

**Table 3** Description of methods' accuracy based on results of Table 2

Index (%)	k-means clustering	SOM
Sensitivity	64.9 <sup>a</sup>	62.4
Specificity	67.0 <sup>b</sup>	80.6
Accuracy	66.1 <sup>c</sup>	73.1
PPV	57.8 <sup>d</sup>	69.3
NPV	73.2 <sup>e</sup>	75.4

$$^a \frac{290}{290+157} \times 100$$

$$^b \frac{429}{429+211} \times 100$$

$$^c \frac{290+429}{290+157+211+429} \times 100$$

$$^d PPV = \frac{\text{sensitivity} \times \text{prevalance}}{\text{sensitivity} \times \text{prevalance} + (1-\text{specificity}) \times (1-\text{prevalance})} \quad (\text{prevalance of unhealthy individuals} = 0.411)$$

$$^e NPV = \frac{\text{sensitivity} \times (1-\text{prevalance})}{(1-\text{sensitivity}) \times \text{prevalance} + \text{specificity} \times (1-\text{prevalance})} \quad NPV = \text{negative predictive value}; PPV = \text{positive predictive value}; SOM = \text{self-organized map}.$$