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A case of Hepatocellular carcinoma, spinal metastasis patient with tuberculosis arthritis

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Background: Sorafenib is molecularly targeted agent, which is proven to have effect on improving the survival rate of advanced hepatocellular carcinoma(HCC). It is used in Child pugh class A, Eastern Cooperative Oncology Group Performance Status 0-1 patient with extrahepatic metastasis or vessel invasion of patients who are non responsive to other therapies. **Case:** A 70 year-old male had regular outpatient clinic follow up since 2016 for chronic hepatitis B and compensated liver cirrhosis. The liver MRI of October 2016, showed 2.1cm sized suspicious HCC lesion in hepatic segment 5/8. And successful intraoperative radiofrequency ablation was done. There were no evidence of local tumor recurrence or distant metastasis on regular follow up image studies. Two years later, the patient had symptoms of body weight loss (6kg/1 month), intermittent night sweating and both knee swelling. Chest CT and sputum study showed negative findings, but knee joint aspiration fluid showed tuberculosis positive result. We started anti tuberculosis medication. After, the patient had low back pain. On the spine MRI, osteolytic lesions in T12, L1, L2, L5, suggesting metastasis were seen. We conducted 5 times of radiation therapy for spinal metastasis. But on the follow up image study, the lesion of bone metastasis was aggravated. We considered Sorafenib for HCC metastasis. To start Sorafenib, we changed one of the tuberculosis medication Rifampicin to Cycloserine. Because Rifampicin had adverse drug to drug interaction with Sorafenib. The patient started Sorafenib 400mg twice daily. The patient was tolerable with taking Sorafenib and discharged without other complications. **Conclusion:** Previously, several reports about Sorafenib and tuberculosis were reported. Most of the reports were about HCC patients discontinuing Sorafenib because of pulmonary tuberculosis occurrence. This case report has clinical significance by using Sorafenib on tuberculosis arthritis patient. We have to consider drug to drug interaction of Sorafenib and other medicine. And it is important to have close observation on progression of infectious disease such as tuberculosis, when starting Sorafenib.

