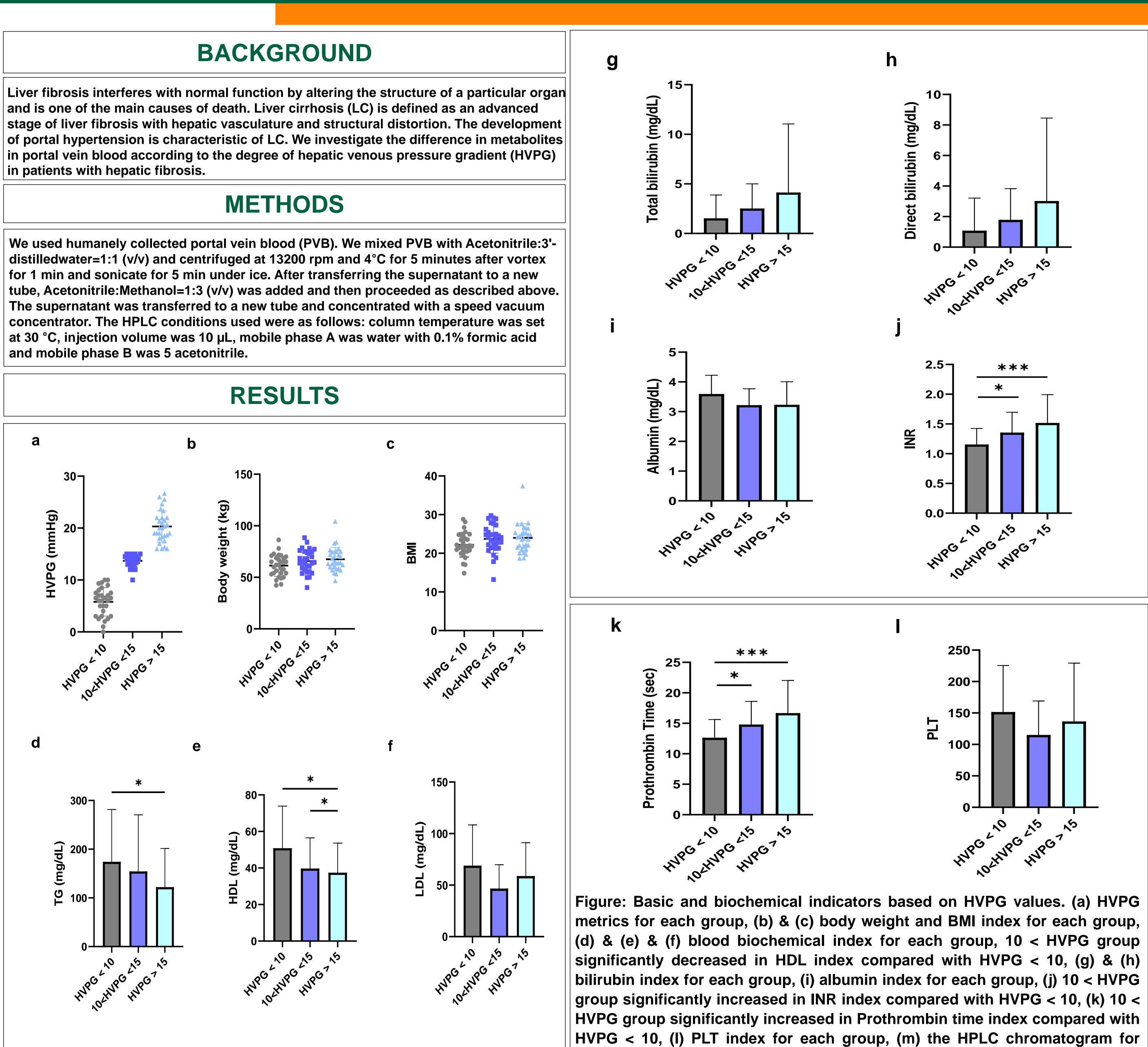
## Differences in metabolites and physiological maker between hepatic venous pressure gradients by portal vein blood in patients with liver fibrosis

