

中文題目：紫藤凝集素 Mac-2 結合蛋白的血清表現預測慢性 C 型肝炎病人肝臟疾病嚴重度

英文題目：**Serum *Wisteria floribunda* Agglutinin-Positive Mac-2-Binding Protein Expression Predicts Disease Severity in Chronic Hepatitis C Patients**

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## **Background**

Noninvasive markers of liver fibrosis in patients with chronic hepatitis C (CHC) are needed for predicting disease progression. The *Wisteria floribunda* agglutinin-positive Mac-2-binding protein (WFA<sup>+</sup>-M2BP) was a recently developed glycol-biomarker for liver fibrosis.

## **Aim**

We assessed its efficacy in evaluating liver fibrosis stage and disease progression in CHC in Taiwan.

## **Methods**

A total of 229 patients with CHC who underwent liver biopsy and serological tests for WFA<sup>+</sup>-M2BP were enrolled. The association between WFA<sup>+</sup>-M2BP and clinical outcome was evaluated according to the liver fibrosis stage. We also aimed to find the factors that affected the WFA<sup>+</sup>-M2BP level in CHC.

## **Results**

According to the Metavir scoring system, there were 23 patients (10.0%) of F0, 62 (27.1%) of F1, 56 (24.5%) of F2, 38 (16.6%) of F3, and 50 patients (21.8%) of F4, respectively. The mean levels of WFA<sup>+</sup>-M2BP was  $1.68 \pm 1.41$  (range= 0.26 - 5.53) in F0,  $2.23 \pm 1.76$  (0.11-8.06) in F1,  $3.45 \pm 3.37$  (0.16-14.30) in F2,  $3.48 \pm 3.73$  (0.35-14.30) in F3, and  $3.77 \pm 3.70$  in F4 (0.46-19.78), respectively. The optimal cutoff values of WFA<sup>+</sup>-M2BP for fibrosis stages  $\geq F1$ ,  $\geq F2$ ,  $\geq F3$ , and F4 were 1.42, 1.61, 1.42, and 2.67, respectively. The accuracy for significant fibrosis ( $\geq F2$ ), advanced fibrosis ( $\geq F3$ ), and cirrhosis were 62.1%, 53.3%, and 65.0%, respectively. The linear regression analysis between liver fibrosis stage and WFA<sup>+</sup>-M2BP revealed significant trend from F0 to F4 (B, 0.52; 95% confidence interval [CI]: 0.222-0.825; p=0.001).

## **Conclusions**

WFA<sup>+</sup>-M2BP is a simple and reliable noninvasive marker for liver fibrosis assessment in CHC patients.