



شبكة المعلومات الجامعية

بسم الله الرحمن الرحيم



شبكة المعلومات الجامعية
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شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم



شبكة المعلومات الجامعية

جامعة عين شمس

التوثيق الالكتروني والميكروفيلم

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Role of Triphasic Helical CT and Recent MRI Techniques in Diagnosis of Hepatocellular Carcinoma

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ESSAY

Submitted for partial fulfillment of master degree in
Radiodiagnosis

By

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(M.B.,B.Ch.)

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Faculty of Medicine
Ain Shams University
2005

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2005

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Introduction:-

Hepatocellular carcinoma is the predominant primary malignancy of the liver .It accounts for more than 80% of these tumors and has an annual incidence of approximately 1 million new cases .80%- 90% of patients with hepatocellular carcinoma have underlying cirrhosis .

Lee RG,1994

Persistent hepatitis C Virus infection is closely linked to the occurrence of hepatocellular carcinoma;antibodies to hepatitis C virus are found in as many as 80% of patients with hepatocellular carcinoma in countries such as Japan,Spain and Italy.

Kew MC,1994

The prognosis of patients with hepatocellular carcinoma depends on the hepatic function,tumor size, and extent at diagnosis.

Computed tomography and magnetic resonance imaging are use ful imaging modalities for the diagnosis of hepatocellular carcinomas and in assessing their operability.

Ngan H,1997

It is important to diagnose hepatocellular carcinoma (HCC) in early stage ,because viral cirrhosis and viral hepatitis are complicated by HCC. Non-contrast and enhanced CT and MRI are very useful to visualize and diagnose HCC objectively .Especial CT and MRI imaging with dynamic study is essential to diagnose HCC ,because it is usually hypervascular.Dynamic CT and MRI also improve differential diagnosis in the characterization of the tumor. However, to perform useful dynamic study, it is necessary use a CT unit which can make a helical scan , or a MR system very fast imaging technique available that can obtain more than 15 sections within a single breath hold .Tissue specific contrast medium , such as superparamagnetic iron oxide that is available only on MRI, is useful for diagnosis of HCC.

Murakami , 2004

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Both MRI and spiral CT multi-phase dynamic contrast enhanced scanning could demonstrate the enhancement features of SHCC, and arterial phase scan of MRI was superior to spiral CT in reflecting the hypervascular characterization of SHCC. In addition, MRI was better than spiral CT in characterization of hepatic lesions combined with SE sequence.

Kwak, 2004

Aim of work :-

To highlight the role of tri-phasic helical computed tomography and recent magnetic resonance imaging techniques in diagnosis of hepatocellular carcinoma.

monitors

Contents:-

- Introduction and aim of work .
- Imaging Anatomy of the liver .
- Pathology of Hepatocellular carcinoma .
- Technique of helical CT for liver Imaging .
- Technique of MRI for liver imaging .
- MRI and helical CT manifestations in Hepatocellular carcinoma .
- Summary and conclusion.
- References.
- Arabic summary.

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