# Management & Treatment of Children with Kawasaki Disease & Giant Coronary Artery Aneurysms &

We invite you to participate in this brief 15-minute survey about how you care for children with Kawasaki disease and giant coronary artery aneurysm. Your participation in this research is voluntary.

This survey was designed by Audrey Dionne (Boston Children's Hospital), Nagib Dahdah (CHU Sainte-Justine), Nadine Choueiter (Children's Hospital at Montefiore) and Mia Chen (Montreal University). This project has been approved by CHU Sainte-Justine's Research Ethics Board.

If you have any questions or comments about this research project or your role as a research participant, please contact the investigators at +1-514-345-4931 ext. 5407 or  $\underline{rocio.rojas.hsj@ssss.gouv.qc.ca$ .

If you have any issues or complaints about this research project, please contact the CHU Sainte-Justine ombudsman (+1-514-345-4749).

Eligibility: To be eligible, participants need to be physicians involved in the cardiac care and management of Kawasaki disease in children and/or young adults and be able to understand written English for medical purposes.

\* Obligatoire

### Introduction and baseline characteristics

	If you agree to participate to the survey, select "yes". By selecting "no" you will not be able to proceed with the survey.
	By agreeing to participate, you acknowledge that you were hereby informed that data will be anonymous (we will not share your personal information or your personal opinion collected in this survey). *
	Yes
	○ No
) 	During the past 12 months, have you provided inpatient and/or outpatient care, as a treating physician and/or a consultant for patients with Kawasaki disease. *
	○ No
	Yes, I provided both inpatient and outpatient care for patients with Kawasaki disease.
	Yes, I provided only inpatient care for patients with Kawasaki disease.
	Yes, I provided only outpatient care for patients with Kawasaki disease

3.	Plea	se estimate the number of Kawasaki disease patients you provide care for per year. *
	$\bigcirc$	Less than 10 per year
	$\bigcirc$	10 to 30 per year
	$\bigcirc$	More than 30 per year
4.	How	many years have you been in practice (do not include formal training)? *
	La va	leur doit être un nombre
_	Dlaa	se select your specialty. *
۶.		
	$\bigcirc$	General pediatric cardiologist
	$\bigcirc$	Interventional pediatric cardiologist
	$\bigcirc$	General adult cardiologist
	$\bigcirc$	Interventional adult cardiologist
	$\bigcirc$	I am not a cardiologist but I am responsible for KD patients
ŝ.		se indicate your primary employment setting, that is, the setting where you spend most our time. *
	$\bigcirc$	Groupe practice
	$\bigcirc$	Hospital – not affiliated with a university/medical school
	$\bigcirc$	Hospital – affiliated with a university/medical school
	$\bigcirc$	Other
7.	In w	hich country do you primarily practice? *

# General surveillance and imaging

8.	8. Beyond the first year of diagnosis, how often do you consider is an appropriate interval of time to follow up on KD patients with giant CAA? *							
	Every 3 mo	nths						
	Every 6 mo	nths						
	Every 9 mo	nths						
	Every 12 m	onths or longer						
9.	Considering a proximal left a The transthora abnormalities.	anterior descer acic echo shov	nding arter vs normal	ry: normal EC ventricular fu	G, no cardia Inction with	ac symptom: no regional	s. wall motion	
	the patient is							
	Please select y	our top 3 cho	ices. *					
		Cardiac cath	Coronary CTA	Cardiac MRI	Stress cardiac MRI	Stress echo	PET/SPECT nuclear stress test	None of the above
	1st choice	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
	2nd choice	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
	3rd choice	$\circ$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
10. Considering a patient with a history of Kawasaki disease with a giant aneurysm in the proximal left anterior descending artery: normal ECG, no cardiac symptoms. The transthoracic echo shows normal ventricular function with no regional wall motion abnormalities.							า	
	Other than the the patient is		ocardiogra	am and ECG,	what are yo	ur next step	s in surveilla	ance [if
	Please select y	our top 3 cho	ices. *					
		Cardiac cath	Coronary CTA	Cardiac MRI	Stress cardiac MRI	Stress echo	PET/SPECT nuclear stress test	None of the above
	1st choice	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
	2nd choice	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
	3rd choice	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$

