

Study Cohort

Study Population:

406 Chinese adults with
biopsy-proven MASLD

Genotyping:

TF-rs1049296 CC: 50.2%
TF-rs1049296 CT/TT:
49.8%

Iron Deposition Patterns

(n=271, 66.7%):

Hepatocellular (HC): 16.6%
RES: 26.9%
Mixed: 56.5%

Core Finding

Significant Interaction:

Pinteraction = 0.035

High-Risk Profile:

TF-rs1049296 CT/TT + RES
iron deposition

Fibrosis Risk:

Adjusted OR = 6.65 (95% CI:
1.84-23.97)

Conclusion

Specificity Note:

No significant association with
other iron deposition patterns

Association particularly enhanced
in male patients

The TF-rs1049296 T allele and
RES iron deposition interact to
identify a MASLD subpopulation
at substantially elevated risk for
progressive liver fibrosis.