

2022/7/1

治療方針番号	P	ME	2
疾患名			
転移性肝腫瘍			
適応			
少数転移性肝腫瘍 (oligometastatic, 3個以下)			
病態			
☒ 切除非適応 ☒ 化学療法不応 ☐ ☒ 再発性 ☒ 転移性 ☐ 他			
照射方法			
1) 末梢型, 総線量64GyE/8回 2) 中枢型, 総線量72.6GyE/22回 安全性の観点から原発性肝癌の照射方法は利用可 併用療法			
各疾患に対する標準化学療法に従い併用			
根拠となる論文, ガイドライン, 実績等			

- 1) Kanemoto A, et al. Proton beam therapy for liver metastasis from breast cancer: five case reports and a review of the literature, Int Canc Conf J, Vol 1, 210 – 214, 20121.
- 2) Fukumitsu N, et al., Proton beam therapy for metastatic liver tumors. Radiother Oncol, Vol 117, 322–327, 2015.
- 3) Gohongi T, et al., Concurrent proton beam radiotherapy and systemic chemotherapy for the metastatic liver tumor of gastric carcinoma: a case report. Jpn J Clin Oncol, 35, 40–4, 2005.
- 4) Mizumoto M, et al. Proton beam therapy for hepatocellular carcinoma: A comparison of three treatment protocols. Int J Radiat Oncol Biol Phys, Vol 81, 1039–1045, 2011.
- 5) Makishima H, et al. Single fraction carbon ion radiotherapy for colorectal cancer liver metastasis: A dose escalation study. Cancer Sci, Vol 110, 303–309, 2019.
- 6) Shiba S, et al. Carbon-ion radiotherapy for oligometastatic colorectal cancer in the liver or lung. Anticancer Res, Vol 41, 1997–2005, 2021.