bike)? *	at age would	you consid	ler exercise s	tress testing	ı (e.g. treadr	nill, stationa	ry
La valeur doit être	e un nombre						
12. Do you use ph	armacologic	stress testi	ng (e.g. dobı	utamin, dipy	ridamole/pe	ersantin)? *	
Yes, for you	nger patients or	those unable	e to exercise				
Yes, independent	ndent of patient	's age					
No, I do no	t use pharmacol	ogic stress te	sting				
13. Adolescent patient with a history of Kawasaki disease and a giant proximal right coronary artery aneurysm presents for follow-up and reports several episodes of chest pain during soccer practice over the past 6 months. What is your next preferred step of action [if the patient has normal ventricular function and no regional wall motion abnormalities on echocardiogram]?							
Please select y	our top 3 cho	oices. *					
	Cardiac cath	Coronary cardiac CT	Coronary cardiac MRI	Stress cardiac MRI	Stress echo	PET/SPECT nuclear stress test	Echo/ECG follow-up
1st choice	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
2nd choice	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
3rd choice	$\bigcirc$	$\bigcirc$	$\circ$	$\circ$	$\circ$	$\circ$	$\circ$
4. Adolescent patient with a history of Kawasaki disease and a giant proximal right coronary artery aneurysm presents for follow-up and reports several episodes of chest pain during soccer practice over the past 6 months.							
What is your n on echocardio		step of act	tion (if the pa	atient has de	epressed ver	ntricular fun	ction
Please select y	our top 3 cho	oices. *					
	Cardiac cath	Coronary CTA	Cardiac MRI	Stress myocardial MRI	Stress echo	PET/SPECT nuclear stress test	None of the above
1st choice	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
2nd choice	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
3rd choice	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$

15.	At what age do you transition patients with a history of Kawasaki disease and giant coronary artery aneurysms to adult cardiology? $\star$
	Adolescents (13-17 years old)
	Young adults (18-25 years old)
	I continue follow-up with an adult cardiologist
16.	Would you like to comment on your experience in the surveillance of KD patients with giant CAA?

# Medical management

17. Patient with a history of Kawasaki disease complicated by giant coronary artery aneurysm (right and left anterior descending artery): normal ECG, normal ventricular function and cardiac symptoms.	
Which medications would you recommend [if the patient is 2 years old]?	
Please select all that apply. *	
Aspirin	
Plavix	
Anticoagulation (warfarin, low molecular weight heparin, direct oral anticoagulant)	
Beta-blocker	
Statin	
18. Patient with a history of Kawasaki disease complicated by giant coronary artery aneurysr (right and left anterior descending artery): normal ECG, normal ventricular function and cardiac symptoms.	
Which medications would you recommend [if the patient is 12 years old]?	
Please select all that apply. *	
Aspirin	
Plavix	
Anticoagulation (warfarin, low molecular weight heparin, direct oral anticoagulant)	
Beta-blocker	
Statin	

19.	Patient with a history of Kawasaki disease complicated by giant coronary artery aneurysm (right and left anterior descending artery): normal ECG and ventricular function on MRI. There is a documented 75% stenosis of the left anterior descending coronary artery on angiography.
	Which medications would you recommend [if the patient is 2 years old]?
	Please select all that apply. *
	Aspirin
	Plavix
	Anticoagulation (warfarin, low molecular weight heparin, direct oral anticoagulant)
	Beta-blocker
	Statin Statin
20.	Patient with a history of Kawasaki disease complicated by giant coronary artery aneurysm (right and left anterior descending artery): normal ECG and ventricular function on MRI. There is a documented 75% stenosis of the left anterior descending coronary artery on angiography.
	Which medications would you recommend [if the patient is 12 years old]?
	Please select all that apply. *
	Aspirin
	Plavix
	Anticoagulation (warfarin, low molecular weight heparin, direct oral anticoagulant)
	Beta-blocker
	Statin
21.	Would you like to comment on your own experience in the medical management of KD patients with giant CAA?

