

The purposes of this research were to study and compare problems of coaches' sport science application in the 18th physical education college sport competitions. The subjects were 210 both male and female coaches participated in this competitions from the 17 colleges and 23 individual events. The questionnaires designed by the researcher were investigated problems of five areas of sport science application: Sport physiology, sport medicine, sport psychology, sport nutrition and sport management respectively. Data were then analyzed by using percentage, arithmetic means, standard deviations, t-test and F-test.

The results of the study were as follows:

1. Problems of coaches in sport science application were found at high level in four areas respectively: Sport physiology = 2.64, sport medicine = 2.61, sport nutrition = 2.80 and sport management = 2.62 with the exception of sport psychology at 2.47 indicated low level.

2. There were no significant difference at .05 in the areas of sport medicine, sport psychology and sport nutrition but areas of sport physiology and sport management were reported significant differences at .05 level when comparing problems of coaches using sport science application of 17 institutions.

3. When comparing six types of sport group namely: Racket sport, team sport, accuracy sport, speed sport, combative sport and self-testing sport, there were no significant differences at .05 level in four areas: Sport physiology, sport psychology, sport nutrition and sport management with the exception of sport medicine.

4. When comparing 23 individual events, there were no significant differences at .05 level in all areas.