

Table 5 Number of correct diagnoses of glucose tolerance status using multilayer perceptron model

| True status | Predicted status using perceptron | | |
|--------------------------------|-----------------------------------|-----------------|-------|
| | Disease-free | IGT or diabetic | Total |
| | No. | No. | No. |
| <i>Training dataset</i> | | | |
| Disease-free | 2907 | 1766 | 4673 |
| IGT or DM | 165 | 637 | 802 |
| Total | 3072 | 2403 | 5475 |
| <i>Testing dataset</i> | | | |
| Disease-free | 892 | 610 | 1502 |
| IGT or DM | 56 | 189 | 245 |
| Total | 948 | 799 | 1747 |
| <i>Overall</i> | | | |
| Disease-free | 3799 | 2376 | 6175 |
| IGT or DM | 221 | 826 | 1047 |
| Total | 4020 | 3202 | 7222 |

IGT = impaired glucose tolerance; DM = diabetes mellitus.