生誠二郎, 川崎富 作, 浅井利夫, 多田羅勝義, 草川三治, 原 田研介, 柳川洋, 屋代真弓, 中村好一.
79	全国調査による川崎病心後遺症の解析.	日児誌	1988;92(8):1736-1741.	藤田委由, 中村好一, 永井正規, 柳川洋, 今田義夫, 麻生誠二郎, 川崎富作.
80	川崎病はうつる病気か?その流行像と疫学像.	医学のあゆみ	1988;144(3):199–200.	母里啓子.
81	サーベイランスによる川崎病患者発生数の推定.	日児誌	1988;92(8):1754-1759.	柳川洋, 中村好一, 藤田委由, 永井正規, 麻生誠二郎, 今田義夫, 川崎富作.
82	川崎病に関する研究.	日本医師会雑誌	1989;101(1):91–97.	川崎富作.
83	第10回川崎病全国調査成績.	小児科	1990;31(5):569-576.	厚生省川崎病研究班.
84	川崎病の歴史.	小児内科	1990;22(12):1757-1761.	川崎富作.
85	川崎病の生い立ちとその展望.	Prog Med	1990;10(7):1451-1470.	川嵜富作.
86	六年間にわたる川崎病サーベイランス成績.	日本医事新報	1990;No 3472:27-30.	柳川洋, 屋代真弓, 中村好一, 川崎富作, 大川澄男.
87	10回にわたる全国調査による川崎病疫学像の特徴.	Prog Med	1990;10(1):113-117.	柳川洋,屋代真弓,中村好一,藤田委由, 永井正規,川崎富作.
88	川崎病死亡例.	Prog Med	1991;11:19-21.	大川澄男.
89	疫学研究の今後:川崎病における残された疫学的問 題の現状.	Prog Med	1991;11(1):100-101.	中村好一.
90	疫学研究のはじまり(川崎病-過去,現在,未来).	Prog Med	1991;11(1):27-29.	柳川洋.
91	第11回川崎病全国調査成績.	小児科	1992;33(3):309-316.	厚生省川崎病研究班(班長:川崎富作,担 当:柳川洋,中村好一,屋代真弓).
92	過去12回の全国調査による川崎病の年次推移.	日本医事新報	1993;No. 3623:31-34.	柳川洋, 屋代真弓, 中村好一, 広瀬憲治, 加藤裕久, 川崎富作, 重松逸造.
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230	疫学.(川崎病:原因究明・診断・治療の進歩)	小児科	61(7) 946–952.	牧野伸子, 中村好一.
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232	川崎病全国調査データベースからみえる患者動向.	小児内科	2021;53(1):10-16	牧野伸子, 中村好一.
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17	Cardiac sequelae of Kawasaki disease in Japan: statistical analysis.	Pediatrics	1991;88(6):1144-1147.	Nakamura Y, Fujita Y, Nagai M, Yanagav H, Imada Y, Okawa S, Kawasaki T, Kato
18	Mortality among children with Kawasaki disease in Japan.	N Engl J Med	1992;326(19):1246-1249.	Nakamura Y, Yanagawa H, Kawasaki T.
19	Incidence rate of recurrent Kawasaki disease in Japan.	Acta Paediatr	1994;83(10):1061-1064.	Nakamura Y, Hirose K, Yanagawa H, Kat H, Kawasaki T.
20	Kawasaki disease in Japan.	J Epidemiol	1994;4(1):13-16.	Nakamura Y, Yanagawa H, Hirose K, Kawasaki T.
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	Descriptive Epidemiology of Kawasaki disease in Japan: 2011-2012: From the Results of the 22nd nationwide Survey.	J Epidemiol	2015;25(3):239-45. doi: 10.2188/jea.JE20140089. Epub 2015 Feb 7.	Makino N, Nakamura Y, Yashiro M, Ae R, Tsuboi S, Aoyama Y, Kojo T, Uehara R, Kotani K, Yanagawa H. Maddox RA, Holman RC, Uehara R,
96	Recurrent Kawasaki Disease :USA and Japan.	Pediatr Int	2015;57(6):1116-1120	Callinan LS, Guest JL, Schonberger LB, Nakamura Y, Yashiro M, Belay ED.
97	Temporal and geographical clustering of Kawasaki disease in Japan (2007-2012).	Pediatr Int	58(11):1140-1145.	Sano T, Makino N, Aoyama Y, Ae R, Kojo T, Kotani K, Nakamura Y, Yanagawa H.
98	Difference in Risk Factors for Subtypes of Acute Cardiac Lesions Resulting from Kawasaki Disease.	Pediatr Cardiol	2017;38:375-380	Yamashita M, Ae R, Yashiro M, Aoyama Y, Sano T, Makano N, Nakamura Y.
99	Epidemiologic features of Kawasaki disease : Winter versus summer.	Pediatr Int	2017;59(7):821-825	Ozaki Y, Yamada F, Kishimoto T, Yashiro M, Nakamura Y.
	Nationwide surveys show that the incidence of recurrent Kawasaki disease in Japan has hardly changed over the last 30 years.	Acta Paediatr	106(5):796-800.	Sudo D, Nakamura Y.
101	Cumulative incidence of Kawasaki disease in Japan.	Pediatr Int	60(1):19-22.	Nakamura Y, Yashiro M, Yamashita M, Aoyama N, Otaki U, Ozeki Y, Sano T, Kojo T, Ae R, Aoyama Y, Makino N, Kotani K.
102	Epidemiologic features of Kawasaki disease distinguished by seasonal variation: an age-specific analysis.	Ann Epidemiol	28:796-800.	Ozeki Y, Yamada F, Saito A, Kishimoto T, Yashiro M, Makino N, Nakamura Y.
103	Epidemiological observation of Kawasaki disease in Japan,2013-2014.	Pediatr Int	2018;60(6):581-587	Makino N, Nakamura Y, Yashiro M, Sano T, Ae R, Kosami K, Kojo T, Aoyama Y, Kotani K. Yanagawa, H.
104	Kawasaki diseasae: Epidemiological differences between past and recent periods, and implications of distribution dynamism.	Pediatr Int	2018;60(4):349-356.	Tomita Y, Shimaya M, Yamaura Y, Tsujiguchi R, Takahashi K, Fukaya T.

No.	Title	Name of Journal	Volume and No.	Authors
	Nationwide survey of patients with giant coronary aneurysm secondary to Kawasaki disease 1999-2010 in Japan.	Circ J	2018;82(1):239-246.	Fukazawa R, Kobayashi T, Mikami M, Saji T, Hamaoka K, Kato H, Suzuki H, Tsuda E, Ayusawa M, Miura M, Ebata R, Kobayashi T, Yashiro M, Ogawa S.
107	The effects of early intravenous immunoglobulin therapy for Kawasaki disease: The 22nd nationwide survey in Japan.	Int J Cardiol	2018;269:334-338	Kuwabara M, Yashiro M, Ae R, Yanagawa H, Nakamura Y.
108	Nationwide epidemiologic survey of Kawasaki disease in Japan, 2015–2016.	Pediatr Int	2019;61(4):397-403	Makino N, Nakamura Y, Yashiro M, Kosami K, Matsubara Y, Ae R, Aoyama Y, Yanagawa H.
	Epidemiology, treatments, and cardiac complications in patients with Kawasaki disease: The nationwide survey in Japan, 2017-2018.	J Pediatr	2020;225:23-9.e2. doi:10.1016/j.jpeds.2020. 05.034.	Ae R, Makino N, Kosami K, Kuwabara M, Matsubara Y,Nakamura Y.
110	Platelet count variation and risk for coronary artery abnormalities in Kawasaki disease.	Pediatr Infect Dis J	2020;39(3):197-203.	Ae R, Abrams JY, Maddox RA, Schonberger LB, Nakamura Y, Shindo A, Kuwabara M, Makino N, Matsubara Y, Kosami K, Sasahara T, Belay ED.
111	Epidemiology and risk factors for giant coronary artery aneurysms identified after acute Kawasaki disease.	Pediatr Cardiol	2021;42(4):969-977.	Masuda H, Ae R, Koshimizu TA, Matsumura M, Kosami K, Hayashida K, Makino N, Matsubara Y, Sasahara T, Nakamura Y.
112	Global epidemiology of vasculitis.	Nat Rev Rheumatol	2022;18(1):22-34.	Watts RA, Hatemi G, Burns JC, Mohammad AJ.
113	Incidence of Kawasaki disease before and after the COVID-19 pandemic in Japan: Results of the 26th nationwide survey, 2019 to 2020.	JAMA Pediatr	2022;176(12):1217-24. doi: 10.1001/jamapediatrics.2 022.3756.	Ae R, Makino N, Kuwabara M, Matsubara Y, Kosami K, Sasahara T, Nakamura Y.

