Considering these complications, unnecessary liver tumor biopsies should not be performed for cases that can be diagnosed using other imaging modalities. However, there are cases in which a definitive histological diagnosis is required. With recent advances in drug therapy and genetic diagnosis, tumor biopsies are increasingly being performed as a reference for treatment policy decisions in patients receiving drug therapy.

Regarding indications for tumor biopsy in clinical practice, the histological type is determined from resected specimens, without tumor biopsies, when malignant tumors are suspected based on images, and where treatment and surgical resection are indicated. However, it is thought that the histological type of nodules that require treatment, but not surgical resection, should be confirmed by tumor needle biopsy as a general rule.