Table 1 Mean scores on knowledge and constructs of the health belief model (HBM) in the 3 groups of female students (*n* = 60 each group) before and after the educational intervention

Construct of HBM/intervention group	Before intervention Mean (SD)	After intervention Mean (SD)	*P*-value[a]
Knowledge			
Peer-led	15.9 (4.4)	33.7 (1.9)	< 0.001
Teacher-led	14.8 (4.5)	22.3 (6.8)	< 0.001
Control	15.6 (5.0)	15.8 (4.9)	1.0
P-value[b]	0.212	< 0.001	
Perceived susceptibility			
Peer-led	20.1 (4.5)	29.3 (2.7)	< 0.001
Teacher-led	22.5 (4.1)	23.5 (5.7)	< 0.081
Control	21.1 (4.0)	21.8 (4.2)	1.0
P-value[b]	0.11	< 0.001	
Perceived severity			
Peer-led	12.9 (7.5)	18.4 (2.1)	< 0.001
Teacher-led	12.5 (2.9)	14.9 (6.8)	< 0.001
Control	11.8 (2.8)	12.1 (2.6)	0.285
P-value[b]	0.669	< 0.001	
Perceived benefits			
Peer-led	9.1 (2.6)	10.0 (2.5)	0.021
Teacher-led	8.7 (2.4)	9.4 (2.0)	0.066
Control	9.4 (2.0)	9.5 (1.9)	0.317
P-value[b]	0.264	0.024	
Perceived barriers			
Peer-led	9.0 (3.4)	14.4 (3.1)	< 0.001
Teacher-led	9.6 (3.5)	11.6 (3.5)	< 0.001
Control	9.9 (3.2)	9.7 (3.0)	0.075
P-value[b]	0.209	< 0.001	

[a]*Wilcoxon test;* [b]*Kruskal–Wallis test.*
SD = standard deviation.