Material (2) Copies of the diagnostic guidelines

First edition (1970) First nationwide survey

小児急性熱性皮膚粘膜リンパ節症候群 (Muco-Cutaneous Lymphnode Syndrome, 階称MCLS)

診断の手びき

昭和45年度厚生省医療研究助成補助金によるMCLS研究班(班長:神前章雄)作成

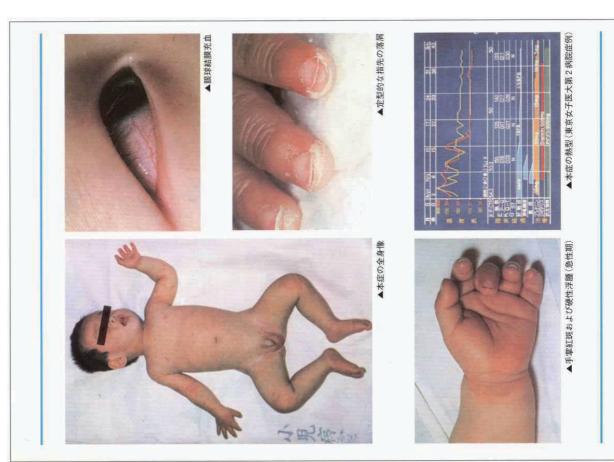
本症は主として4才以下の乳幼児に好発する原因不明の疾患で、その症候は以下の必発症状と参考条項とに分けられるが、必発症状(5症状)のうち、1を 含む4つ以上の症状を伴うものを本症として取扱う。

必発症状

- 1. 抗生物質に不応の5日以上続く発熱
- 両側眼球結膜の充血 2.
- 四肢末端の変化:①硬性浮腫(急性期)②掌蹠紅斑または末端紅斑(急 性期)③爪皮膚移行部からの膜様落屑(回復期) 3.
- 口唇、口腔所見:①口唇の乾燥、紅潮、き裂 ②舌乳頭腫大(苺舌様変 ③口腔、咽頭粘膜のびまん性発赤 (F) 4.
 - 体幹の不定形発疹(ただし、水疱、痂皮は伴わない) 2.
- 00
- 参考条項(必発症状と併せて、診断上大切である) 1. 拇指頭大以上の急性頸部リンバ節腫脹(ただし、決して化膿しない)
 - 下茶 2.
- 3. 蛋白尿、尿沈渣中の白血球増多
- 檢查所見:①核左方移動を伴なう白血球增多 ②赤沈促進 ③CRP陽 性など 4.
 - ②軽度の黄疸、血中トランスアミナ ーゼ値軽度上昇 ③心炎、 心筋炎 ④関節痛、関節炎 時にみられる症状:①無菌性髄膜炎 22
 - 4才以下に好発し、後遺症を残さず、同胞発生をみない .9

本症に合致する症例をご覧になりましたら、本研究班にご連絡下さい。 連絡先 東京都波谷区広尾 4 - 1 - 22(〒150) 日赤中央病院小児科M C L S 研究班 (T E L : 400-1311) お願い

(裏面に本症のカラー写真を掲載してあります。)



Revised first edition (1972) Second nationwide survey

小児急性熱性皮膚粘膜リンパ節症候群 (Muco-Cutaneous Lymphnode Syndrome,略称MCLS)

診断の手びき

|昭和45年度作成の手びきのうち、今回はB-6.の一部を削除、B-7.を追加した。 昭和47年度厚生省特別研究費によるMCLS研究班(班長:神前章雄)作成

本症は主として4 才以下の乳幼児に好発する原因不明の疾患で、その症候は以 下の必発症状と参考条項とに分けられるが、必発症状(5 症状)のうち、1 を 含む4つ以上の症状を伴うものを本症として取扱う。

A 必発症状

- 1. 抗生物質に不応の5日以上続く発熱
 - 2. 両側眼球結膜の充血

- 38 -

- 四肢末端の変化:①硬性浮腫(急性期)②掌蹠紙斑または末端紅斑(急 性期)③爪皮膚移行部からの膜様落屑(回復期) 3.
- 口唇、口腔所見:①口唇の乾燥、紅潮、き裂 ②舌乳頭腫大 (華舌様変 化)③口腔、咽頭粘膜のびまん性発赤 4.
 - 体幹の不定形発疹(ただし、水疱、痂皮は伴わない) 5

m

- 参考条項(必発症状と併せて、診断上大切である) 1. 拇指頭人以上の急性頸部リンバ節腫脹(ただし、決して化膿しない)
 - 下瓶 2
- 蛋白尿、尿沈渣中の白血球増多 з.
- 4. 検査所見:①核左方移動を伴う白血球増多 ②赤沈促進 ③CRP器性 えな
- (2)軽度の黄疸、血中トランスア ミナーゼ値軽度上昇 ③心炎、心筋炎 ④関節痛、関節炎 時にみられる症状:①無菌性髄膜炎 5.
 - 4才以下に好発し、同胞発生をみない 6.7
 - 本症の致命率は約1.5%で、主な剖検所見は冠動脈の血栓性閉塞を伴っ た血管炎である



裏面に本症のカラー写真を掲載してあります。)

(TEL: 03-409-2211) TEL: 03-441-7111 14線243)

▲定型的な指先の落屑 ▲眼球結膜充血 ▲本症の全身像 小見音





Revised second edition (1974) 3rd and 4th nationwide surveys

小児急性熱性皮膚粘膜リンパ節症候群 改訂2版

MCLS研究班作成(昭和45年 9 月初版、47年 9 月改訂 1 版、49年 4 月改訂 2 版)

本症は主として4才以下の乳幼児に好発する原因不明の疾患で、その症候は以下の主要症状と 参考条項とに分けられるが、6つの主要症状のうち、5つ以上の症状を伴うものを本症として 取扱う。

主要症状 <

- 抗生物質に不応の5日以上続く発熱。
- が主め気にすがい。コダエ%、シュ%。 四肢未端の変化:〔急性期〕手足の硬性浮腫、掌蹠ないしは指趾先端の紅斑。 (回復期)爪皮膚移行部からの膜様落層。 27
- 水疱、痂皮を形成しない不定形発疹(体酔に多い)。 . ന
 - 両側眼球結膜の充血(一過性のことがある)。 4
- 口唇、口腔所見:口唇の紅潮、莓舌、口腔咽頭粘膜のびまん性発赤。 ີ. ຍິ
 - 急性期における非化膿性頸部リンパ節腫脹(一過性のことがある)。

参考条項 m

- しばしばみられる症状または所見
- 心血管系:心電図の変化(PQ、QTの延長、低電位傾向、ST、Tの変化、不整脈)。 異常聴診所見(頻脈、心維音、奔馬調律、微弱心音)。
- 消化器:下痢、嘔吐、腹痛。 . N
- 尿:蛋白尿、沈渣の白血球増多。 з. С
- 血液:①核左方移動を伴う白血球増多。②軽度の貧血。③赤沈値の促進。④CRP陽性。 ⑤azグロブリンの増加。⑥ASLO値は上昇しない。 4.

