

Table 1) Comparison between Mean Scores of the Items in the Questionnaire of Students' Attitudes to the Basic Science Courses in the Students of Physiotherapy in Rehabilitation Departments of Iran and Tehran Medical Schools based on Gender and Education Level

Item	Female	Male	P Value
1. Without knowing the biological processes of the disease, a therapist can effectively treat it.			
BA	2.04±1.11	2.77±0.95	0.004
MA	1.73±0.79	2.71±1.10	0.001
All the Students	1.95±1.03	2.74±1.00	0.0001
P Value	0.169	0.842	-
2. The majority of basic science researches have become away from the clinical domains and their importance for the therapist has been faded.			
BA	3.58±0.95	3.54±0.76	0.851
MA	3.53±0.97	3.71±1.05	0.573
All the Students	3.56±0.95	3.60±0.88	0.812
P Value	0.833	0.547	-
3. In the recovery process, psychological factors are as important as physical factors.			
BA	4.50±0.58	4.27±0.87	0.220
MA	4.43±0.57	4.12±0.99	0.171
All the Students	4.47±0.58	4.21±0.91	0.077
P Value	0.597	0.601	-
4. The most important feature of a good therapist is the dominance over the biological mechanisms.			
BA	3.85±0.90	3.69±0.93	0.466
MA	3.79±0.77	3.00±1.10	0.005
All the Students	3.83±0.86	3.42±1.03	0.025
P Value	0.787	0.029	-
5. Application of the basic sciences to clinical treatment is a skill that must be strengthened in the early stages of clinical education.			
BA	3.94±0.84	3.73±0.92	0.280
MA	4.23±0.56	3.94±0.66	0.117
All the Students	4.03±0.78	3.81±0.82	0.136
P Value	0.087	0.42	-

6. Firstly, we need to learn the contents in basic sciences, and then learn how to apply them in the future use of the clinical treatment.			
BA	3.93±0.92	3.64±0.95	0.182
MA	4.10±0.80	3.94±1.03	0.560
All the Students	3.98±0.89	3.76±0.98	0.196
P Value	0.383	0.336	-
7. The students should learn the general concepts of the basic sciences and the scientific information does not depend on the knowledge of all the details.			
BA	3.47±1.10	3.31±1.01	0.506
MA	2.93±1.01	3.82±1.33	0.013
All the Students	3.31±1.10	3.51±1.20	0.332
P Value	0.023	0.157	-
8. My future as a therapist depends on the information and knowledge that I gain from the basic sciences.			
BA	3.65±1.02	3.23±0.95	0.070
MA	3.60±0.89	3.00±1.00	0.040
All the Students	3.64±0.98	3.14±0.97	0.006
P Value	0.806	0.45	-
9. Faculty members raise the students' curiosity via teaching the basic sciences.			
BA	3.13±1.09	3.04±1.04	0.722
MA	3.10±1.12	2.81±0.91	0.384
All the Students	3.12±1.10	2.95±0.99	0.397
P Value	0.912	0.478	-

Table 2) Comparison between the Mean Scores of Attitude to the Basic Sciences and the Subscales Including Importance and Effectiveness in Students in Different Semesters based on their Gender and Level of Education

Index		Female	Male	P Value
Students` Attitudes to the Basic Sciences				
First Semester	BA	(n= 26) 33.04±4.51	(n= 4) 34.33±3.21	0.637
	MA	(n= 18) 33.59±3.66	(n= 14) 30.00±3.82	0.013
	P Value	0.680	0.089	-
Third Semester	BA	(n= 25) 31.52±3.12	(n= 9) 31.22±2.39	0.797
	MA	(n= 12) 31.67±3.17	(n= 3) 31.50±0.71	0.944
	P Value	0.898	0.879	-
Fifth Semester	BA	(n= 16) 33.75±4.25	(n= 10) 28.40±4.57	0.006
	MA	No Sample	No Sample	-
	P Value	-	-	-
Seventh Semester	BA	(n= 6) 36.40±1.52	(n= 3) 31.67±1.15	0.004
	MA	No Sample	No Sample	-
	P Value	-	-	-
Total	BA	(n= 73) 32.94±4.02	(n= 26) 30.52±3.84	0.011
	MA	(n= 30) 32.79±3.54	(n= 17) 30.19±3.60	0.023
	P Value	0.863	0.783	-
The "Importance" Subscale				
First Semester	BA	(n= 26) 19.00±2.67	(n= 4) 18.66±1.15	0.834
	MA	(n= 18) 19.59±2.06	(n= 14) 16.47±2.69	0.001
	P Value	0.446	0.192	-
Third Semester	BA	(n= 25) 17.83±2.74	(n= 9) 18.00±1.88	0.857
	MA	(n= 12) 18.50±1.78	(n= 3) 18.00±0.00	0.352
	P Value	0.448	1.000	-

Fifth Semester	BA	(n= 16) 19.25±2.35	(n= 10) 16.00±3.20	0.006
	MA	No Sample	No Sample	-
	P Value	-	-	-
Seventh Semester	BA	(n= 6) 20.00±0.71	(n= 3) 18.67±0.58	0.034
	MA	No Sample	No Sample	-
	P Value	-	-	-
Total	BA	(n= 71) 18.74±2.58	(n= 26) 17.38±2.53	0.024
	MA	(n= 30) 19.14±1.99	(n= 17) 16.65±2.57	0.001
	P Value	0.463	0.359	-

The "Effectiveness" Subscale

First Semester	BA	(n= 26) 13.92±2.56	(n= 4) 15.67±2.08	0.269
	MA	(n= 18) 14.11±2.05	(n= 14) 13.57±1.94	0.457
	P Value	0.795	0.115	-
Third Semester	BA	(n= 25) 13.76±2.05	(n= 9) 13.44±1.13	0.666
	MA	(n= 12) 13.17±2.25	(n= 3) 13.50±0.71	0.844
	P Value	0.429	0.950	-
Fifth Semester	BA	(n= 16) 14.50±2.76	(n= 10) 12.40±1.90	0.046
	MA	No Sample	No Sample	-
	P Value	-	-	-
Seventh Semester	BA	(n= 6) 16.40±1.52	(n= 3) 13.00±1.73	0.026
	MA	No Sample	No Sample	-
	P Value	-	-	-
Total	BA	(n= 71) 14.17±2.43	(n= 26) 13.24±1.85	0.085
	MA	(n= 30) 13.73±2.15	(n= 17) 13.56±1.82	0.788
	P Value	0.397	0.588	-