# Supplementary Material: Serum Cartilage Oligomeric Matrix Protein and Golgi Protein-73: New Diagnostic and Predictive Tools for Liver Fibrosis and Hepatocellular Cancer?

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**Table S1.** Diagnostic performance of GP73, COMP, APRI and FIB-4 and their combinations for detection of cirrhosis or significant fibrosis.

| Combinations | AUC (95%CI) for cirrhosis (*n* = 288) | *P*-value | AUC (95%CI) for significant (≥F2) fibrosis based on liver biopsy (*n* = 177) | *P*-value | AUC (95%CI) for significant (≥F2) fibrosis based on TE (*n* = 127) | *P*-value | AUC (95%CI) for significant (≥F3) fibrosis based on liver biopsy (*n* = 177) | *P*-value | AUC (95%CI) for significant (≥F3) fibrosis based on TE (*n* = 127) | *P*-value |
|---|---|---|---|---|---|---|---|---|---|---|
| GP73 + COMP + APRI + FIB-4 | 0.916 (0.878–0.946) | ref | 0.832 (0.768–0.883) | ref | 0.822 (0.744–0.884) | 0.239 | 0.844 (0.783–0.894) | ref | 0.806 (0.726–0.871) | 0.414 |
| GP73 + COMP + APRI | 0.889 (0.846–0.923) | 0.01 | 0.802 (0.736–0.858) | 0.129 | 0.800 (0.720–0.866) | 0.078 | 0.809 (0.743–0.864) | 0.049 | 0.792 (0.710–0.859) | 0.270 |
| GP73 + COMP + FIB-4 | 0.913 (0.874–0.943) | 0.578 | 0.829 (0.765–0.881) | 0.775 | 0.841 (0.766–0.900) | ref | 0.841 (0.779–0.892) | 0.680 | 0.817 (0.738–0.880) | ref |
| GP73 + COMP | 0.882 (0.839–0.917) | 0.004 | 0.789 (0.722–0.847) | 0.04 | 0.791 (0.710–0.858) | 0.078 | 0.800 (0.733–0.856) | 0.026 | 0.804 (0.724–0.869) | 0.662 |
| GP73 + APRI | 0.862 (0.817–0.900) | 0.004 | 0.773 (0.704–0.833) | 0.077 | 0.706 (0.619–0.784) | <0.001 | 0.782 (0.714–0.840) | 0.034 | 0.726 (0.640–0.801) | 0.007 |
| COMP + APRI | 0.829 (0.781–0.871) | <0.001 | 0.755 (0.684–0.816) | 0.007 | 0.809 (0.729–0.873) | 0.361 | 0.780 (0.712–0.839) | 0.011 | 0.771 (0.688–0.841) | 0.169 |
| GP73 + FIB-4 | 0.901 (0.861–0.933) | 0.145 | 0.826 (0.762–0.879) | 0.800 | 0.788 (0.707–0.856) | 0.012 | 0.845 (0.783–0.895) | 0.963 | 0.764 (0.680–0.834) | 0.012 |
| COMP + FIB-4 | 0.895 (0.853–0.928) | 0.03 | 0.801 (0.735–0.857) | 0.104 | 0.840 (0.773–0.905) | 0.795 | 0.834 (0.771–0.886) | 0.515 | 0.805 (0.725–0.870) | 0.588 |
| APRI + FIB-4 | 0.882 (0.839–0.917) | 0.005 | 0.780 (0.711–0.838) | 0.027 | 0.755 (0.671–0.827) | 0.021 | 0.825 (0.761–0.878) | 0.386 | 0.725 (0.639–0.801) | 0.014 |
| GP73 | 0.843 (0.795–0.883) | <0.001 | 0.742 (0.671–0.804) | 0.01 | 0.676 (0.587–0.756) | <0.001 | 0.759 (0.689–0.820) | 0.009 | 0.725 (0.638–0.800) | 0.033 |
| COMP | 0.770 (0.716–0.817) | <0.001 | 0.708 (0.635–0.774) | <0.001 | 0.772 (0.690–0.842) | 0.100 | 0.724 (0.652–0.788) | <0.001 | 0.766 (0.683–0.836) | 0.227 |
| APRI | 0.833 (0.784–0.874) | <0.001 | 0.762 (0.692–0.822) | 0.068 | 0.759 (0.675–0.830) | 0.052 | 0.810 (0.745–0.865) | 0.288 | 0.738 (0.653–0.812) | 0.043 |
| FIB-4 | 0.885 (0.846–0.920) | 0.02 | 0.799 (0.732–0.865) | 0.171 | 0.802 (0.722–0.868) | 0.210 | 0.841 (0.778–0.891) | 0.865 | 0.756 (0.672–0.828) | 0.038 |

*P*-values were calculated by DeLong test, using the combination with the higher AUC as reference. AUC: Area under the curve. GP73: Golgi protein 73. COMP: Cartilage oligomeric matrix protein. APRI: Aspartate aminotransferase to platelets index. FIB-4: Fibrosis-4. REF: reference. Probability $p(GP73 + COMP + APRI + FIB-4) = 1/[1 + e^{-(0.116 \times GP73 + 0.128 \times COMP - 0.894 \times APRI + 1.029 \times FIB-4 - 4.883)}]$. Probability $p(GP73 + COMP + APRI) = 1/[1 + e^{-(0.158 \times GP73 + 0.175 \times COMP + 0.447 \times APRI - 4.821)}]$. Probability $p(GP73 + COMP+FIB-4) = 1/[1 + e^{-(0.117 \times GP73 + 0.137 \times COMP + 0.628 \times FIB-4 - 4.856)}]$. Probability $p(GP73 + COMP) = 1/[1 + e^{-(0.177 \times GP73 + 0.180 \times COMP - 4.719)}]$. Probability $p(GP73 + APRI) = 1/[1 + e^{-(0.168 \times GP73 + 0.570 \times APRI - 3.096)}]$. Probability $p(COMP + APRI) = 1/[1 + e^{-(0.193 \times COMP + 0.766 \times APRI - 3.298)}]$. Probability $p(GP73 + FIB-4) = 1/[1 + e^{-(0.121 \times GP73 + 0.753 \times FIB-4 - 3.633)}]$. Probability $p(COMP + FIB-4) = 1/[1 + e^{-(0.150 \times COMP + 0.860 \times FIB-4 - 4.024)}]$. Probability $p(APRI + FIB-4) = 1/[1 + e^{-(-1.070 \times APRI + 1.441 \times FIB-4 - 2.703)}]$.