時にみられる症状または所見

- 5. 呼吸器: 威戰、 專汁。
 - 関節:疼痛、腫脹。 9
- その他:①髄膜刺戟症状、髄液の単核球、蛋白などの増多。②軽度の黄疸あるいは血清 トランスアミナーゼ値の上昇。

編場

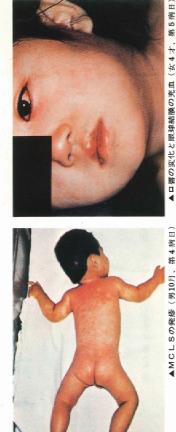
- 本症候群の性比は1.5:1で男児に多く年令分布は4才以下が80%を占め、戦命率は1~2%である。 再発は2%内外にみられる。 H N
- 心電図所見としては心筋炎様、心外膜炎様または虚血性変化を示し、いままでの割検例ではほぼ全例 5
- - 5 4 . .
- に配動腺瘤と血栓性閉塞および心筋炎を認ひる。 本確能認念心筋硬要体症状や個種作間的下金の発生をなることがある。 この診断の手どきに含軟する症の中血症を伴うもの、光年在服節リレナギに移行したもの、結節性 動脈周囲炎と病理診断されたもの、やの他凝固点はやのむ右付記されたい。

دُ **H** 40

本症に合致する症例をご覧になりましたら、本研究斑にご連絡下さい。

連絡先 東京都渋谷区広尾4-1-22(〒150) 日赤医療センター小児科MCLS研究班 [TEL:03-409-2211]

(裏面に本症のカラー写真を掲載してあります。)



▲MCLSの発疹(男10月、第4摘日)



▲足の紅斑と硬性浮腫(女1才6月、第6病日)

▲指先の落唇(男1才、第11病日)



▲MCLS罹患児の冠動脈造影像:左冠動脈瘤と右冠動 脈閉塞(男5才、発病7月後に心筋硬塞様発作)



Revised third edition (1978) 5th-7th nationwide surveys

小児急性熱性皮膚粘膜リンパ節症候群 改訂 3 版 (略称MCIS)診断の手びき

(昭和45年9月初版, 47年9月改訂1版, 49年4月改訂2版, 53年8月改訂3版。) **アンダーラインの箇所を変更または通加。 MCLS研究班作成

参考条項とに分けられるが、6つの主要症状のうち、5つ以上の症状を伴うものを本症として 本症は主として4才以下の乳幼児に好発する原因不明の疾患で、その症候は以下の主要症状と 取扱う。

主要症状 4

- 1. 原因不明の5日以上続く発熱。
- 2.四肢木端の変化:(急性期)手足の硬性浮腫、掌蹠ないしは指趾先端の紅珠。 (回復期) 爪皮膚移行部からの膜様落層。
- 3.水疱、猫皮を形成しない不定形発疹(体酔に多い)。
 - 4. 両側眼球結膜の充血(一遍性のことがある)
- ロ唇、口腔所見:口唇の紅潮、苺舌、口腔咽頭粘膜のびまん性発赤。 2. 2
 - 急性期における非化膿性頸部リンパ節腫脹(一過性のことがある)。 . 9

参考条理 m

- しばしばみられる症状または所見
- 1. 心血管系:心電図の変化(PQ、QTの延長、低電位傾向、ST、Tの変化、不整脈)。 異常聴診所見(頻脈、心雑音、奔馬調律、微弱心音)。
- 尿:蛋白尿、沈渣の白血球増多。 2. 消化器:下痢、嘔吐、腹痛。 . с
- 血液:①核左方移動を伴う白血球増多。②軽度の貧血。③赤沈値の促進。④CRP器性。 ⑤α3グロブリンの増加。⑥血小板増多。⑦ASO値は上昇しない。 4.
 - 時にみられる症状または所見
 - 5. 呼吸器:咳嗽、鼻汁。
- 関節:疼痛、腫脹。 6.
- その他:①髄膜刺軟症状、髄液の単核球、蛋白などの増多。③軽度の實直おるいは血滑 トランスアミナーゼ値の上昇。③胆嚢腫大。

補兆

- 本療候群の性比は1.5:1で男児に多く年令分布は 4 才以下が80%を占め、致命寧は1 ~ 2 % である。
- 再発は2%内外にみられる。 い電図所見としては心筋炎様、心外膜炎様または虚血性変化を示し、いままたの鎖条例ではほぼ令例 に産動脈溜を血液性閉塞および心筋炎を認める。 本症症臓酸の筋膜素核症状や健身閉環分の含くの含くとがある。 いの診断の子びきに含めてな血液を伴うもの、芯年性関節リウチに移行したもの、結節性 動脈周囲炎と病理診断されたもの、その他凝固点はそのむれ付記されたい。 0 N
 - 4 10
- 本症の通称名としては 川崎病が用いられる。
 - 英文略称は原著通り"MCLS"を用いるべき . 9
- 第9回修正WHO国際疾病分類(446.1)でも、これが 採用されている。("MLNS"という略称は、Pediatricsの編集者が原著者に無新で変更したもの。)
 - 東京都渋谷区広尾4-1-22(〒150) 日赤医療センター小児科MCLS研究班 連絡先
- (裏面に本症のカラー写真を掲載してあります。)

(TEL:03-400-1311)



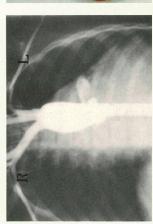
▲MCLSの発疹(男10月、第4病日)

▲□唇の変化と眼球結膜の充血(男3才、第5病日)



▲足の紅斑と硬性浮腫(女1オ6月、第6病日)

▲指先の落屑(男2才、第12病日)



▲MCLS罹患児の冠動脈造影像:左冠動脈瘤と右冠動 脈閉塞(男5才、発病7月後に心筋梗塞様発作)



Revised 4th edition (1984) 8th-16th nationwide surveys

川崎病(MCLS、小児急性熱性皮膚 粘膜リンパ節症候群)診断の手引き ^{属生省川崎病研究班作成} 数14版

(1970年9月初版,1922年9月改訂1版。1974年4月改訂2版, 1978年8月改訂3版,1984年9月改訂1本(1974年4月改訂2版, 本症は、主として4歳以下の乳幼児に好発する原因不明の疾患で、その症候は以下の主要症状 と参考条項とに分けられる。

