

THE IMPACT OF HCV ON BONE DISEASE IN HEMODIALYSIS PATIENTS

Yasser Ahmed¹, Howayda El Shinnawi¹, <u>Magdy El Sharkawy¹</u>, Sahar M.Shawki¹, Mahmoud A. Montasser¹

1 Internal medicine department, nephrology division, Ain Shams University, Cairo, Egypt.

magdi35@hotmail.com





More than 170 million people worldwide are chronically infected with the hepatitis C virus (HCV), which is

INTRODUCTION

Patients and Methods

This study was done on 90 stable hemodialysis patients, in Ain Shams University hospital.

responsible for over 1 million deaths resulting from cirrhosis and liver cancers.

Patients with end-stage renal disease (ESRD) are at increased risk for acquiring HCV infection. The role of HCV in the course, morbidity, and mortality of renal disease is often not adequately considered. Patients on HD have a significantly higher annual incidence of hepatitis C virus (HCV) infection, depending on the

country.

The prevalence of HCV infection varies greatly, from less than 5% to nearly 60% according to different areas of the world.

Egyptian HD patients have almost 55% prevalence of HCV infection.

Patients were divided in to 3 groups:

G1: 30 patients with HCV Antibody negative serology

G2: 30 patients with HCV Antibody positive serology with no stigmata of chronic liver diseaseG3: 30 patients with HCV Antibody positive serology with stigmata of chronic liver disease.Bone biopsy was performed on selected patients (21),

Patients who accepted to do biopsy.

patients who were indicated clinically according to the KDOQI guidelines. Bone biopsies were taken for 21 patients,

9 patients in G1,
7 patients in G2, and
5 patients in G3.



A Bard® Ostycut® disposable needle (14 gx 12.5 cm) was used, after double tetracycline labeling. Samples taken were examined by light microscopy and ultraviolet light.

RESULTS

Comparison between patterns of Gi

G1: Comparison between patterns of G2: Co

G2: Comparison between patterns of

G3: Comparison between patterns of bone

AIM OF THE WORK

To study the impact of hepatitis C virus on metabolic bone disease in hemodialysis patients.

And its impact on bone histology in HCV +ve vs HCV –ve HD patients.

RESULTS

Both G1, and G2 showed an increased prevalence to hyperparathyroid bone disease (60% and 56.7%) respectively. While, the G3: HCVAb positive serology with stigmata of chronic



liver disease, showed a higher prevalence to low turnover uremic osteodystrophy or adynamic bone disease (ABD).

1= mixed uremic osteodystropy
2= hyperparathyroid bone disease

PATTERN OF BONE DISEASE

0 - Low turn over uremic osteodystrophy 1- mixed uremic osteodystropy 2- hyperparathyroid bone disease

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Low turn over uremic osteodystrophy mixed uremic osteodystropy hyperparathyroid bone disease I= mixed uremic osteodystropy
 PATTERN OF BONE
 Pattern of Bone disease





Dialysis - Bone disease

Magdy ElSharkawy

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On the other hand, patients with manifested chronic liver disease, showed a different pattern of bone disease.



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