

선천성 양측성 관동정맥루 1예

나병욱 · 임상욱 · 박재완 · 박필원 · 조윤경 · 김태용 · 차동훈

Bilateral Congenital Coronary Arteriovenous Fistulas

Byoung Wook Na, MD, Sang Wook Lim, MD, Jae Wan Park, MD, Pil Won Park, MD,
Yoon Kyoung Cho, MD, Tae Yong Kim, MD and Dong Hoon Cha, MD,Division of Cardiology, Department of Internal Medicine, College of Medicine, Pochon CHA University,
Sunghnam, Korea

ABSTRACT

Coronary arteriovenous fistulas (CAVF) are rare malformations of the coronary circulation. They are seen in approximately 0.1% to 0.2% of all patients undergoing selective coronary angiography. We experienced a 58-years old male patient with bilateral coronary AV fistulas whoes diagnosis was confirmed by selective coronary angiography. (Korean Circulation J 1998;28(9):1630-1632)

KEY WORD : Coronary arteriovenous fistulas (CAVF).

서 론

증 례

가 : , 58 , .
0.1 :
0.2% .¹⁾²⁾ 1865 Krause : 4
1 2% 48.7% ,
가 5%가
.³⁻⁵⁾ Lee⁶⁾ : 20
1 30
180/110 mmHg,
88 / , 22 / , 36.5 .
: 1998 4 20
: 1998 9 25
: , 463 - 070
351
: (0342) 780 - 5852 . : (0342) 780 - 5857
E - mail : imcha@hitel.kol.co.kr
ving .
Thrill hea -

: 12.3 g/dl, 68
 00/mm³ CK 42 U/L(38 160), CKMB
 0.5 ng/ml(0 5), LDH 266 U/L(200
 470), LDH LD1/LD2 0.56
 Total cholesterol 156
 mg/dl, HDL - cholesterol 36 mg/dl, LDL - cholesterol
 97 mg/dl, Triglyceride 113 mg/dl

X - :

Lead V2, 3, 4 3 4.5 mm ST

: Bruce 5 55
 120 bpm, 199/100 mmHg,
 7METS V3
 3 mm, V4 2.1 mm ST

(EF = 47%)

가 2

:
 74, 79, 76 vols.% 76 vol.%
 77 vol.%

가
 nitrate

가

(Figs. 1 and 2).

가

, amlodipine, verapamil, nitrate ,

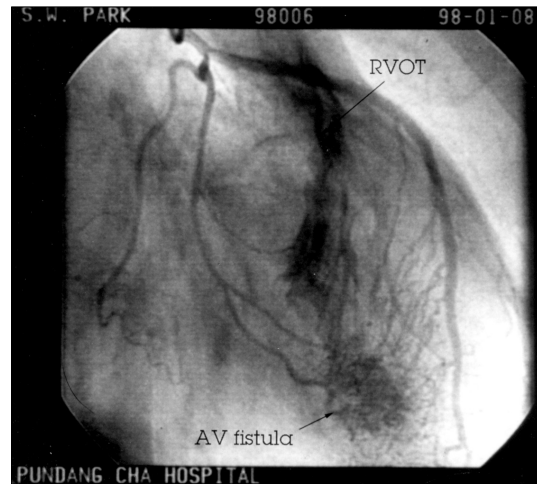


Fig. 1. RAO projection of left coronary angiogram revealed small coronary AV fistula draining from septal perforator to RV septum.

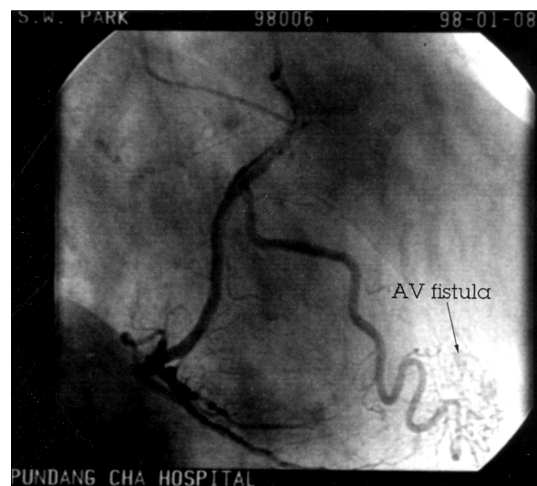


Fig. 2. RAO projection of right coronary angiogram revealed small coronary AV fistula with small aneurysmal dilation draining from RV branch to RV septum.