A 主要症状

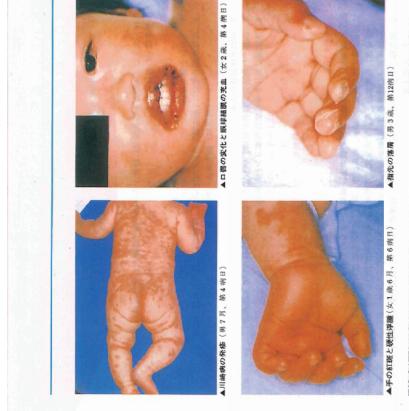
- 1.5日以上統《発熱
- 四肢末端の変化:(急性期) 手足の硬性浮脈、掌蹠ないしは指趾先端の紅斑 (回復期) 指先からの誤様落層
- 3. 不定形発疹
- 4. 両側眼球結膜の充血
- 5. 口唇、口腔所見:口唇の紅潮、いちご舌、口腔咽頭粘膜のびまん性発赤
 - 6. 急性期における非化膿性頸部リンパ筋腫脹
 - 6つの主要症状のうち5つ以上の症状を伴うものを本症とする。
- ただし、上記6主要症状のうち、4つの症状しか認められなくても、経過中に断層心エコー法もしくは、心血管造影法や、冠動脈瘤(いわゆる拡大を含む)が確認され、他の疾患が除外されれば、本症とする。

B 参考条項

以下の症候および所見は、本症の臨床上、留意すべきものである。

- 小山菅:聴診所見(小雑音、奔馬調律、微粉小音)、小電図の変化(PR・QTの延長、異 第Q彼、低電位差、STTの変化、不整照)、電部X線所見(小陰影拡大)、断層小コ 一図所見(小顕微貯酒、冠動脈瘤)、狭心症状、水精動脈瘤(腋窩など)
- 消化器:下痢、嘔吐、腹痛、胆養腫大、麻痺性イレウス、軽度の黄疸、血清トランスア ミナーや植上昇
- 3. 血液:核左方移動を伴う白血球増多、血小板増多、赤沈値の促進、CRP 陽性、低アルブ
 - ミン血症、α2グロブリンの増加、軽度の貧血
 - 4. 尿:蛋白尿、洗渣の白血球増多
- 5. 皮膚: BCG 接種部位の発赤・痂皮形成、小膿疱、爪の横溝
- 6. 呼吸器:咳嗽、鼻汁、肺野の異常陰影
- 7. 関節:疼痛、腫脹
- 8.神経:髄液の単核球増多、けいれん、意識障害、顔面神経廃痺、四肢麻痺
- 書書 1. 主要症状入の2は、回復期所見が重要視される。
 2. 本能の性比は、1.3-1.5:1で男児に多く、年齢分布は4歳以下が80~85%を占め、数命率は 0.3 ~0.5%である。
 - 3. 再発例は2~3%に、同胞例は1~2%にみられる。
- 連絡先 東京都洗谷区広尾4-1-22(〒150-8935) 日赤隠猿センター小児科気付 川崎浜研究班 (TEL:03-3400-1311)

(裏面に本症のカラー写真を掲載してあります。)





Revised 5th edition (2002) 17th-25th nationwide surveys

川崎病 (MCLS, 小児急性熱性皮膚 粘膜リンパ節症候群)診断の手引き

厚生労働省川崎病研究班作成

改訂5版

1970年9月初版、1972年9月改訂1版、1974年4月改訂2版、1978年8月改訂3版 1984年9月改訂4版、2002年2月改訂5版)

本症は、主として4歳以下の乳幼児に好発する原因不明の疾患で、その症候は以下の主要症状と参考条 頭とに分けられる。

A 主要症状

- 1.5日以上続く発熱(ただし、治療により5日未満で解熱した場合も含む)
 - 2. 両側眼球結膜の充血
- 3. 口唇、口腔所見:口唇の紅湖、いちご舌、口腔咽頭粘膜のびまん性発赤
 - 4. 不定形発疹
- 5. 四肢末端の変化: (急性期) 手足の硬性浮腫、掌蹠ないしは指趾先端の紅斑 (回復期) 指先からの膜様落屑
- 6. 急性期における非化膿性頸部リンパ筋腫脹

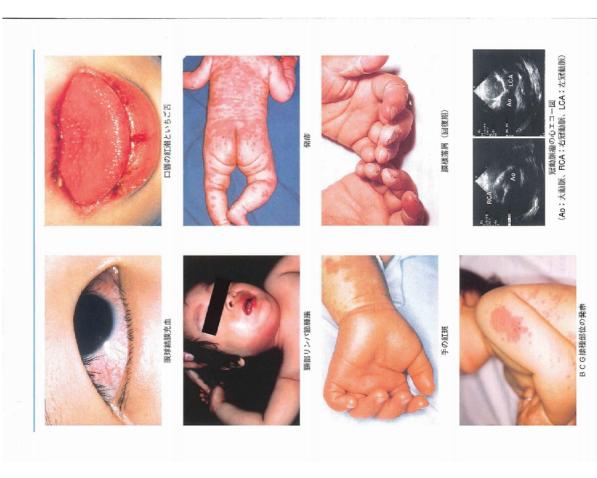
6つの主要症状のうち5つ以上の症状を伴うものを本症とする。

ただし、上記6主要症状のうち、4 つの症状しか認められなくても、経過中に断層心エコー法もしくは、 心血管造影法で、冠動脈瘤(いわゆる拡大を含む)が確認され、他の疾患が除外されれば本症とする。

B 参考条項

- 以下の症候および所見は、本症の臨床上、留意すべきものである。
- 1. 心血管:聴診所見(心雑音、奔馬調律、徴弱心音)、心電図の変化(PR・QTの延長、異常 Q波、低電位差、ST-Tの変化、不整脈)、胸部X線所見(心陰影拡大)、断層心エコー図所 見(心膜液貯溜、冠動脈瘤)、狭心症状、末梢動脈瘤(腋滴など)
 - 2. 消化器:下痢、嘔吐、腹痛、胆嚢腫大、麻痺性イレウス、軽度の黄疸、血清トランスアミナー ゼ値上昇
- 3. 血液:核左方移動を伴う自血球増多、血小板増多、赤沈値の促進、GRP陽性、低アルプミン 血症、 0/2グロブリンの増加、軽度の貧血
 - 尿:蛋白尿、沈渣の白血球増多 4.
- 5. 皮膚: BCG接種部位の発赤・痂皮形成、小膿疱、爪の横溝

 - 6. 呼吸器:咳嗽、鼻汁、肺野の異常陰影
 - 7. 関節:疼痛、腫脹
- 8. 神経: 髄液の単核球増多、けいれん、意識障害、顔面神経麻痺、回肢麻痺
- **備考** 1. 主要症状Aの5は、回復期所見が重要視される。
- 3.本症の性比は、1.3~1.5:1で男児に多く、年齢分布は4歳以下が80~85%を占め、致命率は0.1%前後で 2. 急性期における非化躁性紊怒リンパ節腫脹は他の主要症状に比べて発現頻度が低い(約65%)。
- 4. 再発例は2~3%に、同胞例は1~2%にみられる。
- 5. 主要症状を満たさなくても、他の疾患が昏定され、本症が疑われる容疑例が約10%存在する。
 - この中には冠動脈搐(いわゆる拡大を含む)が確認される例がある。
- 進絡先 〒150-8935 東京都渋谷区広尾4-1-22 日赤医療センター小児科 川崎病研究班 電話 03.3400-1311, FAX 03.3400-1394



