

## Impact of Substitutions on the Outcome of the Matches during the FIFA World Cup 2010

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### ABSTRACT

*FIFA World Cup is always used as a reference point for the growth, development, trends and direction of the game, for those interested in the game. Study was taken up to know the effect of substitution on the game. The FIFA World Cup was held in South Africa from 11<sup>th</sup> June to 11<sup>th</sup> July 2010 in which 32 teams, from different parts of world, participated. Study was taken up to know the effect of substitution on the game and data revealed that teams availed 97.12% substitutions from the 46<sup>th</sup> minute of play to 90+ minutes of play. The teams were able to score 60.99% of goals during this period of time. In certain situations, the effect of substitution was so good that the substitutes scored the goals within a few minutes after their entry into the field of play. Data was collected on substitutions and goals scored by teams, by dividing the whole duration of match in small phase of time of 15 minutes each. Scoring goal in a match is a wonderful experience for a player; that too, when he is given a chance at the crucial juncture of the match. Availing substitute is one of the tactical skills of a coach, if used properly. Coaches, who select the players carefully and keep the reserve players at par with the players of first eleven, help their team in winning the match, by utilizing them at the appropriate time.*

*The Author was stimulated while going through the FIFA World Cup report on the parameter substitution, because it generally remains unknown among Football lovers of the world. It was hypothesized that substitutions make a dent on the outcome of match, in the desirable direction of the coach and the results confirmed the hypothesis.*

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## INTRODUCTION

### Objectives of the Study

The matches during the FIFA World Cup 2010 prove to be the battle of wits as teams formulate their strategies and apply their tactical ideas to prove their supremacy. The objective of the study was to find out 'Impact of Substitutions on the Outcome of the Matches During the FIFA World Cup 2010', as availed by the different teams, in scoring the goals, in the different phases of the match.

In Football, innovations in various aspects of the game recorded tremendous boost in the sport. The results of this study could help in the development of strategy of the game of Football.

Generally coaches avail the substitutions for the following reasons :

- a) To give rest to their good players
- b) To protect the player who was shown yellow card during the match
- c) To give exposure to the new players
- d) In case of injuries to the players

The purpose of the study was to enlighten the Coaches, Physical Education Teachers, and the scientists about the optimum utilization of the reserve players, in order to secure the best result for their teams.

### Significance of the Study

This paper is important for those involved in the field of coaching to know the proper use of the reserve players for securing better result for their teams.

## METHODOLOGY

To find out the effect of the substitution on the outcome of match, the technical reports of the different matches of FIFA World Cup 2010, held at South Africa from 11 June to 11 July 2010 were analyzed.

### Limitations the Study

1. Report does not indicate the status of a match at the time of substitutions.
2. Report does not indicate the reason for the substitutions.
3. Report does not indicate the coach plan of the match.

### Delimitation of the Study

Author delimited his study only on the phases with an interval of 15 minutes, to record the substitution and the scoring of goals, in effecting the result of match. The substitutions availed by the different teams and goals scored were analyzed by dividing the entire duration of the match into small phases of time i.e. 1 to 15 minutes, 16 to 30<sup>th</sup> minute, 31<sup>st</sup> to 45<sup>th</sup> minute, 46<sup>th</sup> to 60<sup>th</sup> minute, 61<sup>st</sup> to 75<sup>th</sup> minute, 76<sup>th</sup> to 90+ minutes. To record the substitutions availed and goals scored, a Table was prepared. Table 1 shows the different phases of the duration of match, availed substitutions, goals scored, along with their percentage.

**Table 1: Percentage of the goal scored and the substitution availed**

Phase No.	Duration of the Match( phases)	Substitution availed	% of substitutions	Goals Scored	% of Goals scored
1	00-15 minutes	00	0%	10	07.09%
2	16-30 minutes	01	00.28%	26	18.43%
3	31-45 minutes	09	02.56%	19	13.47%
4	46-60 minutes	71	20.22%	24	17.02%
5	61-75 minutes	128	36.46%	26	18.43%
6	76-90 minutes	118	33.61%	28	19.85%
7	90 + minutes	024	06.83%	08	05.67%
	Total	351		141	

**Table-2: Substitutions availed and goals scored during the 4<sup>th</sup>, 5<sup>th</sup>, 6<sup>th</sup> and 7<sup>th</sup> phases of play along with their percentage**

Phase No.	Duration of the Match (phases)	Substitution availed	% of substitutions	Goals Scored	% of Goals scored
4	45-60 Minute	71	20.22%	24	17.07%
5	61-75 Minutes	128	36.46%	26	18.43%
6	76-90 Minutes	118	33.61%	28	19.85%
7	90+ Minutes	024	06.83%	08	05.67%
	Total	341/351	97.1%	86	61.02%

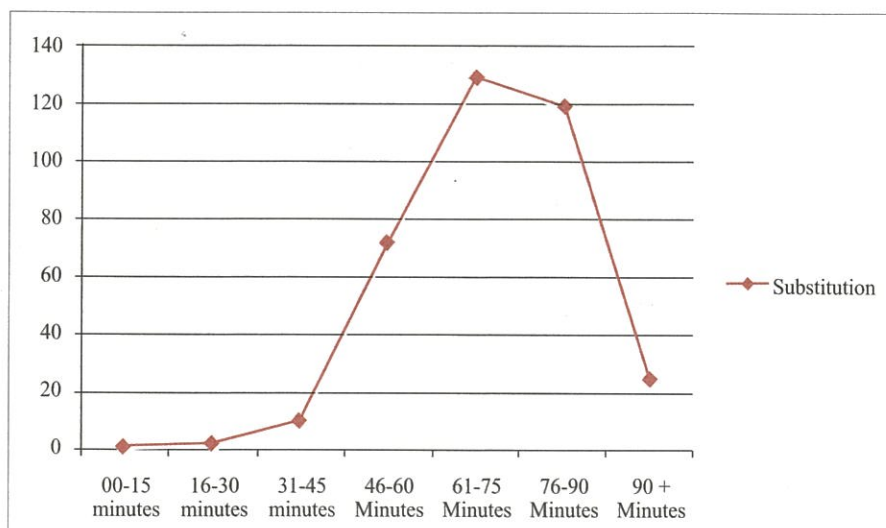
From Table 2 it can be observed that 97.12% of the substitutes were availed and 60.99% of the goals were scored

