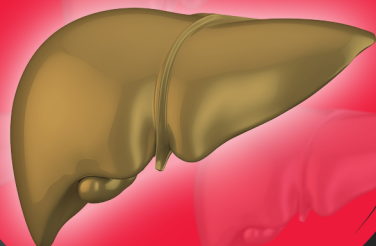


AFP-L3 & DCP



Hepatocellular Carcinoma Risk Assessment Biomarkers At a Glance

INTENDED USE

Lectin-reactive alpha-fetoprotein (AFP-L3) and des-gamma-carboxy prothrombin (DCP) are in vitro diagnostic serum biomarkers to be used as aids in the risk assessment for the development of hepatocellular carcinoma (HCC) in patients with Chronic Liver Disease in conjunction with the other laboratory findings, imaging studies and clinical assessment.

CLINICAL UTILITY

AFP-L3: Elevated AFP-L3 values ($\geq 10\%$) are associated with a 10.6-fold increased risk (Relative risk=10.6) of developing HCC within the next 21 months. The AFP-L3 test provides two results: The ratio of the percent of AFP-L3 in total AFP [(AFP-L3 concentration/total AFP concentration)*100] and the total AFP value in ng/ml.

DCP: Elevated DCP values (≥ 7.5 ng/ml) are associated with a 4.8-fold increased risk (Relative risk=4.8) of developing HCC.

HCC risk panel (AFP-L3, AFP and DCP): Studies show that the biomarkers AFP-L3, AFP, and DCP are complementary and more effective for risk assessment of primary liver cancer when they are measured at the same time [1-3]. The HCC risk panel provides results for AFP-L3, AFP, and DCP.

HOW TO ORDER

Please be sure to specify the laboratory test code when ordering the HCC risk panel, AFP-L3 and/or DCP to obtain results for in vitro diagnostic use. Ordering by test name only may result in other tests being run that may not be for clinical purposes.

LABORATORY TEST CODES

Laboratory	HCC Risk Panel AFP-L3, AFP, and DCP	AFP-L3* AFP-L3 and AFP	DCP**
Quest Diagnostics www.questdiagnostics.com	16222 (HCC Panel)	19529	19982
Laboratory Corporation of America www.labcorp.com	140002 (Hepatocellular Carcinoma Risk Profile)	141300	141325
ARUP laboratories www.aruplab.com	0081326 (Hepatocellular Carcinoma Tumor Marker Panel)	0081208	0081312
Mayo Medical Laboratories www.mayomedicallaboratories.com	HCCPR (Hepatocellular Carcinoma Risk Panel)	L3AFP	DCP

*AFP-L3: AFP-L3 is a glycosylated variant of alpha-fetoprotein (AFP), specific to HCC; The AFP-L3 test is the percent ratio of AFP-L3 in total AFP.

** DCP: des-gamma-carboxy prothrombin (DCP), also known as PIVKA-II, is an abnormal form of prothrombin. An increase in DCP is observed in many cases of HCC.

REIMBURSEMENT CODES

Test	CPT Code
AFP-L3 (includes AFP)	82107
DCP	83951

REFERENCES

- 1 Ertle JM, et al. A Combination of α -Fetoprotein and Des- γ -Carboxy Prothrombin Is Superior in Detection of Hepatocellular Carcinoma. *Digestion*. 2013;87:121-31.
- 2 Choi JY, et al. Diagnostic value of AFP-L3 and PIVKA-II in hepatocellular carcinoma according to total-AFP. *World J Gastroenterol*. 2013;19:339-46.
- 3 Hann HW, et al. Usefulness of highly sensitive AFP-L3 and DCP in surveillance for hepatocellular carcinoma in patients with a normal alpha-fetoprotein. *J Med Microb Diagn*. 2014;3:130

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