新行所にある 経って 「「「「」」「「」」「「」」「」」「」」「」」「」」「」」」「」」」「」」「」	
急性期の致命率は、0.1%未満である。 再発例は 3~4%に、同胞例は 1~2%にみられる。 非化膿性頭部リンパ節種脹(超音抜検査で多房性を呈することが多い)の頻度は、 65%と他の主要症状に比べて低いが、 3歳以上では約 90%に見られ、初発症状になる	問念回念。" 。
	寝症状】 発熱 両側眼球結膜の充血 口軽、口腔所見:口腎の紅潮、いちご舌、口腔咀頭粘膜のびま 発き(1905 接種葉の発赤を含む)
0	本症は、主として 4 歳以下の乳幼児に好発する原因不明の疾患で、その症候は以下の主要症状と参考 ゴレドムけられる
	初版 1970年9月、改訂1版 1972年9月、改訂2版 1974年4月、改訂3版 1978年8月 改訂4版 1984年9月、改訂5版 2002年2月、改訂6版 2019年5月
 (1) そのた方移動を伴う白血球増多 (2) 血小板数低値 (5) 面小板数低値 	日本川崎病学会、特定非営利活動法人日本川崎病研究センター 厚生労働科学研究 難治性血管炎に関する調査研究班
 下記の要因は免疫グロブリン抵抗性に強く関連するとされ、不応例予測スコアを参考にすること が望ましい。 	川崎病診断の手引き 改訂第 6 版

Revised 6th edition (2019) 26th and 27th nationwide surveys

English version of the first edition (1970) and 5th edition (2002)

First edition

Table 1. First edition of the Diagnostic Guidelines

MCLS is a disease of unknown etiology affecting most frequently infants and young children under 5 years of age. The symptoms can be classified into two categories, indispensable symptoms and other significant

A. INDISPENSABLE SYMPTOMS

- 1. Fever continuing 5 days or more not responding to antibiotics
 - Congestion of bilateral ocular conjunctivas
- Changes of peripheral extremities: (1) indurative edema (initial stage), (2) erythema of palms and at the transitional part of nails/skin soles (initial stage), (3) membranous desquamation (convalescence stage)
 - Changes in lips and oral cavity: (1) dryness, redness and fissuring of lips, (2) swelling of tongue papillae (strawberry-like), (3) diffuse reddening of the oral and pharyngeal mucosa
 - Polymorphous exanthema of body trunk without vesicles or crusts
 - Item 1 and at least three items of 2-5 are indispensable for diagnosis of MCLS

B. OTHER SIGNIFICANT SYMPTOMS

- Acute nonprulent swelling of cervical lymph nodes of thumb-tip or bigger size Diarrhea
- Proteinuria and an increase in leukocytes in urine sediment
- Blood examination: (1) leukocytosis with nuclear shift to the left, (2) acceleration of blood sedimentation rate, (3) positive CRP, etc.
 - Changes occasionally observed: (1) aseptic meningitis, (2) mild jaundice or slight increase in the serum transaminase level, (3) carditis, myocarditis, (4) arthralgia, arthritis
 - Most prevalent under 5 years of age. Usually favorable prognosis without sequelae. No familial occurrence.

diagnostic guidelines of the first to 5th versions have been publicized, but the The official English translation of the 6th version not yet.

Source:

Kawasaki disease -A 30-year achievement, Yanagawa H et al. (Edit) Epidemiology of Shindan-to-chiryosha Co, Ltd, 2004.

5th edition

Table 5. The fifth revised edition of the Diagnostic Guidelines

This is a disease of unknown etiology affecting most frequently infants and young children under 5 years of age. The symptoms can be classified into two categories, principal symptoms and other significant symptoms or findings

A. PRINCIPAL SYMPTOMS

- 1. Fever persisting 5 days or more (inclusive of those cases in whom the fever has subsided before the 5th day in response to therapy)
 - Bilateral conjunctival congestion
- Changes of lips and oral cavity: Reddening of lips, strawberry tongue, diffuse injection of oral and pharyngeal mucosa
 - Polymorphous exanthema
 - Changes of peripheral extremities: 5.
- (Convalescent stage): Membranous desquamation from fingertips [Initial stage]: Reddening of palms and soles, indurative edema
 - Acute nonpurulent cervical lymphadenopathy

At least five items of 1-6 should be satisfied for diagnosis of Kawasaki disease. However, patients with four items of the principal symptoms can be diagnosed as Kawasaki disease when coronary aneurysm or dilatation is recognized by two-dimensional echocardiography or coronary angiography.

B. OTHER SIGNIFICANT SYMPTOMS OR FINDINGS

The following symptoms and findings should be considered in the clinical evaluation of suspected patients.

- 1. Cardiovascular: Auscultation (heart murmur, gallop rhythm, distant heart sounds), ECG changes ray findings (cardiomegaly), 2-D echo findings (pericardial effusion, coronary aneurysms), aneurysm (prolonged PR/ QT intervals, abnormal Q wave, low-voltage, ST-T changes, arrhythmias), chest Xof peripheral arteries other than coronary (axillary etc.), angina pectoris or myocardial infarction
 - GI tract: Diarrhea, vomiting, abdominal pain, hydrops of gall bladder, paralytic ileus, mild jaundice, slight increase of serum transaminase ci
- Blood: Leukocytosis with shift to the left, thrombocytosis, increased ESR, positive CRP, hypoalbuminemia, increased α_2 -globulin, slight decrease in erythrocyte and hemoglobin levels e.
 - Urine: Proteinuria, increase of leukocytes in urine sediment 4.
- Skin: Redness and crust at the site of BCG inoculation, small pustules, transverse furrows of the finger 5.
- Respiratory: Cough, rhinorrhea, aAbnormal shadow on chest X-ray
- Joint: Pain, Swelling 6.
- Neurological: CSF pleocytosis, Convulsion, Unconsciousness, Facial palsy, Paralysis of the extremities

REMARKS

- 1. For item 5 under principal symptoms, the convalescent stage is considered important.
- Non-purulent cervical lymphadenopathy is less frequently encountered (approximately 65%) than other principal symptoms during the acute phase. d
 - 3. Male: Female ratio: 1.3-1.5: 1, patients under 5 years of age: 80-85%, fatality rate: 0.1%
 - Recurrence rate: 2-3%, proportion of siblings cases: 1-2% 4
- Approximately 10 percent of the total cases do not fulfill five of the six principal symptoms, in which other diseases can be excluded and Kawasaki disease is suspected. In some of these patients coronary artery aneurysms (including so-called coronary artery ectasia) have been confirmed. is'

Material(3-1)

Dr. Kawasaki and Japan Kawasaki Disease Research Center Founded in 1999



Activities of Japan Kawasaki Disease Research Center

- •It was founded by the late Dr. Tomisaku Kawasaki, who discovered Kawasaki disease (KD), with the main purpose of investigation into the cause of KD.
- It provides research support by inviting universities and research institutes across Japan to conduct research on the etiology and onset mechanisms.
- •It conducts a nationwide survey once every two years to contribute to clarifying the actual situation of KD.

Continued

- •It also carries out consultation projects, education, and awareness activities on KD.
- •Furthermore, it supports the holding of study groups and academic conferences including the Japan KD Society, International Symposium on KD and also holds its own study sessions.
- •It will continue it's efforts to investigate the cause of KD.
- The center is run with the cooperation of 165 members, including 10 directors, 2 auditors, 3 advisors, and 4 staff members.

Dr. Tomisaku Kawasaki The founder of the center



Dr. Yoshio Imada The present chairman



Staff members of the center



Snap shots of late Dr. Kawasaki

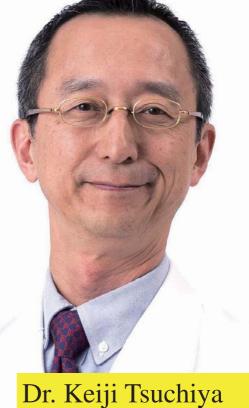




Two persons of importance in Japan KD Research Center



Both doctors serve on the board of directors of the Japan KD Research Center and they are the driving force behind the center's activities. They were both trained by Dr. Kawasaki in the JRCS Central Hospital.