during the phases immediately after the interval i.e. 46<sup>th</sup> minute of play to 90+ minutes of play.

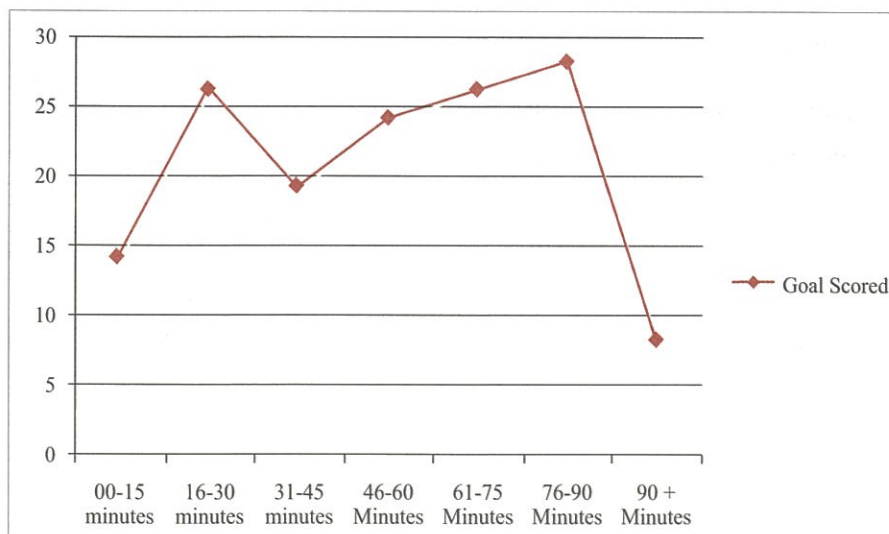


Figure 1 shows the graphical representation of the substitutes availed by different teams during the match and figure 2 gives the graphical representation of the

goals scored by the players during different phases of the game. Table 3 depicts the time taken by the substitutes in scoring the goal after their entry into the field of play.



**Fig.-1 : Substitutes availed by different teams during the match.**



**Fig. 2 : Goals scored by the players during different phases of the game in FIFA World Cup 2010**

**Table-3 : Time taken by the substitutes in scoring the goal after their entry into the field.**

Sr. No.	Match No.	Played between		Name of the Substitute	Minute of the Player's entry	Minute of the Goal scored
1	47	Chile	Spain	Rodrigo Millar	46 <sup>th</sup> minute	47 <sup>th</sup> Minute
2	02	Germany	Australi	Cacau	68 <sup>th</sup> minute	70 <sup>th</sup> minute
3	41	Slovakia	Italy	Kamil Kopunek	87 <sup>th</sup> minute	89 <sup>th</sup> minute
4	30	Portugal	Korea DPR	Liedson	77 <sup>th</sup> minute	81 <sup>st</sup> minute
5	40	Australia	Serbia	Brett Holman	66 <sup>th</sup> minute	73 <sup>rd</sup> minute
6	18	France	Mexico	Javier Hernandez	55 <sup>th</sup> minute	64 <sup>th</sup> minute
7	36	Greece	Argenti	Martin Palermo	80 <sup>th</sup> minute	89 <sup>th</sup> minute
8	43	Denmark	Japan	Shinji Okazaki	74 <sup>th</sup> minute	87 <sup>th</sup> minute
9	36	Greece	Argenti	Marko Pantelic	67 <sup>th</sup> minute	84 <sup>th</sup> minute
10	46	Korea DPR	Cote D Ivoire	Salomon Kalou	64 <sup>th</sup> minute	82 <sup>nd</sup> minute
11	44	Cameron	Netherla	Klaas J Huntelar	59 <sup>th</sup> minute	83 <sup>rd</sup> minute
12	34	France	S.Africa	Florent Malouda	46 <sup>th</sup> minute	70 <sup>th</sup> minute
13	31	Chile	SUI	Mark Gonzalez	46 <sup>th</sup> minute	75 <sup>th</sup> minute
14	41	Slovakia	Italy	Fabio Quagliarella	46 <sup>th</sup> minute	90+2 minute

## CONCLUSION

It may be concluded from the present study that the teams which availed the substitutions from 46<sup>th</sup> minute of play to 90+minutes of play succeeded in scoring 60.99 % of goals, during FIFA World Cup 2010. At certain situations the impact of substitution was so good that the players scored goals within few minutes after their entry in the field of play.

The fresh substitutions were able to help their teams by scoring the goals, lending

support in helping their team mates in scoring the goals, as it is a wellknown fact that achieving high performance, in a given sport, is the product of various factors, i.e., physical, physiological, psychological, technical and tactical etc.

This study will provide opportunity to the young scientists, Physical Education Teachers and the Coaches to take up research in the area kept open by the author of this paper.

## REFERENCES

www.fifa.com.

Technical report of World cup 2010 by FIFA

An over view on FIFA World Cup 2010