**Supplementary Table 1. COX regression analysis of independent influencing factors of HBsAg loss in** **CHB children with a high viremia and normal or mildly elevated serum ALT levels**

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Parameters** | **Overall** | **Univariate analysis** | |  | | **Multivariate analysis** | |
| ***HR (95% CI)*** | ***p-Value*** |  | | ***HR (95% CI)*** | ***p-Value*** |
| *n* | 32 |  |  |  | |  |  |
| Age in y | 3.35 [2.77, 5.53] | 0.684 (0.508, 0.922) | 0.013 |  | 0.635 (0.373, 1.080) | | 0.094 |
| ≥1 and <3 | 9 (28.1) |  |  |  |  | |  |
| ≥3 and <7 | 19 (59.4) |  |  |  |  | |  |
| 7–14 | 4 (12.5) |  |  |  |  | |  |
| M:F | 18:14 | 2.051 (0.808, 5.209) | 0.131 |  | |  |  |
| qHBsAg, log10IU/mL | 4.58 [4.07, 4.84] | 0.442 (0.182, 1.077) | 0.072 |  |  | |  |
| HBV DNA, log10IU/mL | 7.99 [7.60, 8.55] | 0.598 (0.302, 1.184) | 0.140 |  |  | |  |
| Neutrophil count, 109/L† (*n* = 24) | 2.73 [1.99, 3.59] | 0.85 (0.569, 1.270) | 0.429 |  |  | |  |
| CD4+ T lymphocyte count, cells/μL† (*n* = 24) | 1466.00 [1084.50, 1929.75] | 1 (0.999, 1.001) | 0.124 |  |  | |  |
| CD8+ T lymphocyte count, cells/μL† (*n* = 24) | 862.50 [594.25, 1219.00] | 1.001 (1, 1.002) | 0.013 |  | 1.001 (0.999, 1.002) | | 0.260 |
| B lymphocyte count, cells/μL† (*n* = 24) | 1008.00 [544.25, 1369.25] | 1.001 (1, 1.002) | 0.003 |  | 1.000 (0.998, 1.002) | | 0.882 |
| NK cell count, cells/μL† (*n* = 24) | 334.50 [196.50, 447.75] | 1 (0.999, 1.002) | 0.804 |  |  | |  |
| HBV genotype, *n* (%) |  |  |  |  |  | |  |
| B genotype | 5 (15.6) | 1 |  |  |  | |  |
| C genotype | 20 (62.5) | 0.608 (0.191, 1.938) | 0.400 |  |  | |  |
| Unknown | 7 (21.9) | 0.398 (0.088, 1.795) | 0.231 |  |  | |  |
| AST, IU/L | 48.00 [44.50, 56.25] | 1.041 (0.998, 1.086) | 0.061 |  |  | |  |
| ALT, IU/L | 43.00 [38.75, 49.00] | 1.055 (0.995, 1.118) | 0.072 |  |  | |  |
| Range (min, max) | (18, 57) |  |  |  |  | |  |
| Patients w/ normal level | 9 (28.1) |  |  |  |  | |  |
| Patients w/ 1–1.5× ULN | 23 (71.9) |  |  |  |  | |  |
| Inflammation grade\* (*n* = 28) |  |  |  |  | |  |  |
| G0 | 2 (7.1) | 1 |  |  |  | |  |
| G1 | 18 (64.3) | 75869092 (0, Infinity) | 0.998 |  |  | |  |
| G2 | 8 (28.6) | 88019142 (0, Infinity) | 0.998 |  |  | |  |
| Fibrosis stage\* (*n* = 28) |  |  |  |  |  | |  |
| S0 | 4 (14.3) | 1 |  |  | |  |  |
| S1 | 15 (53.6) | 3.425 (0.433, 27.076) | 0.243 |  |  | |  |
| S2 | 8 (28.6) | 3.361 (0.392, 28.830) | 0.269 |  |  | |  |
| S3 | 1 (3.6) | 14.668 (0.823, 261.433) | 0.068 |  |  | |  |
| Family history of HBV infection |  |  |  |  |  | |  |
| Mother w/ HBsAg positivity | 26 (81.2) | 1 |  |  |  | |  |
| Both parents w/ HBsAg positivity | 2 (6.2) | 1.163 (0.153, 8.834) | 0.884 |  |  | |  |
| Neither parent w/ HBsAg positivity | 4 (12.5) | 0.768 (0.175, 3.368) | 0.727 |  |  | |  |
| Antiviral treatment |  |  |  |  |  | |  |
| IFN-α monotherapy | 7 (21.9) | 1 |  |  |  | |  |
| IFN-α combined w/ NA | 19 (59.4) | 0.582 (0.202, 1.680) | 0.317 |  |  | |  |
| IFN-α add-on w/ NA | 6 (18.7) | 0.258 (0.050, 1.335) | 0.106 |  |  | |  |

\*Liver histology was performed in 28 of 32 children with CHB with a one-second needle biopsy. †Lymphocyte subsets were tested in 24 of 32 children with CHB. Categorical variables expressed as number (*n*) and percentage (%), and continuous variables as median [interquartile range]. ALT: alanine aminotransferase; AST: Aspartate aminotransferase; CI: confidence interval; CHB, chronic hepatitis B; HBsAg, hepatitis B surface antigen; IFN-α: interferon α; NA: nucleotide analog; qHBsAg: quantitative hepatitis B surface antigen; ULN: upper limits of normal.