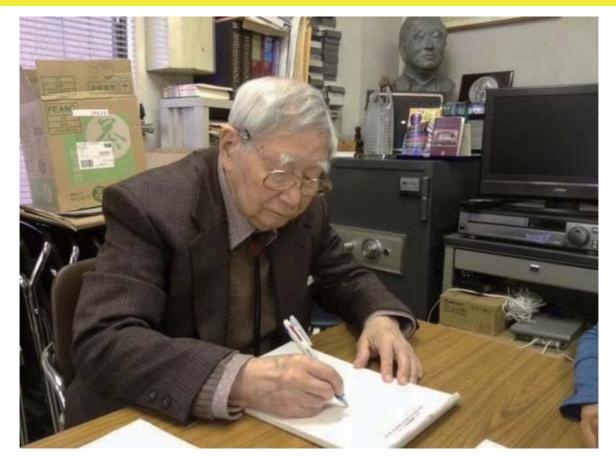
Dr. Kawasaki's daughter (Madoka-san) and son (Michiru-san)



Dr. Imada and staff members



Dr. Kawasaki responds to telephone consultations and interviews at the office





A scene from a research presentation



Dr. Kawasaki creates a poster for a research presentation in his office

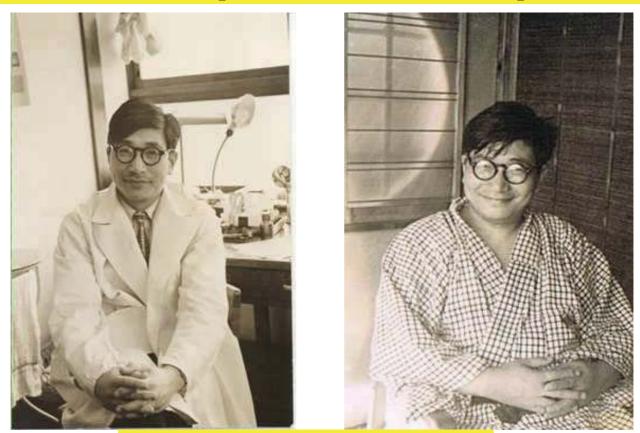
Dr. Kawasaki and his colleagues at Pediatrician's Office, Japan Red Cross Central Hospital







At the entrance of Japan Red Cross Central Hospital 1956



Young Kawasaki Sensei



Japan Pediatric Society Award Commemorative Meeting



Commemorating the Health Culture Award to the Association of Parents of KD children







Mr. & Mrs. Asai, Chairman of the Association of Parents of KD children





Drs. Zhang and Du visited the center, May 2016



With Dr. and Mrs. Shigematsu

Visit China for KD education and epidemiological surveys



Chengdu, Nov. 2002







Kunming, Apr. 2002



Chongqing, Nov. 2002



Beijing, Dec. 2004



Annual Meeting of Japanese Society of KD







19th 1999 With Dr. Hinuma











Material(3-2)

Kawasaki disease History of academic research





January 1961 (a 10-year career as a pediatrician at the JRCS Central Hospital)

- I was given the opportunity to take care of a 4y3m old boy with Kawasaki disease (KD), typical case in retrospect.
- The encounter with this case was decisive for my fate after that.
- A year later, I encountered a 2nd case, which convinced me of the uniqueness of the disease, and subsequently experienced a series of similar cases.
- Fascinated by its uniqueness, I became immersed in clinical research on KD, and I was addicted to it, and finally **I couldn't get out of its abyss**.

Continued

- 6 years up to the submission of the original article to "Allergy" in 1967 were the most concentrated periods of my life on a single purpose, both physically and mentally.
- There was a controversy about whether this disease was Stevens-Johnson syndrome or not, and the uniqueness of KD was temporarily denied, but then a series of case reports followed.
- **Dr. Fumio Kosaki** (then Director of the Department of Pediatrics) ordered me to apply for a research grant from the Ministry of Health and Welfare (MHW).
- \Rightarrow Failed (1969) and Reapplied(1970)
- I caught the attention of **Dr. Shunichi Kakurai**, then Scientific Counselor in the Minister's Secretariat of MHW.
- He advised me to consult with Dr. Itsuzo
 Shigematsu (then Director of the Department of Epidemiology(DE) of the National Institute of Public Health(NIPH)).

52 years after the fateful meeting with Dr. Kawasaki

February 1970 Dr. Kawasaki visited Dr. Shigematsu at NIPH, and talked passionately about the clinical picture of KD.

Dr. Shigematsu said "It's interesting, let's start!" (The first encounter between pediatrician and epidemiologist in KD research)

Research Group on "Infantile Muco-Cutaneous Lymph-node Syndrome (MCLS)" funded by the MHW started in 1970.

(Later MCLS was named Kawasaki Disease).

"Diagnostic guideline" was created through collaboration between pediatrician and epidemiologist.





Dr. Kawasaki and Dr. Shigematsu

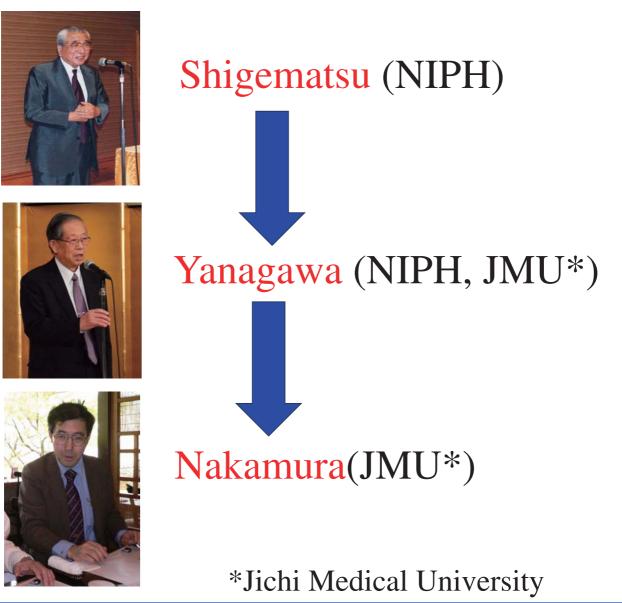
Continued

The first nationwide survey of KD was conducted January 1971.

(Yanagawa was ordered to be in charge of the survey)

27 surveys for 52 years with two-year intervals by 2022

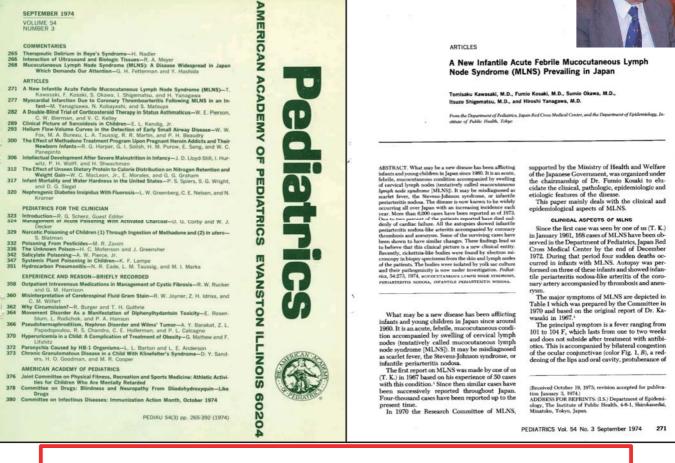
Persons responsible for the survey



Calendar on KD studies

Jan 1961	Encountered the first KD case (Dr. Kawasaki)
Oct 1962	Presentation of 7 cases (61st Annual Meeting of the Japan Pediatric Society in Chiba)
Mar 1967	Original paper published with 50 cases (Allergy 1967; 16:178-222)
Apr 1970	Research Group on KD (MHW) Representative (Dr. Kosaki)
Jan 1971	1st Nationwide Epidemiological Survey Leader (Dr. Shigematsu)
Sep 1974	First publication in an international journal (Pediatrics 1974; 54:271-276)
Sep 1980	First International Symposium on KD (16th International Congress of Pediatrics, Barcelona)

First publication in an international journal (Pediatrics 1974; 54:271-276)



ARTICLES

A New Infantile Acute Febrile Mucocutaneous Lymph Node Syndrome (MLNS) Prevailing in Japan

Tomisaku Kawasaki, M.D., Fumio Kosaki, M.D., Sumio Okawa, M.D., Itsuzo Shigematsu, M.D., and Hiroshi Yanagawa, M.D.

