

Type	Label	Values
Stage	AJCC	I, II, IIIa, IIIb, IIIc, IVa, IVb
	BCLC	A1,A2,A3,A4, B, C, D
	CLIP	0, 1, 2, 3, 4, 5, 6
Stage Parameters	Ascites	None
		Mild-Suppressed on medications
		Moderate-Severe/Refractory
	Child-Pugh Class	A, B, C
	ECOG Performance Status	0, 1, 2, ≥ 3
	Extrahepatic Invasion	No, Yes
	Hepatic Encephalopathy	None
		Mild/Grade 1-2/Suppressed
		Severe/Grade 3-4/Refractory
	Macrovascular Invasion	No
		Yes - minor branch
		Yes - major branch
Metastasis	No	
	Yes - regional lymph nodes	
	Yes - distal	
Portal Hypertension	No, Yes	
Tumor Morphology	Uninodular and extension <50% of liver	
	Multinodular and extension <50% of liver	
	Massive or extension $\geq 50\%$ of liver	
Tumor Number	Single, 2-3, >3	
Tumor Size	<3 cm, 3-5 cm, >5cm	

Table 3.1: Stage and stage parameters. (ECOG=Eastern Cooperative Oncology Group).

Label	Description	Example Text
Ascites	Accumulation of fluid in the peritoneal cavity.	<p>“He denies increasing abdominal girth”</p> <p>“He has no problems with edema or ascites”</p> <p>“No free fluid in the abdomen” “Small volume ascites”</p>
Child-Pugh class	Score that summarizes liver function	<p>“Child-Pugh: A” “She is currently a Child’s B score 7”</p> <p>“He is Child class A” “CTP-A6 cirrhosis”</p>
ECOG performance	Measure of general well-being of a patient, (0-5).	<p>“ECOG performance 0.” “He works out at a gym”</p> <p>“Notable for chronic fatigue.”</p> <p>“She has been doing relatively well and has been undertaking her daily activities without any problems”</p>
Extrahepatic invasion	Spread of cancer outside of liver	<p>“Extrahepatic metastatic disease: None”</p> <p>“Lymph nodes: Scattered subcentimeter lymph nodes not pathologic by size criteria”</p> <p>“No evidence of extrahepatic extension”</p>
Hepatic encephalopathy	Confusion or altered consciousness due to liver failure	<p>“He has no significant ascites or encephalopathy cirrhosis has been complicated by hepatic encephalopathy”</p> <p>“Lactulose”</p> <p>“The patient denies any confusion, forgetfulness, or other symptoms of hepatic encephalopathy”</p>
Macrovascular invasion	Spread of cancer to nearby blood vessels	<p>“No evidence of portal vein thrombosis”</p> <p>“No obvious invasion of vessels is noted.”</p> <p>“Portal veins are patent.” “Vascular invasion: None”</p>
Metastasis	Spread of cancer to outside-liver lymph nodes	<p>“Lymph nodes suspicious for metastatic involvement: None”</p> <p>“No abnormal lymph nodes”</p> <p>“No evidence of extrahepatic extension or metastasis”</p> <p>“No other findings suggestive of extrahepatic disease”</p>
Portal hypertension	Elevation of hepatic venous pressure gradient to > 5mm Hg	<p>“No evidence of portal HTN”</p> <p>“Patient had an EGD which showed small varices”</p> <p>“Recanalization of the umbilical vein, perigastric and peri-splenic varices compatible with portal hypertension physiology”</p>
Tumor morphology	Size of tumor relative to the liver	<p>“1 lesion measuring 2.1 x 1.7 cm in segment 6”</p> <p>“Lobulated hypovascular lesion in segment VIII.”</p> <p>“Small segment 7 hepatic mass which enhances and demonstrates some degree of washout”</p>
Tumor number	Number of liver tumors	<p>“Multiple other indeterminate foci of arterial enhancement in the left and right lobe suspicious for HCC”</p> <p>“Two new liver lesions noted on the current examination with hypervascularity and washout suggesting hepatomas.”</p>
Tumor size	Radius size of liver tumor	<p>“there is a segment 4A arterial enhancing lesion which shows homogeneous washout on the delayed phase measuring 1.7 x 1.5 cm”</p> <p>“Well defined mass lesion measuring 6.3 x 7.1 x 6.1 cm, epicentered in segment 4a suggestive of hepatocellular carcinoma”</p>

Table 3.2: Text annotation examples