

**National Coverage Determination**  
**Procedure Code: 82105**  
**Alpha-fetoprotein**  
**CMS Policy Number: 190.25**  
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**Description:** Alpha-fetoprotein (AFP) is a polysaccharide found in some carcinomas. It is effective as a biochemical marker for monitoring the response of certain malignancies to therapy.

**Indications:**

AFP is useful for the diagnosis of hepatocellular carcinoma in high-risk patients (such as alcoholic cirrhosis, cirrhosis of viral etiology, hemochromatosis, and alpha 1-antitrypsin deficiency) and in separating patients with benign hepatocellular neoplasms or metastases from those with hepatocellular carcinoma and, as a non-specific tumor associated antigen, serves in marking germ cell neoplasms of the testis, ovary, retro peritoneum, and mediastinum.

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To review all requirements of this policy, please see: [CMS NCD listing by Chapter](#)

**Covered ICD-10 Codes.**

ICD-10	Descriptor
<a href="#">A52.74</a>	Syphilis of liver and other viscera
<a href="#">B18.0</a>	Chronic viral hepatitis B with delta-agent
<a href="#">B18.1</a>	Chronic viral hepatitis B without delta-agent
<a href="#">B18.2</a>	Chronic viral hepatitis C
<a href="#">B66.1</a>	Clonorchiasis
<a href="#">B66.3</a>	Fascioliasis
<a href="#">C22.0</a>	Liver cell carcinoma
<a href="#">C22.1</a>	Intrahepatic bile duct carcinoma
<a href="#">C22.2</a>	Hepatoblastoma
<a href="#">C22.3</a>	Angiosarcoma of liver
<a href="#">C22.4</a>	Other sarcomas of liver
<a href="#">C22.7</a>	Other specified carcinomas of liver
<a href="#">C22.8</a>	Malignant neoplasm of liver, primary, unspecified as to type
<a href="#">C22.9</a>	Malig neoplasm of liver, not specified as primary or sec
<a href="#">C38.1</a>	Malignant neoplasm of anterior mediastinum

<a href="#">C38.2</a>	Malignant neoplasm of posterior mediastinum
<a href="#">C38.3</a>	Malignant neoplasm of mediastinum, part unspecified
<a href="#">C38.8</a>	Malig neoplasm of overl sites of heart, mediastinum and pleura
<a href="#">C56.1</a>	Malignant neoplasm of right ovary
<a href="#">C56.2</a>	Malignant neoplasm of left ovary
<a href="#">C56.9</a>	Malignant neoplasm of unspecified ovary
<a href="#">C62.00</a>	Malignant neoplasm of unspecified undescended testis
<a href="#">C62.01</a>	Malignant neoplasm of undescended right testis
<a href="#">C62.02</a>	Malignant neoplasm of undescended left testis
<a href="#">C62.10</a>	Malignant neoplasm of unspecified descended testis
<a href="#">C62.11</a>	Malignant neoplasm of descended right testis
<a href="#">C62.12</a>	Malignant neoplasm of descended left testis
<a href="#">C62.90</a>	Malig neoplasm of unsp testis, unsp descended or undescended
<a href="#">C62.91</a>	Malig neoplasm of right testis, unsp descended or undescended
<a href="#">C62.92</a>	Malig neoplasm of left testis, unsp descended or undescended
<a href="#">C78.1</a>	Secondary malignant neoplasm of mediastinum
<a href="#">C78.7</a>	Secondary malig neoplasm of liver and intrahepatic bile duct
<a href="#">C79.60</a>	Secondary malignant neoplasm of unspecified ovary
<a href="#">C79.61</a>	Secondary malignant neoplasm of right ovary
<a href="#">C79.62</a>	Secondary malignant neoplasm of left ovary
<a href="#">C79.82</a>	Secondary malignant neoplasm of genital organs
<a href="#">C7A.00</a>	Malignant carcinoid tumor of unspecified site
<a href="#">C7A.090</a>	Malignant carcinoid tumor of the bronchus and lung
<a href="#">C7A.091</a>	Malignant carcinoid tumor of the thymus
<a href="#">C7A.092</a>	Malignant carcinoid tumor of the stomach
<a href="#">C7A.093</a>	Malignant carcinoid tumor of the kidney
<a href="#">C7A.094</a>	Malignant carcinoid tumor of the foregut, unspecified
<a href="#">C7A.095</a>	Malignant carcinoid tumor of the midgut, unspecified
<a href="#">C7A.096</a>	Malignant carcinoid tumor of the hindgut, unspecified
<a href="#">C7A.098</a>	Malignant carcinoid tumors of other sites
<a href="#">C7B.00</a>	Secondary carcinoid tumors, unspecified site
<a href="#">C7B.01</a>	Secondary carcinoid tumors of distant lymph nodes
<a href="#">C7B.02</a>	Secondary carcinoid tumors of liver
<a href="#">C7B.03</a>	Secondary carcinoid tumors of bone
<a href="#">C7B.04</a>	Secondary carcinoid tumors of peritoneum
<a href="#">C7B.09</a>	Secondary carcinoid tumors of other sites
<a href="#">C7B.1</a>	Secondary Merkel cell carcinoma
<a href="#">C7B.8</a>	Other secondary neuroendocrine tumors
<a href="#">D13.4</a>	Benign neoplasm of liver
<a href="#">D13.5</a>	Benign neoplasm of extrahepatic bile ducts
<a href="#">D37.6</a>	Neoplasm of uncertain behavior of liver, GB & bile duct
<a href="#">D64.0</a>	Hereditary sideroblastic anemia