From the Department of Pediatrics, Japan Red Cross Medical Center, and the Department of Epidemiology, Institute of Public Health, Tokyo

The English translation was forcibly changed from A to B by the journal editors

A: Original name by authors:

Muco-Cutaneous-Lymphnode Syndrome \rightarrow MCLS

B: Editors correction:

Mucocutaneous Lymph Node Syndrome \rightarrow MLNS

First International Symposium on KD16th International Congress of PediatricsBarcelona, September 8-13, 1980



After the symposium, many participants gathered for Dr. Kawasaki's autograph



Nationwide epidemiological survey 1971-2022 (27 surveys)

Once every 2 years Total No. of patients reported 445,618 cases Fatal cases

459 (Fatality rate 0.11%) Two key persons of the surveys



Two key persons

Dr. Nakamura (Prof. Emeritus, JMU) Ms. Yashiro (Former Chief Technician, JMU)

Most important persons for the nationwide surveys of KD in Japan



Drs. Shegematsu and Kawasaki

Both leaders love conversation With happy drinking!



At a British Pub "Scatto" in Utsunomiya

A compilation of 30 years of epidemiological research on KD



KD in Asia

1. KOREA (1984)

Nationwide survey with the cooperation of 144 hospitals in Korea under the collaboration of Professor Du Bong Lee, Department of Pediatrics, Catholic University of Medical Science in Seoul. 川崎病 (MCLS)의 実態調査에 關한 付託의 말씀

무더운 어름철에 先生님과 科內 어디 先生님들 또한 變壞하시더라 믿습니다. 朝鼓診療의 硏究에 多忙하신중 昨年에도 많은 臨踪를 아 기지 않으셔서 禮分에 昨年 시울에서의 아세아 小兒科學会에서 이결 탄에 대한 우리나라 實態戰燹을 發表할 수 있었음을 마음으로 感謝 드리는 바 입니다.

지금까지(1982年6月까지) 우리나라에서 發生한 川崎鎮 惠見 数는 1982年 10月號 小兒科誌에 發表한마와 같이 約321名으로 集計지고 있습니다만 이것은 全國主要 修練的院 43 個 的医院을 읽었으도 한것 이므로 正確한 發生象兒数라고는 볼 수 없습니다. 또한 最近 이름 철에 집어들면서 本庭悤兒가 눈에 틔게 많아졌음니다.

그러오로 今校 日本心願財團 川崎肩原因究明委員会의 脇助를 얻어서 1973年以後 現在까지의 正確한 思者發生實態量 把握하고지 再次 이 調査세 채子하였읍니다.

多代하신 중 번거러운을 끼쳐서 최송하용니다만 보내드린 調査表에 現 在까지의 超驗例에 대하여 該當尊項만을 記入하시어 10月31日까지 認었하여 주시면 感測하겠읍니다.

医大 小兒 科内 前研究器

Comparison of Monthly Patient Numbers (Japan and Korea) 1982.5 83.8 人 160 140 Korea 120 100 80 1979.3 '79.12 60 40 20 يبينيا يسبلين 0 78. 79 80. 80. 81. 82 82 83 84 84 78 79. 81 83 7 7 7 7 1 7 1 1 7 7

2. CHINA (1983-2005) Epidemiological surveys at the provincial and special municipal levels



(Chinese Version)

Questionnaire form Summary of the procedures of surveys in Japan

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	儿科病定数 全年儿科门诊患者数(大模数) 人 安年儿科任院患者数(大模数) 周查期间内有无川崎病患者 1有 2无			- 		调查负	_	· · · · · · · · · · · · · · · · · · ·											
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			县(市) 锡(乡)	1男2女		л в		я	в	2	н 1	特多期和	发热53 性皮疹	E以上 変化	246	四股末梢的5 眼球结膜充住 颈部淋巴结肿	化大	1 有 2 元	1 生存 2 死亡
			县(市)	1男2女	*	.яв		ч. Л	в	<u>\$</u>	н	持续	发热57 性皮疹 口腔的	EUL L	246	四股末梢的5 眼球這展克() 頭部淋巴球	2 化 1	1 有 2 元	1 生存 2 死亡
			县(市) 镇(多)	1男2女	¥	_яо		_я_	в	#	1	特技	发热53 性皮疹 口腔的	観上	4	四敗末梢的5 眼球结膜充住 拔部淋巴结肿	1	1 有 2 元	1 生存 2 死亡
			县(市) 镇(多)	1男 2女	*	_яв		л	_8	æ	.8	**	发热53 性皮疹 口腔的		4	四敗末梢的5 吸球结膜充住 拔部淋巴结剂	1	1 変	1 生存 2 死亡
			長(市) 锅(步)	1男2女	4	_яв		я		91	12		发热63 性皮疹		246	四肢末梢的5 眼球结膜充血	ž化 L	1 有 2 元	1 生存 2 光亡
			县(市) 镇(乡)	1男2女	¥	в	#	_я_	в		8	特多層和	发热53 性皮疹 口腔的	i以上 受化	246	四股末梢的空 眼球结膜充住 颈部淋巴结	北	1 有 2 元	1 生存 2 死亡
			县(市) 锡(乡)	1男2女		О			в	g	H	持续 参照和	2 集 5 3 住 左 告 口 腔 的	EULE 変化	246	四股末梢的5 眼球球膜充住 颈部淋巴结胃	化大	1 有 2 元	1 生存 2 死亡
			县(市) 镇(乡)	1男2女		.яа	*			91	8	23 12	发热53 性皮疹 口腔的	til E	4	四股末梢的3 眼球结膜充住 游艇单已结束		1 有 2 元	1 生存

厚生省川崎病研究组 日本国第十四次川崎病全国调查结果

中文版作成 川崎富作 柳川 洋 中村好一 张拓红 屋代真弓 竹内东光

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序言

-日本从1970年开始进行两年一次的川崎病全国流行病学调查,至今为止已进行了13次。 日本从1970年开初建口四十一次的四個型土目前11四十回點:17月止上27月 充分業量(1994年)2月低新发供熟悉的含义。本达调查的对象是1995年1月至1996年12月四 年间的发病患者。以下根据本次调查的结果,从报告患者数、性别年龄别分布、家族共患病 例、再发病例、心脏后遗症病例以及治疗状况等流行病学方面的主要特征作概要报告。

方法

方法 第34次川崎病全區调查期间是自1995年1月1日至1996年12月31日的两年间, 调查对象的 医疗 单位是尿位100张以上并设有儿科的医院,以及床位不满100张的儿科医院。 调查对象的 在满足以上限疗单位条件下的医院中就诊的初诊川崎病患者, 调查对象的名单是根据厚生省 健康政策局总务科编赛的《1994年版医院一览》(医学书院出版)做出的。全国共有2,638所 符合以上条件的医疗单位。

