IRRATIONAL BELIEFS AS MEDIATOR IN THE RELATIONSHIP BETWEEN ACTIVATING EVENT AND STRESS AMONG SECONDARY SCHOOL TEACHERS

KHOO HUI XIAN

UNIVERSITI TEKNOLOGI MALAYSIA
IRRATIONAL BELIEFS AS MEDIATOR IN THE RELATIONSHIP BETWEEN ACTIVATING EVENT AND STRESS AMONG SECONDARY SCHOOL TEACHERS

KHOO HUI XIAN

A Dissertation Submitted in Partial Fulfilment of the Requirement for the Award of the Degree of Master of Science (Human Resource Development)

The Faculty of Management
Universiti Teknologi Malaysia

JULY 2015
DEDICATION

I would like to dedicate this thesis to my beloved friends and family.
ACKNOWLEDGEMENT

First, I would like to express my gratitude and appreciation to my warmhearted supervisor, who is also my mentor, Dr. Mastura Binti Mahfar for always ready to share, guide, and encourage me during the completion of this dissertation.

My gratitude also goes to the respondents (teachers of the selected secondary schools) and all parties that involved directly or indirectly in this thesis for their corporation and support in succeeding this study.

Lastly, I would like to take this opportunity to express my gratitude to my beloved family especially my parents for encouraging me unconditionally and my friends who had helped me and fully support me during the ups and downs along the completion of this dissertation. Finally, I would like to share my entire honor with all of you.
ABSTRACT

The main purpose of this study is to identify to what extent irrational beliefs act as mediator in the relationship between activating event and stress among secondary school teachers. The research objectives of this study are to identify the different levels of irrational beliefs (B) and also level of stress among secondary school teachers, to identify the effect of activating event (A) on stress (C), the effect of activating event (A) on irrational beliefs (B), the effect of irrational beliefs (B) on stress (C) and also to identify irrational beliefs (B) as mediator in the relationship between activating event (A) and stress (C) among secondary school teachers. A total of 250 teachers from five secondary schools were selected as the respondents for this study. The measurements employed for the data collection were Soal Selidik Sistem Kepercayaan Guru (SSKG) and Soal Selidik Peristiwa dan Tekanan Guru (SPTG). The data were analyzed using descriptive and inferential analyses. The Rasch analysis was employed in the pilot test of the study. The analyses comprised of normality, simple regression and hierarchical multiple regression. The results of hierarchical multiple regression were verify by applying the Sobel Test. The findings of the study indicate that activating event (A) act as significant predictor of stress (C), activating event (A) as significant predictor of irrational beliefs (B) and irrational beliefs (B) as significant predictor of teacher stress (C). The findings of the study reveal irrational beliefs to be partial mediator in the relationship between activating event and stress. The ABC model of the REBT approach was found to be suitable for studying secondary school teachers undergoing irrational beliefs and stress. The awareness of teachers regarding irrational beliefs must be enhanced so that more can be done to change irrational beliefs into rational beliefs and hence reduce the stress level perceived by secondary school teachers.
ABSTRAK

# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>CHAPTER</th>
<th>TITLE</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>TITLE PAGE</td>
<td>i</td>
<td></td>
</tr>
<tr>
<td>DECLARATION</td>
<td>ii</td>
<td></td>
</tr>
<tr>
<td>DEDICATION</td>
<td>iii</td>
<td></td>
</tr>
<tr>
<td>ACKNOWLEDGEMENTS</td>
<td>iv</td>
<td></td>
</tr>
<tr>
<td>ABSTRACT</td>
<td>v</td>
<td></td>
</tr>
<tr>
<td>ABSTRAK</td>
<td>vi</td>
<td></td>
</tr>
<tr>
<td>TABLE OF CONTENTS</td>
<td>vii</td>
<td></td>
</tr>
<tr>
<td>LIST OF TABLES</td>
<td>xii</td>
<td></td>
</tr>
<tr>
<td>LIST OF FIGURES</td>
<td>xiii</td>
<td></td>
</tr>
<tr>
<td>LIST OF ABBREVIATIONS</td>
<td>xiv</td>
<td></td>
</tr>
<tr>
<td>LIST OF SYMBOLS</td>
<td>xv</td>
<td></td>
</tr>
<tr>
<td>LIST OF APPENDICES</td>
<td>xvi</td>
<td></td>
</tr>
</tbody>
</table>

