**Table 1. Мatrix metalloproteinases 2, 9 and galectin-3 levels in the peripheral blood of gastric cancer patients and healthy donors, ng/mL**

|  |  |  |  |
| --- | --- | --- | --- |
| **Parameter** | **Gastric cancer patients** |  | **Control group** |
| **N** | **Median** | **Min. – max.** | **Quartiles** |  | **N** | **Median** | **Min. – max.** | **Quartiles** |
| MMP-2 | 60 | 219\* | 126–508 | 200–250 |  | 58 | 521\* | 295–1594 | 436–681 |
| MMP-9 | 60 | 952 | 407–1582 | 673–1155 |  | 58 | 967 | 239–1732 | 756–1195 |
| Galectin-3 | 60 | 12,9\*\* | 5.33–31.9 | 9.15–17.3 |  | 32 | 10.6\*\* | 5.42–25.0 | 7.55–12.3 |

MMP, matrix metalloproteinase; N, number of patients

\* p = 0.039 (Mann-Whitney test) compared to the control group

\*\* p < 0.0001 (Mann-Whitney test) compared to the control group

**Table 2. Мatrix metalloproteinases 2, 9 and galectin-3 levels in the peripheral blood of gastric cancer patients depending on the localization of the tumor, ng/mL (median [quartiles])**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Location of the tumor in the stomach** | **N** | **MMP-2** | **MMP-9** | **Galectin-3** |
| Proximal part | 18 | 222 [201–253] | 782 [453–1137] | 10.3 [8.3–15.2] |
| Body of the stomach | 25 | 220 [196–251] | 1053 [757–1155] | 14.1 [11.6–17.7] |
| Distal part | 10 | 210 [177–246] | 1033 [952–1256] | 16.1 [7.55–17.4] |
| Cardioesophageal cancer | 2 | 204 [164–245] | 668 [530–806] | 8.9 [5.7–12.1] |
| Total gastric involvement | 5 | 233 [233–265] | 937 [532–1266] | 12.0 [10.4–14.0] |

MMP, matrix metalloproteinase; N, number of patients

**Table 3. Мatrix metalloproteinases 2, 9 and galectin-3 levels in the peripheral blood of gastric cancer patients depending on the tumor differentiation grade, ng/mL (median [quartiles])**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Tumor differentiation grade** | **N** | **MMP-2** | **MMP-9** | **Galectin-3** |
| Highly differentiated adenocarcinoma | 4 | 200 [166–240] | 530 [453–806] | 11.3 [8.1–14.2] |
| Moderately differentiated adenocarcinoma | 14 | 219 [188–234] | 935 [750–1212] | 13.8 [11.3–18.1] |
| Low differentiated adenocarcinoma | 42 | 215 [196–265] | 960 [680–1190] | 13.8 [8.8–17.4] |

MMP, matrix metalloproteinase; N, number of patients

**Table 4. Мatrix metalloproteinases 2, 9 and galectin-3 levels in the peripheral blood of gastric cancer patients depending on the TNM criteria, ng/mL (median [quartiles])**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Parameter** | **N** | **MMP-2** | **MMP-9** | **Galectin-3** |
| Invasion depth (T) |
| T1 | 7 | 201 [163–263] | 758 [489–1031] | 17.4 [10.5–20.6] |
| T2 | 4 | 202 [182–209] | 472 [407–806]\* | 12.8 [10.6–14.9] |
| T3 | 10 | 220 [204–272] | 758 [500–1053] | 11.4 [8.5–22.6] |
| T4а | 32 | 213 [188–245] | 944 [754–1131]\* | 11.9 [8.84–16.7] |
| T4b | 6 | 246 [208–265] | 668 [532–1226] | 14.9 [13.6–19.3] |
| Lymphatic node metastases (N) |
| N0 | 27 | 209 [171–234] | 732 [472–1121] | 12.3 [9.10–17.7] |
| N1 | 8 | 189 [181–225] | 933 [668–1161] | 15.7 [9.54–17.4] |
| N2 | 14 | 232 [196–245] | 944 [754–1127] | 11.7 [8.7–15.6] |
| N3a | 9 | 245 [204–356] | 810 [639–1110] | 14.6 [10.7–19.3] |
| Distant metastases (М) |
| М0 | 46 | 209 [171–234] | 732 [472–1121] | 12.9 [9.1–17.2] |
| М+ | 13 | 189 [181–225] | 933 [668–1161] | 14.0 [9.2–17.3] |

MMP, matrix metalloproteinase; N, number of patients

\* p = 0.045; Т2 < Т4а

**Table 5. Мatrix metalloproteinases 2, 9 and galectin-3 levels in the peripheral blood of gastric cancer patients depending on the clinical stage of the disease, ng/mL (median [quartiles])**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Stage** | **N** | **MMP-2** | **MMP-9** | **Galectin-3** |
| IA | 6 | 201 [162–258] | 758 [489–1031] | 16.1 [10.5–20.6] |
| IB | 5 | 202 [181–215] | 472 [407–806] | 13.4 [12.1–16.3] |
| IIA | 5 | 215 [209–259] | 680 [411–1121] | 11.6 [10.5–22.6] |
| IIB | 7 | 201 [169–213] | 1053 [952–1190] | 7.4 [6.3–17.7] |
| IIIA | 4 | 226 [198–254] | 801 [469–997] | 9.54 [8.74–21.0] |
| IIIB | 8 | 235 [232–248] | 859 [712–1086] | 11.6 [10.4–15.6] |
| IIIC | 9 | 246 [203–352] | 793 [530–936] | 14.7 [10.7–16.8] |
| IV | 16 | 202 [184–225] | 960 [682–1226] | 14.1 [10.5–17.3] |

MMP, matrix metalloproteinase; N, number of patients