Table 1: Summary of Results Related to Exercise Capacity

Article and Year	Number of participants	Average Age (Years)	Coronary Artery Lesion (CALs)	Chronicity (Years since KD onset)	EST Results	D&B Score
Nakamura et al., 2020 ²	KD group: 60	KD 9.8 (2.7) years	Not included in study	6.6 +/-2.6 years Unknown for 6 participants	• No significant differences in each stage of Treadmill Exercise Test (TMET) or in number of patients in the final stage of TMET	19
	Non-KD group: 60	Non-KD 10.2 (2.7) years			• Heart rate (HR) recovery was significantly faster in KD group than in non-KD group	
Tuan et al., 2018 ³	Total KD group: 49 KD group 1: 36	KD total: 12.39 +/- 3.6 KD group 1: 11.97 +/-3.4	KD total max Z score: 1.67+/-0.9 KD group 1 (max Z score <2.0): 1.3+/-	Time since KD diagnosis not reported	 KD group 2 had significantly lower peak metabolic equivalent (peak-MET), peak respiratory exchange ratio (RER), peak systolic blood pressure (BP), and peak rate-pressure product (PRPP) compared with KD group 1 Children with KD with a coronary artery Max-Z ≥2.0 had significantly lower peak exercise capacity than those with a max-Z <2.0 	19
	KD group 2: 13	KD group 2: 13.54 +/-4.01	KD group 2 (max Z score ≥2.0): 2.69 +/- 1.05			
Tuan et al., 2016 ⁴	KD Group 1: 63 (total)	Group 1: 12.27 +/- 3.37	4 small CAA 2 giant CAA	3.92 years to greater than 5 years	All routine parameters measured during standard exercise test were similar between KD and control groups, except that peak rate pressure products (PRPP) PRPP in KD group 1 to 3 were all lower than corresponding control groups significantly	19
	KD Group 2: 12	Group 2: 8.67 +/- 3.99	Group 2: 1 small CAA	KD Group 2: <5 years		
	KD Group 3: 51	Group 3: 13.12 +/- 3.20	Group 3: 2 giant CAA 3 small CAA	KD Group 3: >5 years		
Chien et al., 2020 ⁵	Group 1: 37	Group 1: 13.6 +/- 6.5	Group 1: 37 children with regressed CALs	Group 1: 9.9 +/- 4.3	 Group 1 had higher right and left brachial-ankle pulse wave velocity (baPWV) and lower oxygen consumption (VO2 peak) compared to group III Negative correlation of the baPWV and VO2 peak for patients with regressed coronary artery lesions (CALs) KD patents with regressed CALs had a lower VO2 peak compared with normal controls and KD patients without CALs 	18
	Group 2: 43	Group 2: 13.9 +/- 6.2	Group 2: children with KD without CALS	Group 2: 9.7 +/- 4.9		
	Group 3: 78	Group 3: 13.2 +/- 6.9	Control	Group 3: N/A		
			Normal Z score: 37			17

Aggarwal et al., 2019 ⁶	95 participants with KD	11.9 years	Dilated: 21 Small: 10 Medium: 12 Large: 10 Severe: 5	9.6 years	•	Adequate heart rate (HR) (>85% maximum predicted) achieved in 73.7% of participants including 74% with at least medium coronary artery aneurysms (CAA) Arrhythmias on EST were noted only among patients with CAA \geq 5 Premature ventricular contractions (PVC) were not seen in any patients without coronary artery involvement	
Kuan et al., 2022 ⁷	KD: 204 Males: 84 Females: 120	Total 13.6 +/- 5.57 Males: 13.77+/-5.86 Females: 13.36+/- 5.15	10 with CA Aneurysm (4 girls and 6 boys) 1 giant CAA 5 small CAA 1 medium CAA 3 small CAA	All participants with KD: 10.51 +/- 6.24 Males: 11.12 +/- 5.6 years Females: 10.06 +/- 6.6	•	No significant differences in cardiopulmonary fitness (CPF) for different body mass index (BMI) groups for whole KD analysis Significantly lower oxygen consumption (peak VO2) for overweight KD boys Girls, regardless of BMI status, had higher significant values on exercise stress test (EST), except underweight boys had higher peak metabolic equivalent (peak MET)	19
Gravel et al., 2015 ⁸	NS-KD: 117 CAA-KD: 133	NS-KD: 10.7 +/- 2.7 CAA-KD: 11.0 +/- 2.7	NS-KD: subjects without coronary sequelae CAA-KD: Subjects with documented coronary aneurysm(s)	NS-KD: 6.8 +/- 3.1 CAA-KD: 7.5 +/- 3.6	•	There were no significant differences between groups for heart rate (HR) and blood pressure (BP) response at any stages of exercise and recovery Lower heart rate at 1 minute into recovery as well as lower diastolic BP at 1 and 5 minutes into recovery in patients with abnormal SPECT imaging Prevalence of myocardial perfusion defects was similar	17
Lin et al., 2022 ⁹	KD: 30 Control: 30	KD 1 st CPET: 12.68 \pm 3.77 KD last CPET: 16.71 \pm 4.83 Control 1 st CPET: 13.06 \pm 3.64 Control last CPET: 16.12 \pm 2.70	at onset Max Z score at first CPET 1.11 ± 0.72 Max Z score at last CPET 1.23 ± 0.70 N/A	Time since KD diagnosis not reported	•	 among study groups No differences observed in first cardiopulmonary exercise test (CPET) between KD and control group In final CPET, control group had a higher percentage of measured oxygen consumption (VO2 at the anaerobic threshold to the predicted peak VO2) and higher VO2 than those in KD group Aerobic metabolism and peak exercise load capacities of adolescents with KD were significantly lower than those of control adolescents 	20
	KD: 50	KD group: 15.98 ± 1.85	KD group: 14 small CAA	14.08 ± 2.85			19

Yang et al., 2020	Control: 30	Control group: 15.90 ± 1.83	10 large CAA No giant CAA		 KD group demonstrated a significantly lower aerobic metabolic capacity measured by the ratio of VO2/kg at anaerobic threshold (AT%) KD group had a significantly lower exercise capacity measured by a lower peak to the predicted VO2/kg at peak Adolescents with KD history had significantly lower aerobic metabolism capacity and peak exercise load capacity than controls
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Table 2: Summary of Results Related to Physical Activity

Psychosocial Factors			D&B
Yang et al., 2020 ¹⁰	•	Correlations of amount of weekly exercise with exercise motivation and self-efficacy were stronger in the KD group	19
Baker et al., 2003	•	Parents of children in all KD groups reported lower general health perceptions than parents in the US population sample, suggesting that long-term concerns about their children's health exist regardless of overall health status KD patients without coronary artery aneurysms were similar to the general population in their general physical and psychosocial health Children with giant coronary artery aneurysms had lower overall physical summary scores	18
Banks et al., 2012	•	KD patients performed less moderate-to-vigorous physical activity (MVPA) than healthy children Male KD patients performed more MVPA than female KD patients Lower MVPA in KD patients was significantly associated with female gender, lower child self-efficacy score; lower Child Health Questionnaire score (CHQ-PF50) scores for role functioning behavioral issues, physical functioning, and family cohesion; and higher CHQ-PF50 scores for self-esteem and family activity limitations	16