고 안

Intertrabecular sinusoids

7)
 1/50,000 가

20%

9)

5% . 10) 60%

25%, 18.3%, 50 58%,
(diagonal branch) 1.9%,
(circumflex marginal br -
anch) 0.7% .

29.8 43%, 14 40%, 19 20.2%,
5.8 19%, 5% 3)4)12)13)

34% 15%
13%
14)

가

(ligation of the fistulas, percutaneous tra -
nsluminal embolization) 15)

가 가

요 약

1

중심 단어 :

REFERENCES

1) Said SAM, Landman GHM. *Coronary-pulmonary fistular:*

- Longterm follow-up in operated and non-operated patients. Int J Cardiol* 1990;27:203-10.
- 2) Gilbert C, Van Hoof R, Van de Werf F, Piessens J, De Geest H. *Coronary artery fistulas in an adult population. Eur Heart J* 1986;7:437-43.
- 3) Fernandes ED, Kadivar H, Hallmann GJ, et al. *Congenital malformations of the coronary arteries. Ann Thorac Surg* 1992;54:732-40.
- 4) Kirklin JW, Barratt-Boyes BG. *Congenital anomalies of the coronary arteries. In: Kirklin JW, Barratt-Boyes BG, eds. Cardiac surgery. New York: Churchill Livingstone;1993. p.1167-93.*
- 5) Bauer EP, Piepho A, Klovekorn WP. *Coronary arteriovenous fistula: Surgical correction of a rare form. Thorac Cardiovasc Surg* 1994;42:237-9.
- 6) Won Ro Lee, June Soo Kim, Jeung Euy Park, Duk Kyung Kim. *Bilateral congenital coronary arteriovenous fistulas with giant aneurysms. Circulation* 1997;95:2170-1.
- 7) Gasul BM, Arcilla RA, Fell EH, et al. *Congenital coronary arteriovenous fistula: Clinical, phonocardiographic, angio-cardiographic and hemodynamic studies in five patients. Pediatrics* 1960;25:531-60.
- 8) Wenger NK. *Rare causes of coronary artery disease. In: Hurst JW (ed). The Heart. New York: McGraw Hill;1978. p.348-9.*
- 9) Tai YT, Fong PC, Chow WH. *Bilateral coronary-artery-to-pulmonary artery fistula coexistent with apical hypertrophic cardiomyopathy a case report. Angiology* 1992;43:72-5.
- 10) Griffiths SP, Euis K, Hordof AJ, Martin E, Levine RO, Gersony WM. *Spontaneous complete closure of a congenital coronary artery fistula. J Am Coll Cardiol* 1983;2:1169-73.
- 11) Liberthson RR, Sagar K, Berkoben JP, et al. *Congenital coronary arteriovenous fistula: Report of 13 patients, review of the literature and delineation of management. Circulation* 1979;59:849-54.
- 12) Bauer HH, Allmendinger PD, Flaherty J, et al. *Congenital coronary arteriovenous fistula: Spontaneous rupture and cardiac tamponade. Ann Thorac Surg* 1996;62:1521-3.
- 13) Olearchyk AS, Runk DM, Alavi M, Grosso MA. *Congenital bilateral coronary-to-pulmonary artery fistulas. Ann Thorac Surg* 1997;64:233-5.
- 14) Said SAM, el Garmal MIH, van der Werf T. *Coronary arteriovenous fistulas: Collective review and management of six new cases-changing etiology, presentation, and treatment strategy. Clin Cardiol* 1997;20:748-52.
- 15) Joy J, Titus T, Venkitachalam CG, Balakrishnan KG. *Bilateral coronary arteriovenous fistulas. Pediatr Cardiol* 1990;11:111-2.