

[Home](#) > [Journal](#) > [Medicine & Healthcare](#) > [WJCD](#)[Indexing](#) [View Papers](#) [Aims & Scope](#) [Editorial Board](#) [Guideline](#) [Article Processing Charges](#)[WJCD](#) > [Vol.3 No.1, January 2013](#)

OPEN ACCESS

## Coil embolization of bronchial artery aneurysm with high flow bronchial artery-pulmonary artery fistula

PDF (Size: 403KB) PP. 14-17 DOI : 10.4236/wjcd.2013.31004

### Author(s)

Yoshiro Matsuo, Takuya Okada, Masato Yamaguchi, Akhamadu Muradi, Teruaki Okuno, Noriaki Sakamoto, Koji Idoguchi, Koji Sugimoto

### ABSTRACT

We report a case of an asymptomatic 36-year-old man with a bronchial artery aneurysm in the right hilum. Selective angiography revealed a 25mmsaccular aneurysm and an efferent artery of the aneurysm forming a high flow bronchial artery-pulmonary artery fistula. Because of dilatation and tortuosity of the bronchial artery, the microcatheter could reach the efferent artery but not the fistula. Therefore, we embolized the fistula by sending microcoils through the bloodstream from the efferent artery to the fistula (the " flow-dependent" coil embolization technique), and further embolized the aneurysm by coil isolation and packing technique.

### KEYWORDS

Bronchial Artery Aneurysm; Bronchial Artery-Pulmonary Artery Fistula; Embolization

### Cite this paper

Matsuo, Y. , Okada, T. , Yamaguchi, M. , Muradi, A. , Okuno, T. , Sakamoto, N. , Idoguchi, K. and Sugimoto, K. (2013) Coil embolization of bronchial artery aneurysm with high flow bronchial artery-pulmonary artery fistula. *World Journal of Cardiovascular Diseases*, 3, 14-17. doi: 10.4236/wjcd.2013.31004.

### References

- [1] Cearlock, J.R., Fontaine, A.B., Urbaneja, A., et al. (1995) Endovascular treatment of a posttraumatic bronchial artery pseudoaneurysm. *Journal of Vascular and Interventional Radiology*, 6, 495-496. doi:10.1016/S1051-0443(95)72852-4
- [2] Osada, H., Kawada, T., Ashida, H., et al. (1986) Bronchial artery aneurysm. *The Annals of Thoracic Surgery*, 41, 440-442. doi:10.1016/S0003-4975(10)62706-3
- [3] Kasashima, F., Endo, M., Kosugi, I., et al. (2003) Mediastinal bronchial artery aneurysm treated with a stent-graft. *Journal of Endovascular Therapy*, 10, 381-385. doi:10.1583/1545-1550(2003)010<0381:MBAATW>2.0.CO;2
- [4] Tanaka, K., Ihaya, A., Horiuchi, T., et al. (2003) Giant mediastinal bronchial artery aneurysm mimicking benign esophageal tumor: A case report and review of 26 cases from literature. *Journal of Vascular Surgery*, 38, 1125-1129. doi:10.1016/S0741-5214(03)00707-9
- [5] Hoffman, V., Ysebaert, D., De Schepper, A., et al. (1996) Acute superior vena cava obstruction after rupture of a bronchial artery aneurysm. *Chest*, 110, 1356-1358. doi:10.1378/chest.110.5.1356
- [6] Sancho, C., Dominguez, J., Escalante, E., et al. (1999) Embolization of an anomalous bronchial artery aneurysm in a patient with agnesis of the left pulmonary artery. *Journal of Vascular and Interventional Radiology*, 10, 1122-1126. doi:10.1016/S1051-0443(99)70202-2
- [7] Kalangos, A., Khatchaturian, G., Panos, A., et al. (1997) Ruptured mediastinal bronchial artery aneurysm: A dilemma of diagnosis and therapeutic approach. *The Journal of Thoracic and Cardiovascular Surgery*, 114, 853-856. doi:10.1016/S0022-5223(97)70094-1

- [Open Special Issues](#)
- [Published Special Issues](#)
- [Special Issues Guideline](#)

[WJCD Subscription](#)[Most popular papers in WJCD](#)[About WJCD News](#)[Frequently Asked Questions](#)[Recommend to Peers](#)[Recommend to Library](#)[Contact Us](#)

Downloads: 13,873

Visits: 67,041

[Sponsors >>](#)

- [8] Chantepie, A., Robert, M., Pelletier, J., et al. (1980) Mycotic aneurysm of bronchial artery: Apropos of a case in an infant. *Cirugia Pediátrica*, 21, 407-410.
- [9] Lu, P.H., Wang, L.F., Su, Y.S., et al. (2011) Endovascular therapy of bronchial artery aneurysm: five cases with six aneurysms. *CardioVascular and Interventional Radiology*, 34, 508-512. doi: 10.1007/s00270-010-9895-x
- [10] Aburano, H., Kawamori, Y., Horiti, Y., et al. (2006) Bronchial artery aneurysm embolization with NBCA. *CardioVascular and Interventional Radiology*, 29, 1141-1143. doi: 10.1007/s00270-005-0166-1