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Prevalence and characteristics of coronary artery anomalies using invasive coronary angiography in 6,237 consecutive patients in a single center in Turkey

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Background & Aim: Coronary Artery Anomalies (CAAs) include clinically and anatomically diverse types of congenital heart defects occurring in a complicated spectrum. The aim of the present study is to describe congenital anomalies of coronary arteries (CAs) and their variations, and to identify the prevalence of these anomalies in the Turkish population.

Methods: The study included a total of 6,237 consecutive patients. Cine-angiographies and digital data of all patients undergoing CAG were reviewed by at least two independent and experienced observers. The basic anatomic classification method was used to classify patients with coronary artery anomalies.

Results: Of a total of 6,237 patients, 2,313 were females (37.1%) and 3,924 (62.7%) were males. Coronary artery anomalies were detected in 247 of 6,237 patients (3.9%). Of these patients, 48 (0.7%) had absent Left Main Coronary Artery (LMCA), 21 (0.3%) had anomalous origin from the appropriate sinus, 23 (0.4%) had anomalous origin from structures other than appropriate sinus, 31 (0.5%) had anomalous origin from the opposite sinus, 101 (1.6%) had myocardial bridge, and 23 (0.4%) had a coronary artery fistula.

Conclusions: Our study results suggest that the total rate of coronary anomaly was found much higher than those reported in various invasive angiographic studies.

Table 1. Prevalence of Anomalous Coronary Artery

	Number of Patients (n)	Angiographic Prevalence (%)
Absent Left Main Coronary Artery	48	0.7
Anomalous origin from appropriate sinus	21	0.3
Anomalous origin outside normal coronary sinuses	23	0.4
Anomalous origin from opposite coronary sinus	31	0.5
Myocardial bridging	101	1.6
Coronary Fistula	23	0.4
Prevalence of Anomalous Coronary Artery	247	3.9
Total Coronary Angiography	6,237	100

Biography

Kenan Erdem is a Cardiologist, has his expertise in coronary angiography and clinical cardiology. He has been working in Cardiology Department and doing researches since 2008.

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