Supplementary Material

**Table 1 Suppl.** Correlation between HVPG, elastographic and ultrasound parameters.

|  |  |  |
| --- | --- | --- |
|  | **Pearson o Spearman correlation coefficient** | **p** |
| **Hepatic TE**  | 0.5 | 0.01 |
| **Spleen TE**  | 0.3 | 0.04 |
| **Hepatic ARFI** | 0.4 | 0.02 |
| **Spleen ARFI** | 0.5 | <0.01 |
| **Portal vein diameter**  | 0.4 | 0.02 |
| **Portal vein speed**  | -0.01 | 0.9 |
| **Hepatic artery speed**  | 0.3 | 0.2 |
| **Resistance index hepatic artery**  | -0.1 | 0.5 |
| **Spleen diameter**  | -0.03 | 0.8 |
| **Hepatic vein transit time**  | -0.1 | 0.5 |
| **Damping index** | 0.2 | 0.04 |

**Table 2 Suppl.** Univariate analysis of baseline characteristics between acute and chronic responders and non responders to beta-blockers.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Non acute response to beta-blockers****n= 13** | **Acute response to beta-blockers n=28** | **p** | **Non chronic response to beta-blockers****n=19** | **Chronic response to beta-blockers****n=11** | **p** |
| **Age (y)** | 59.0 (10.2) | 56.0 (7.1) | 0.3 | 56.5 (9.1) | 57.8 (5.3) | 0.6 |
| **Sex (M:F)(%)** | 100:0 | 78.6:21.4 | 0.1 | 84.2:15.8 | 90.9:9.1 | 0.9 |
| **Etiology** Hepatitis C virusAlcoholAutoinmuneNon alcoholic fatty liver diseaseOther | 2533.316.7250 | 28.646.47.17.110.7 | 0.5 | 26.342.110.515.85.3 | 27.336.4018.218.1 | 0.5 |
| **Child Pugh** ABC | 66.716.716.7 | 85.714.30 | 0.1 | 68.426.35.3 | 90.99.10 | 0.5 |
| **MELD**  | 11.8 (5.1) | 9.9 (3.3) | 0.2 | 10.4 (3.0) | 10.3 (2.2) | 0.9 |
| **Laboratory test**Leucocites (cels\*109L)Hemoglobine (mg/dl)Platelets (cels\*109L)Creatinine (mg/dl)Sodium (mg/dl)Potasium (mg/dl)Bilirrubine (mg/dl)Albumine (mg/dl)ALT (U/L)AST (U/L)Alkaline phosphatase (U/L)GGT (U/L)INR  | 5.0 (2.2)13.0 (2.4)96.8 (29.7)0.8 (0.2)139.0 (4.6)4.3 (0.7)1.8(1.4)3.8 (0.7)37.0 (44.6)48.3 (46.3)174.2 (187.4)124.4 (140.1)1.4 (0.5) | 6.5 (3.2)12.8 (3.2)118.6 (54.3)0.8 (0.2)140.1 (3.0)4.3 (0.4)1.4 (1.8)3.9 (0.6)43.0 (27.3)52.5 (30.6)115.6(54.4)121.9 (78.0)1.3 (0.2) | 0.20.90.20.70.40.90.60.50.60.70.10.90.2 | 6.2 (2.8)12.6 (2.3)118.5 (42.8)0.8 (0.2)140 (3.7)4.4 (0.5)1.5 (1.1)3.8 (0.6)35.9 (37.9)47.9 (38.2)159.8 (151.1)120.2 (117.7)1.3 (0.2) | 6.3 (2.8)13.5 (1.2)113 (49.5)0.8 (0.2)139.7 (3.6)4.0 (0.5)1.2 (0.4)4 (0.7)45.5 (27.5)53.3 (35.0)114.6 (55.9)120.2 (75.1)1.3 (0.2) | 0.90.30.80.70.80.10.30.30.50.70.40.90.8 |

\*Quantitative data are given by mean and standard deviation, qualitative data are given by percentage. \*\* ALT alanine aminotransferase AST aspartate aminotransferase GGT gamma glutamil transferase, INR International normalized ratio.

**Table 3 Suppl.** Follow up non invasive measurements after acute response to betablockers.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Non acute response to betablockers****n=13** | **Acute response to betablockers****n= 28**  | **p** |
| **Change in liver TE (KPa)** | - 2.1 (7.5) | -1.6 (13.7) | 0.9 |
| **Change in spleen TE (KPa)** | 0 (0) | 0.5 (11.5) | 0.9 |
| **Change in liver ARFI (m/s)** | 0.3 (0.5) | 0.1 (0.8) | 0.4 |
| **Change in spleen ARFI (m/s)** | 0.1 (0.3) | 0.1 (0.3) | 0.7 |
| **Change in portal vein diameter (mm)**  | 0.2 (1.8) | -0.2 (3.7) | 0.8 |
| **Change in portal vein speed (cm/s)** | -0.4 (4.9) | 0.9 (4.9) | 0.5 |
| **Change in hepatic artery speed (cm/s)** | -7.9 (14.5) | 4.2 (35.9) | 0.4 |
| **Change in resistance index hepatic artery** | 0.03 (0.1) | -0.01 (0.05) | 0.1 |
| **Change in spleen diameter (cm)** | -0.2 (0.5) | 0 (0.7) | 0.5 |
| **Change in hepatic transit time (s)** | -3.4 (4.9) | -1.8 (6.9) | 0.5 |
| **Change in damping index**  | -0.02 (2.6) | 0.95 (7.6) | 0.2 |

**Table 4 Suppl.** Follow up non-invasive measurements after chronic response to betablockers.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Non chronic response to betablockers****n=19** | **Chronic response to betablockers****n= 11** | **p** |
| **Change in liver TE (KPa)** | 6.2 (17.6) | 3.45 (17.6) | 0.8 |
| **Change in spleen TE (KPa)** | 0 (0) | -11.1 (0) | 0.9 |
| **Change in liver ARFI (m/s)** | 0.1 (0.5) | 0.1 (0.7) | 0.9 |
| **Change in spleen ARFI (m/s)** | 0.1 (0.3) | -0.02 (0.2) | 0.2 |
| **Change in portal vein diameter (mm)**  | -0.1 (2.1) | -0.15 (2.3) | 0.9 |
| **Change in portal vein speed (cm/s)** | 0.5 (6.5) | 2.12 (3.9) | 0.5 |
| **Change in hepatic artery speed (cm/s)** | 11.2 (22.9) | 27.3 (41.9) | 0.4 |
| **Change in resistance index hepatic artery** | 0.1 (0.3) | -0.01 (0.06) | 0.5 |
| **Change in spleen diameter (cm)** | -0.03 (0.8) | -0.2 (1.5) | 0.8 |
| **Change in hepatic transit time (s)** | -5.6 (8.3) | -4.2 (8.5) | 0.7 |
| **Change in damping index**  | 0.4 (0.7) | 0.1(0.4) | 0.2 |