调査结果 1、调查的回收率

发出研究协作请求函的2,638所医疗单位中,除外报告已停查的11所医疗单位,共有2,627 发出朝安协作请求他的2,685%医疗平位中,除疗理百一次,1567代百一次,256% 所医院作为本次调查的对象医疗单位。收回调查表的医疗(在1,177代,回收带为67.7%。 其中,报告有患者的医疗单位为1,059%(占回收医疗单位约、公)。表1是各个都道府具对象 医疗单位数、回答医疗单位数、有患者的医疗单位数以及报告患者数。 2、年代变化趋势

2. 中门支记信号 本次调查师年间的报告思常数为12,531人,其中1995年6,107人,1996年6,424人。从性 别来着,男性7,239人,女性5,292人。0~4岁儿童发病率2年平均为每年105.3/10万(男118.8) 女91.1)。患者数的男女性比为1.37、发病率的男女性比为1.30,男性多于女性。加上本 次调查的患者数, 共14次调查的报告患者总数为140, 837人(男81, 783人, 女59, 054人)。从患 者数的年代变化趋势来看,如表2和图1所示,男性患者和女性患者自1970年以来都有增加的

Diagnostic guidelines (Chinese version)

川崎病诊断标准(修订第四版)

日本国川崎病研究课题组

日本四川門,所所,加水理3.0 本病主要好发于4岁以下婴幼儿,是一种原因不明表恋。本病的主要特在分 5以下主要症状和表它症状。 A、主要症状 1、持续发热5天以上 2、四肢末梢变化:(急性期)手足硬性肿胀、掌跖及指趾端充血 (恢复期)指趾端甲床皮肤移行处有膜状脱皮 3、多形性红斑、皮疹 4、双眼结膜充血 5、露杠期出现非化脓性颈部淋巴结肿胀 1人的6个主要症状中只要出现5个就可以诊断为本病。另外,如果上述的6个症 状中只出现4个症状,但通过超声心动检查或心血管造影检查证实了冠状动脉瘤 (或者动脉扩大),在除外其它疾病的基础上,可确诊为本病。

(頭電动脉扩大),在除外其它狹胸的基础上,可确诊力不夠。
B、其它症状 溶尿检查时应当注意的症状和体征:

心血管:听诊体征(心脏杂音、奔马床、心音弱),心电周的变化(PK,QT)间 期延长,异常)效。QR低电压。ST-T这段变),心律不示,脑部又走片心影增大 超声心动图可见改变(心包积液、超状动脉瘤),心肌缺血症状、末梢动脉瘤(腋 窝等处).
消化系统:腹泻、呕吐、腹痛、胆囊肿大、麻痹性肠梗阻、轻度黄疸、血 清積爽酶值上升。
血液(白血尿增多、伴植左移、血小板增多,血沉加快、CRP阳性、低白蛋 白血症、α2球蛋白增加、轻度黄血。
汞皮肤:BCG操种部位发红结痂、小尿泡、指甲出现横沟。
可吸尿统:マ喉、流鼻涕、肺野出現异常闭影。
关节:疼痛、肿胀。

各注: 1. 主要症状之2以恢复期最为重要。 2、本病的男女之比为1.3-1.5:1,患者以男孩为多见。从单龄分布来看,4 9以下占80%85%,我见年0.3%-0.5%。 3、复友病例占2-3%,有兄弟姐妹友病的比例为1-2%。

単括地社:Japan Kawasaki Disease Research Center Rubo Building, 1-1-1, Kanda-Sudacho, Chiyoda-ku Tokyo 101-0041, Japan Tel: +81-3-5256-1121 Fax: +81-3-5256-1124



KD Workshop in Beijing and Shanghai











Nanjing and Xi'an



Nanjing Aug. 1997 and Oct. 1998





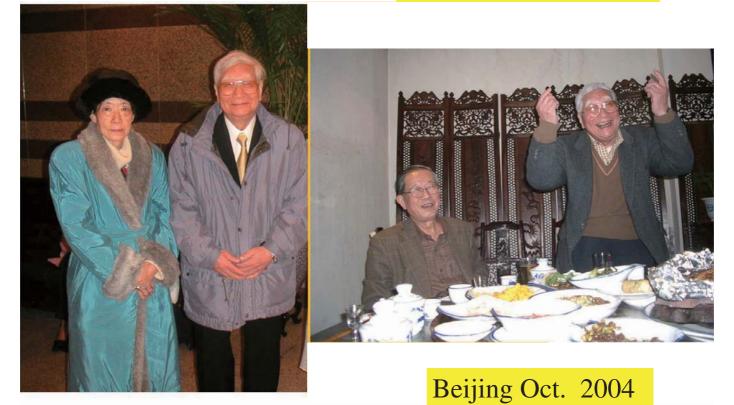


Location of the meeting between Russian General Stessel and General Nogi due to the opening of Rushun in front of the jujube tree in Suishiying, Jan 1905





Golden snub-nosed monkeys



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3. MONGOLIA(2005, 2008, 2017)

Head of Mongolia-Japan Joint Research

Dr. Dambadarjaa Davaalkham (Japanese nick name "Davasan")

Health Science University of Mongolia



Dava-san



















KD in Russia 2010

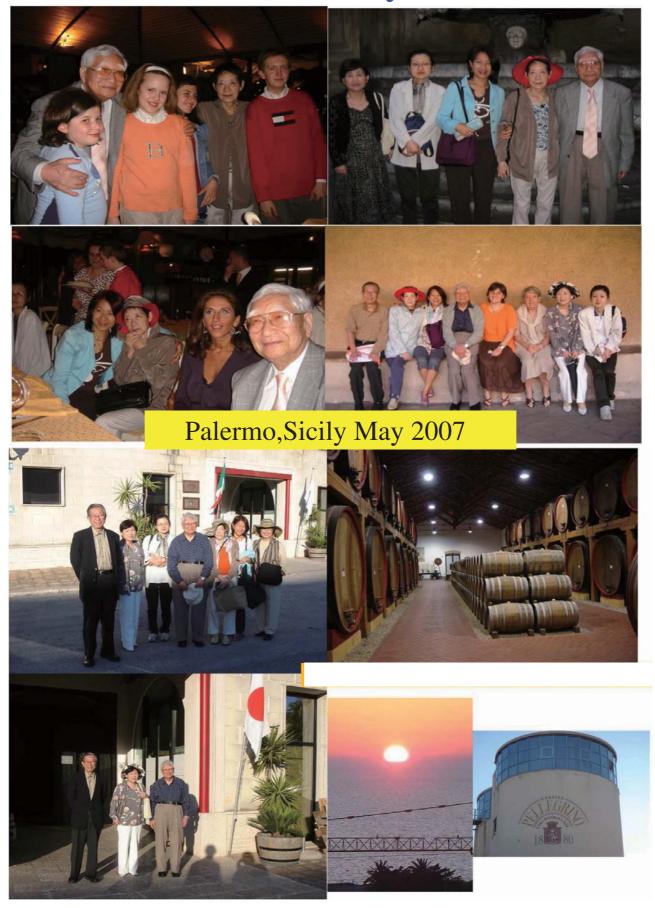








KD in Italy 2007



Dr. Kawaski's Beliefs Facing Medicine

Medical science is rigorous, Medical care is compassionate

れれ オ 13



Dr. Tomisaku Kawasaki received the 1st Japan Academy of Pediatrics Award April 23, 2006 (Kanazawa)







Grand celebration party held at Kaga restaurant "Wada"





Rest in peace, Dr. Kawasaki



He passed away on June 5, 2020, at the age of 95 years