UNIVERSITI TEKNOLOGI MARA

ANALYSIS OF GOAL SCORING PATTERNS AND PASSING SEQUENCES BETWEEN WINNING AND LOSING TEAMS IN UEFA-EURO 2012

MUHAMAD SAFIQ BIN SAIFUL ANNUR

Dissertation submitted in partial fulfillment of the requirements for the degree of

Master of Sports Science

Faculty of Sports Science and Recreation

June 2013

Acknowledgement

First of all, I would like to thanks Allah the Al-Mighty who has given me the strength, courage, and motivation to accomplish this pieces of work. Besides, I would like to thanks and gratitude to my supervisor, Mr Norasrudin Sulaiman in his guidance and supports throughout in finishing this research paper. Without his guidance, patience and understanding, I would never have done these pieces of work.

I also would like to thanks to all lecturer of Faculty of Sport Science and Recreation, UiTM Shah Alam for their time in giving me the explanations and guidance in finishing this research. Furthermore, my deepest thanks to Mr. Redzuan Ponirin and Ms Liza Noordin of the Sportstec South East Asia (SEA) SDN. BHD., who gave the permissions to use all of the facilities and equipment in analyzing the match and also helping me in the learning process of the match analysis.

Last but not least, thanks to my lovely family especially my mother, Puan Nor Haizon Binti Md Nor and my father, Saiful Annur Bin Abd Talib who always gave me all their supports in any situations. Not forgotten to all postgraduate students of Sport Science Faculty, UiTM Shah Alam who have helped me in finishing this research. I appreciated all of the help towards the completion of this study.

Abstract

Background and purpose of study: The objective of current study is to investigate the differences of winning and losing teams in terms of goal scoring and passing sequences.

Methods: Total of 31 matches from UEFA-EURO 2012 were analyzed and 5 matches were excluded from analysis due to matches end up drawn. There are three groups of variable used in the study, which are the goal scoring variable, passing sequences variable and other selected performance indicators. Data were analyzed using Mann Whitney-U Test with significant value set at p < 0.05.

Results: Current study found the timing of goal scored was significantly higher for winning team at 1st half (Z=-3.595, p < 0.05) and 2nd half (Z=-3.277, p < 0.05). The scoring frequency was also found to be increase as time progressed and the last 15 minutes of the game was the time interval the most goals scored. The indicators that were significantly differences between winning and losing team were the goal scored (Z = -4.894, p < 0.05), the head (Z = -2.549, p < 0.05), the right foot (Z = -3.546, p < 0.05)0.05), corner (Z = -2.307, p < 0.05), open play (Z = -5.022, p < 0.05), inside the penalty box (Z = -5.394, p < 0.05), attackers (Z = -3.280, p < 0.05) and also the midfielders (Z=-3.823, p < 0.05). Regarding the passing sequences, there are significant difference between both teams in short passing sequences (Z=-.4.899, p < 0.05) and long passing (Z=-.1.958, p < 0.05). The intercept (Z= -2.853, p < 0.05), corner (Z= -2.307, p < 0.05), poor passing (Z = -2.137, p < 0.05), poor control (Z = -3.026, p < 0.05) 0.05) and the goalkeeper distribution (Z=-2.329, p < 0.05) resulted in significant difference in how the possession was gained and the possession was significantly gained at 1st quarter (Z = -2.284, p < 0.05), 3rd quarter (Z = -2.941, p < 0.05), and 4th quarter (Z=-3.253, p < 0.05). The winning teams preferred to have 2 touches or less and they preferred to use driven shot, inside shot and volley shot in scoring goal (p< 0.05). Regarding the directions of the shot, more goals were scored at lower sections of the goals, either left or right.

Conclusion: It can be concluded that the winning teams have significant higher performance indicators in goal scoring compared to losing teams. The data gathered in present study can be used by the coaches to construct detailed training program based on their objectives.

Table of content

Title	e	Pages
Decl	aration	i
Acknowledgement		ii
Abstract		iii
Tabl	e of content	iv
List	of tables	v
List	of figures	vi
List of appendices		vii
Cha	pter 1: Introduction	
1.1	Background of study	1
1.2	Problem statement	4
1.3	Objectives	5
1.4	Hypotheses	5
1.5	Delimitations	7
1.6	Limitations	7
1.7	Significance of study	7
1.8	Definitions of terms	8
Cha	pter 2: Literature review	
2.1	Introduction	9
2.2	Feedback	10
2.3	Reliability and Validity of Data (Feedback)	13
2.4	Performance analysis	14

	Analysis of Goal Scoring Patterns and Passing Sequence	es v
2.5	Hand notations and computer notations	15
2.6	Notational analysis in soccer	17
2.7	Method from previous studies	19
2.8	Conclusions	20
Chapt	ter 3: Methodology	
3.1	Introduction	21
3.2	Subjects	21
3.3	Instruments	21
3.4	Research design	22
3.5	Procedure	22
3.6	Data analysis	31
Chapt	er 4: Results	
4.1	Reliability	32
4.2	Intra-operator and inter-operator reliability testing	32
4.3	Normality of data	37
4.4	Overall results	38
4.5	Comparison between Winning and Losing teams	40