



岐阜大学機関リポジトリ

Gifu University Institutional Repository

Title	Markedly Ring-enhanced Optic Nerves Due to Metastasis of Signet-ring Cell Gastric Carcinoma(本文(Fulltext))
Author(s)	HAYASHI, Yuichi; KATO, Takehiro; TANAKA, Yuji; YAMADA, Megumi; KOUMURA, Akihiro; KIMURA, Akio; HOZUMI, Isao; INUZUKA, Takashi
Citation	[Internal Medicine] vol.[49] no.[5] p.[517]-[517]
Issue Date	2010
Rights	The Japanese Society of Internal Medicine (一般社団法人日本内科学会)
Version	出版社版 (publisher version) postprint
URL	http://hdl.handle.net/20.500.12099/47177

この資料の著作権は、各資料の著者・学協会・出版社等に帰属します。

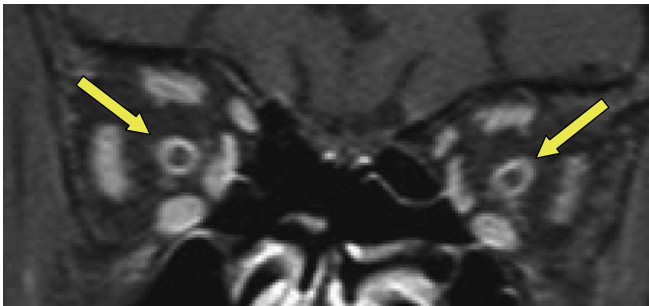
Markedly Ring-enhanced Optic Nerves Due to Metastasis of Signet-ring Cell Gastric Carcinoma

Yuichi Hayashi, Takehiro Kato, Yuji Tanaka, Megumi Yamada, Akihiro Koumura, Akio Kimura, Isao Hozumi and Takashi Inuzuka

Key words: MRI, signet-ring cell carcinoma, optic nerve, cerebrospinal fluid, optic neuropathy, leptomeningeal carcinomatosis

(Inter Med 49: 517, 2010)

(DOI: 10.2169/internalmedicine.49.3081)



Picture 1. Coronal fat-suppressed MRI with gadolinium showed a marked ring enhancement of the surrounding optic nerves (arrows).

Signet-ring cell carcinoma frequently causes leptomeningeal carcinomatosis, one cause of optic neuropathy in elderly patients. A 77-year-old woman had shown progressive bilateral blindness for one month without any other symptoms. Coronal fat-suppressed MRI with gadolinium showed a marked ring enhancement of the surrounding optic nerves (Picture 1). CSF cytodiagnosis and histopathological examination of the gastric biopsy samples revealed signet-ring cell carcinoma. The patient was diagnosed with leptomeningeal carcinomatosis due to gastric cancer. She died 2 weeks after the diagnosis. Coronal fat-suppressed MRI with gadolinium is useful for the differential diagnosis of optic neuropathy, especially leptomeningeal carcinomatosis (1, 2).

References

1. Sung JU, Lam BL, Curtin VT, Tse DT. Metastatic gastric carcinoma to the optic nerve. *Arch Ophthalmol* **116**: 692-693, 1998.
2. Suto C, Oohira A, Funaki C, Kanno S, Mori Y. Pathological findings of optic neuropathy from metastatic leptomeningeal carcinomatosis. *Jpn J Ophthalmol* **51**: 396-398, 2007.