# Coronary artery intervention

22.	Patient with a history of Kawasaki disease complicated by giant coronary artery aneurysm (right and left anterior descending artery). There is concern for acute coronary event.
	What do you think is the most reliable element in assessing the situation of patients for acute coronary event [if the patient is 2 years old] ? $^*$
	○ Symptoms
	Elevation of cardiac enzymes (troponins)
	C ECG changes
	A combination of the above
	None of the above
23.	Patient with a history of Kawasaki disease complicated by giant coronary artery aneurysm (right and left anterior descending artery). There is concern for acute coronary event.
	What do you think is the most reliable element in assessing the situation of patients for acute coronary event [if the patient is 12 years old]? *
	Symptoms
	Elevation of cardiac enzymes (troponins)
	C ECG changes
	A combination of the above
	None of the above
24.	Please rank the following indications for coronary artery intervention in patients with a history of Kawasaki disease and giant coronary artery aneurysm (from most indicative to least indicative). *
	Symptom driven (i.e. patients with chest pain, exercise intolerance otherwise not explained)
	Based on coronary imaging of coronary artery stenosis, even in asymptomatic patients
	Based on supportive myocardial perfusion / viability studies (e.g. perfusion MR, nuclear imaging, Dobutamin stress echo)
	Based on ischemic changes on exercise ECG

25.	You have a patient with a history of Kawasaki disease and giant coronary artery aneurysm, as well as a need for coronary intervention.
	Please select your preferred approach [if intervention is required for coronary artery STENOSIS]. *
	Percutaneous coronary intervention
	Coronary artery bypass surgery
26.	You have a patient with a history of Kawasaki disease and giant coronary artery aneurysm, as well as a need for coronary intervention.
	Please select your preferred approach [if intervention is required for coronary artery THROMBOSIS]. *
	Systemic thrombolysis
	Intra-coronary thrombolysis
	Percutaneous coronary intervention (balloon dilation and/or stenting)
	Coronary artery bypass surgery
27.	You have a patient with a history of Kawasaki disease and giant coronary artery aneurysm, as well as a need for coronary intervention.
	Where would you recommend the PERCUTANEOUS CORONARY ARTERY INTERVENTION to be performed [if the patient is 6 years old]? *
	At the pediatric center, by a pediatric interventionalist.
	At the pediatric center, combined case with both a pediatric and adult interventionalist
	At an adult center, by an adult interventionalist
	At an adult center, combined case with both a pediatric and adult interventionalist
28.	You have a patient with a history of Kawasaki disease and giant coronary artery aneurysm, as well as a need for coronary intervention.
	Where would you recommend the PERCUTANEOUS CORONARY ARTERY INTERVENTION to be performed [if the patient is 16 years old]? $\star$
	At the pediatric center, by a pediatric interventionalist.
	At the pediatric center, combined case with both a pediatric and adult interventionalist
	At an adult center, by an adult interventionalist
	At an adult center, combined case with both a pediatric and adult interventionalist

29. You have a patient with a history of Kawasaki disease and giant coronary artery aneurysm, as well as a need for coronary intervention.	
Where would you recommend the CORONARY ARTERY BYPASS SURGERY to be performed [if the patient is 6 years old]? $^{\star}$	
At the pediatric center, by a pediatric cardiac surgeon	
At the pediatric center, combined case with both a pediatric and adult cardiac surgeon	
At an adult center, by an adult cardiac surgeon	
At an adult center, combined case with both a pediatric and adult cardiac surgeon	
30. You have a patient with a history of Kawasaki disease and giant coronary artery aneurysm, as well as a need for coronary intervention.	
Where would you recommend the CORONARY ARTERY BYPASS SURGERY to be performed [if the patient is 16 years old]? $^*$	
At the pediatric center, by a pediatric cardiac surgeon	
At the pediatric center, combined case with both a pediatric and adult cardiac surgeon	
At an adult center, by an adult cardiac surgeon	
At an adult center, combined case with both a pediatric and adult cardiac surgeon	
31. Would you like to comment on your own experience pertaining to CA intervention in KD patients?	
32. Have you had any cases of coronary artery intervention (systemic thrombolysis, percutaneous coronary artery intervention, coronary artery bypass graft)? *	
Yes	
○ No	
33. Would you be interested in contributing and sharing your patient data with our team for an international, multi-institutional collaboration for future research and publication on coronary artery intervention? *	
Yes	
○ No	

### Contact information

If yes, please provide your contact information and preferred e-mail address to be contacted again here: <a href="mailto:mia.chen.1@umontreal.ca">mailto:mia.chen.1@umontreal.ca</a>

This is to ensure the anonymity of your survey responses. Your contact information will be received separately and will not be linked to the answers you provided in this survey.

### End of the survey

Thank you for your time and consideration in completing this survey.

We would be grateful if you could forward this survey link to practicing clinicians who may not have received our e-mail and who treat children with Kawasaki disease.

https://forms.office.com/r/V42FnFmzRH

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