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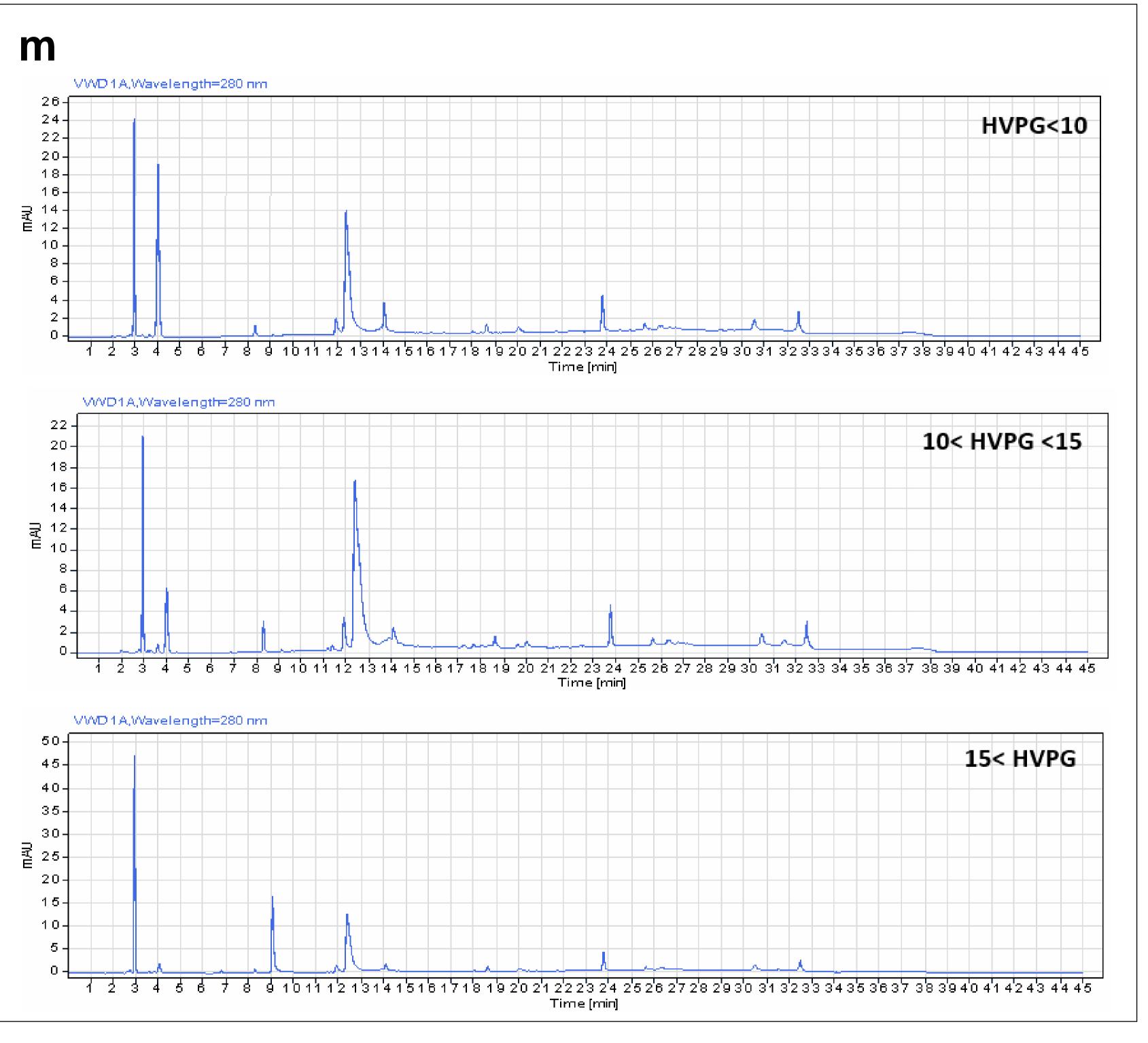


each group.



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104HVPG-



We measured the biochemical indicators HVPG, ALT, AST and Albumin using humanely collected PVB. The group consisted of three stages according to the degree of HVPG. The average HVPG of each group was  $6\pm2.3$ ,  $14.1\pm0.4$ , and  $22.2\pm4.2$ , showing differences between groups. The intergroup AST indices were 57±14.5, 74±37.6, and 103±48.7, indicating a proportional increase with increasing HVPG values. However, ALT and Albumin indices did not show differences between groups. In addition, meaningful results can be found in HDL, INR, and Prothrombin time indicators when checking blood biochemical indicators. PVB was sampled in each group and metabolite was analyzed by HPLC to confirm differences between groups. At the peak of retention time 4, 14 minutes, it can be seen that the area value is 139.4, 45.4, 16.2 mAU and 21.2, 9.2, 7.1 mAU and low from the group with high HVPG. On the other hand, at the peak of Retention time 9 minutes, it can be seen that the group with high HVPG has a large area value of 0.3, 0.8, and 107.6 mAU.

## CONCLUSION

We investigated differences in biochemical indices and metabolites in PVB in patients with liver fibrosis according to the degree of HVPG. Differences in biochemical indices according to the stage of HVPG were confirmed. In addition, metabolites were confirmed through HPLC, and differences in patterns depending on the stage were confirmed. This suggests that hepatic fibrosis patients can be a maker of severity without measuring HVPG.