<a href="#">D64.1</a>	Secondary sideroblastic anemia due to disease
<a href="#">D64.2</a>	Secondary sideroblastic anemia due to drugs and toxins
<a href="#">D64.3</a>	Other sideroblastic anemias
<a href="#">D81.810</a>	Biotinidase deficiency
<a href="#">D84.1</a>	Defects in the complement system
<a href="#">E78.2</a>	Mixed hyperlipidemia
<a href="#">E83.00</a>	Disorder of copper metabolism, unspecified
<a href="#">E83.01</a>	Wilson's disease
<a href="#">E83.09</a>	Other disorders of copper metabolism
<a href="#">E83.10</a>	Disorder of iron metabolism, unspecified
<a href="#">E83.110</a>	Hereditary hemochromatosis
<a href="#">E83.111</a>	Hemochromatosis due to repeated red blood cell transfusions
<a href="#">E83.118</a>	Other hemochromatosis
<a href="#">E83.119</a>	Hemochromatosis, unspecified
<a href="#">E83.19</a>	Other disorders of iron metabolism
<a href="#">E84.19</a>	Cystic fibrosis with other intestinal manifestations
<a href="#">E84.9</a>	Cystic fibrosis, unspecified
<a href="#">E88.01</a>	Alpha-1-antitrypsin deficiency
<a href="#">G89.3</a>	Neoplasm related pain (acute) (chronic)
<a href="#">I25.84</a>	Coronary atherosclerosis due to calcified coronary lesion
<a href="#">I74.01</a>	Saddle embolus of abdominal aorta
<a href="#">I74.09</a>	Other arterial embolism and thrombosis of abdominal aorta
<a href="#">I74.10</a>	Embolism and thrombosis of unspecified parts of aorta
<a href="#">I74.19</a>	Embolism and thrombosis of other parts of aorta
<a href="#">J98.59</a>	Other diseases of mediastinum, not elsewhere classified
<a href="#">K70.2</a>	Alcoholic fibrosis and sclerosis of liver
<a href="#">K70.30</a>	Alcoholic cirrhosis of liver without ascites
<a href="#">K70.31</a>	Alcoholic cirrhosis of liver with ascites
<a href="#">K73.0</a>	Chronic persistent hepatitis, not elsewhere classified
<a href="#">K73.1</a>	Chronic lobular hepatitis, not elsewhere classified
<a href="#">K73.2</a>	Chronic active hepatitis, not elsewhere classified
<a href="#">K73.8</a>	Other chronic hepatitis, not elsewhere classified
<a href="#">K73.9</a>	Chronic hepatitis, unspecified
<a href="#">K74.0</a>	Hepatic fibrosis
<a href="#">K74.60</a>	Unspecified cirrhosis of liver
<a href="#">K74.69</a>	Other cirrhosis of liver
<a href="#">K75.4</a>	Autoimmune hepatitis
<a href="#">K76.81</a>	Hepatopulmonary syndrome
<a href="#">N44.1</a>	Cyst of tunica albuginea testis
<a href="#">N44.2</a>	Benign cyst of testis
<a href="#">N44.8</a>	Other noninflammatory disorders of the testis
<a href="#">N50.3</a>	Cyst of epididymis

<a href="#">N50.811</a>	Right testicular pain
<a href="#">N50.812</a>	Left testicular pain
<a href="#">N50.819</a>	Testicular pain, unspecified
<a href="#">N50.82</a>	Scrotal pain
<a href="#">N50.89</a>	Other specified disorders of the male genital organs
<a href="#">N53.12</a>	Painful ejaculation
<a href="#">N53.8</a>	Other male sexual dysfunction
<a href="#">N53.9</a>	Unspecified male sexual dysfunction
<a href="#">Q53.111</a>	Unilateral intraabdominal testis
<a href="#">Q53.112</a>	Unilateral inguinal testis
<a href="#">Q53.13</a>	Unilateral high scrotal testis
<a href="#">Q53.211</a>	Bilateral intraabdominal testes
<a href="#">Q53.212</a>	Bilateral inguinal testes
<a href="#">Q53.23</a>	Bilateral high scrotal testes
<a href="#">R39.83</a>	Unilateral non-palpable testicle
<a href="#">R39.84</a>	Bilateral non-palpable testicles
<a href="#">R91.1</a>	Solitary pulmonary nodule
<a href="#">R91.8</a>	Other nonspecific abnormal finding of lung field
<a href="#">R93.1</a>	Abnormal findings on dx imaging of heart and cor circ
<a href="#">R93.2</a>	Abnormal findings on dx imaging of liver and biliary tract
<a href="#">R93.5</a>	Abn findings on dx imaging of abd regions, inc retroperiton
<a href="#">R93.811</a>	Abnormal radiologic findings on dx imaging of right testicle
<a href="#">R93.812</a>	Abnormal radiologic findings on dx imaging of left testicle
<a href="#">R93.813</a>	Abnormal radlge findings on dx imaging of testicles, bi
<a href="#">R93.819</a>	Abnormal radiologic findings on dx imaging of unsp testicle
<a href="#">R93.89</a>	Abnormal findings on dx imaging of oth body structures
<a href="#">R97.8</a>	Other abnormal tumor markers
<a href="#">Z17.0</a>	Estrogen receptor positive status [ER+]
<a href="#">Z17.1</a>	Estrogen receptor negative status [ER-]
<a href="#">Z85.05</a>	Personal history of malignant neoplasm of liver
<a href="#">Z85.43</a>	Personal history of malignant neoplasm of ovary
<a href="#">Z85.47</a>	Personal history of malignant neoplasm of testis