

**Table 3.** Univariate regression analysis of factors associated with lumbar spine BMD

|                                   | $\rho$                                    | $p$ -value                                 |                             |
|-----------------------------------|-------------------------------------------|--------------------------------------------|-----------------------------|
| Age (years)                       | -0.084                                    | 0.599                                      |                             |
| Duration of disease (years)       | 0.254                                     | 0.108                                      |                             |
| Body weight (kg)                  | 0.392                                     | 0.011 <sup>*</sup>                         |                             |
| BMI (kg/m <sup>2</sup> )          | 0.481                                     | 0.001 <sup>**</sup>                        |                             |
| Insulin requirement (unit/BW)     | 0.285                                     | 0.057                                      |                             |
| HbA1c (%)                         | 0.319                                     | 0.042 <sup>*</sup>                         |                             |
| eGFR (mL/min/1.73m <sup>2</sup> ) | -0.018                                    | 0.910                                      |                             |
| CGM <sup>‡</sup>                  |                                           |                                            |                             |
| TIR (%)                           | -0.276                                    | 0.089                                      |                             |
| TBR (%)                           | 0.024                                     | 0.884                                      |                             |
| Dietary intake                    |                                           |                                            |                             |
| Energy (kcal/day)                 | -0.037                                    | 0.819                                      |                             |
| Protein (%E)                      | -0.242                                    | 0.128                                      |                             |
| Fat (%E)                          | -0.390                                    | 0.012 <sup>*</sup>                         |                             |
| Carbohydrates (%E)                | 0.283                                     | 0.073                                      |                             |
| Calcium (mg/1000kcal)             | -0.183                                    | 0.252                                      |                             |
| Vitamin D (μg/1000kcal)           | -0.231                                    | 0.146                                      |                             |
|                                   | <b>Low TH BMD group<br/>(<i>n</i>=23)</b> | <b>High LS BMD group<br/>(<i>n</i>=22)</b> | <b><math>p</math>-value</b> |
| Male <i>n</i> (%)                 | 9 (39)                                    | 13 (68)                                    | 0.300                       |
| Current exercise habits           |                                           |                                            |                             |
| Yes <i>n</i> (%)                  | 3 (13)                                    | 5 (23)                                     | 0.396                       |
| Current physical activity         |                                           |                                            |                             |
| Yes <i>n</i> (%)                  | 13 (57)                                   | 12 (55)                                    | 0.903                       |
| Treatment                         |                                           |                                            |                             |
| MDI <i>n</i> (%)                  | 20 (87)                                   | 15 (68)                                    | 0.130                       |
| SGLT2i <i>n</i> (%)               | 2 (9)                                     | 10 (45)                                    | 0.005 <sup>*</sup>          |
| Diabetic complications            |                                           |                                            |                             |
| Neuropathy (+) <i>n</i> (%)       | 0 (0)                                     | 2 (9)                                      | 0.139                       |
| Nephropathy (+) <i>n</i> (%)      | 1 (4)                                     | 2 (9)                                      | 0.138                       |
| Retinopathy (+) <i>n</i> (%)      | 2 (9)                                     | 4 (18)                                     | 0.349                       |