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## Prevalence of hepatic fibrosis using Shearwave Elastography among Filipino patients sonographically assessed with fatty liver disease

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**Background:** The fatty liver disease is the most common finding in abdominal ultrasound examinations, wherein a relevant percentage may develop liver cirrhosis. This study reveals the prevalence of hepatic fibrosis in patients who with fatty liver disease and takes into account the association of both factors.

**Methods:** All shear wave ultrasound results from February 1, 2016, to January 31, 2018, were reviewed. These reviewed for the presence of findings of fatty liver disease. The total patients with and without fatty liver disease and hepatic fibrosis were tabulated. Mean Shearwave values were recorded and classified according to the degree of fibrosis.

**Results:** Of the 208 patients having the fatty liver disease, a total of 142 (68.3%) patients had evidence of fibrosis. Only 66 (31.7%) patients had normal results. 126 (88.7%) of the patients with fibrosis had were classified as mild, 12 (9.2%) of them were moderate and 3 (2.1) were severe. 23 (16.2%) were within 20-39 years, 67 (47.2%) were between 40-59 years, 47 (33.10%) between 60-79 years and 5 (3.5%) were >80 years. 77 patients (54.2%) were male and 65 (45.8%) were female. Age and gender were tested for correlation to hepatic fibrosis using a CI=95% which revealed a p-value of < 0.98 for age and < 0.93 for gender; both were not significant. The prevalence of fibrosis in patients with hepatic steatosis was tested for significance with a CI=95% revealing a p-value of <0.0001, which was significant. Association between steatosis and fibrosis was also tested using a CI=95% showing a p-value of <0.0001, which was significant.

**Conclusion:** This study reveals that the prevalence of hepatic fibrosis in patients with the fatty liver disease is statistically significant. A significant association between fatty liver disease and hepatic fibrosis has been proven in this study. There is, however, no gender or age range predisposition for hepatic fibrosis.

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