

## Liver Cancer in Singapore

Specifically for Singapore, liver cancer is the third most fatal cancer, annually affecting about 24 individuals in every 100,000 people. Among all primary liver cancers, hepatocellular carcinoma (HCC) is the most common, representing 90% of all cases. According to Singapore Cancer Registry 2010-2014, liver cancer is also the fourth most frequent cancer among male residents here, with men 3 times more likely to develop HCC than women. Though liver cancer is more prevalent in the older age groups from 40 to 50 years, incidence is observed in younger individuals who have either contracted Hepatitis B at birth or suffered from Hepatitis C in those with certain environmental conditions.

Talking on the matter, Dr Choo Su Pin<sup>[2]</sup> mentioned that majority of patients with liver cancer have no symptoms. Therefore, it is often detected by chance, as a result of an ultrasound test or a CT scan for other unrelated problems. In certain patients, there may be vague symptoms of heaviness or discomfort on the right side of the abdomen, with pain and loss of appetite or weight loss usually being late symptoms.

If left untreated, most HCC patients do not survive beyond 6 months. Surgery is the only treatment that can result in a reasonable survival of 5 years or beyond. However, new tumour growth is also common in liver cancer because of the underlying liver disease (i.e. hepatitis or cirrhosis).

Based on the Ministry of Health guidelines, patients with established hepatitis B or C carrier status or with liver cirrhosis would benefit from regular AFP estimations and ultrasound examinations. These tests are to be usually done at 6-month intervals and also depending on the severity of liver damage.

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