1 INTRODUCTION  
1.1 Introduction 1  
1.2 Research Background 2  
1.3 Statement of Problems 6  
1.4 Purpose of Study 9  
1.5 Research Questions 9  
1.6 Research Objectives 10  
1.7 Hypotheses of the Study 10  
1.8 Significance of the Study 11  
1.9 Scope of Study 13  
1.10 Conceptual and Operational Definitions 14
1.10.1 Activating Event (A)  14
1.10.2 Irrational Beliefs (B)  15
1.10.3 Stress (C)  16
1.11 Summary  17

2 LITERATURE REVIEW  18
2.1 Introduction  18
2.2 Theory of Rational Emotional Behavior Therapy (REBT)  19
   2.2.1 Model ABC  21
      2.2.1.1 Activating Event (A)  24
      2.2.1.2 Irrational Beliefs (B)  25
      2.2.1.3 Consequences (C)  29
2.3 Transactional Model of Stress and Coping  31
2.4 Criticalness on the Theories/Model: REBT and Transactional Model of Stress and Coping  33
2.5 Previous Studies  37
   2.5.1 Previous Studies on Teachers’ Irrational Beliefs  37
   2.5.2 Previous Studies on Teachers’ Stress  38
   2.5.3 Previous Studies on Activating Event (A) and Stress (C)  40
   2.5.4 Previous Studies on Activating Event (A) and Irrational Beliefs (B)  44
   2.5.5 Previous Studies on Irrational Beliefs (B) and Stress (C)  47
   2.5.6 Previous Studies on Activating Event (A), Irrational Beliefs (B) and Stress (C)  54
2.6 Summary of Previous Studies  60
2.7 Framework of the Study  61
2.8 Conclusion  63

3 METHODOLOGY  64
3.1 Introduction  64
3.2 Research Design  64
3.3 Location of Study  66
3.4 Population and Sampling of Study  66
3.5 Data Collection  68
4 RESEARCH FINDINGS AND DATA ANALYSIS

4.1 Introduction 98
4.2 Return and Usable Rate of Questionnaire 99
4.3 Descriptive Analysis of Respondents’ Demographic 100
  4.3.1 Distribution of Respondents According to Gender 101
  4.3.2 Distribution of Respondents According to Age 101
  4.3.3 Distribution of Respondents According to Races 102
  4.3.4 Distribution of Respondents According to Academic Qualification 102
  4.3.5 Distribution of Respondents According to Teaching Experience 103
4.4 The Level of Irrational Beliefs (B) among Secondary School Teachers 104
4.5 The Level of Stress (C) among Secondary School Teachers 105
4.6 Mediation Analysis and Hierarchical Multiple Regression 106
  4.6.1 Step 1: Identify the Relationship between Activating Event (A) and Stress (C) 107
  4.6.2 Step 2: Identify the Relationship between Activating Event (A) and Irrational Beliefs (B) 108
4.6.3 Step 3: Identify the Relationship between Irrational Beliefs (B) and Stress (C)

4.6.4 Step 4: Identify Irrational Beliefs (B) as Mediator in the Relationship between Activating Event (A) and Stress (C)

4.7 Analysis of the Sobel Test

4.8 Summary of Analysis and Findings of Study

5 DISCUSSION

5.1 Introduction

5.2 Summary of Research Findings

5.2.1 Summary of Demographic Distribution of Respondents

5.2.2 Objective 1: Identify the Level of Irrational Beliefs (B) among Secondary School Teachers in Skudai Zone

5.2.3 Objective 2: Level of Stress (C) among Secondary School Teachers

5.2.4 Objective 3: Effect of Activating Event (A) on Stress (C) among Secondary School Teachers

5.2.5 Objective 4: Effect of Activating Event (A) on Irrational Beliefs (B) among Secondary School Teachers

5.2.6 Objective 5: Effect of Irrational Beliefs (B) on Stress (C) among Secondary School Teachers

5.2.7 Objective 6: Effect of Irrational Beliefs (B) as Mediator in the Relationship between Activating Event (A) and Stress (C) among Secondary School Teachers

5.3 Limitations

5.4 Recommendation

5.4.1 Recommendations for Johor Education Department (Jabatan Pendidikan Johor)

5.4.2 Recommendations for Future Research

5.5 Research Conclusion
# LIST OF TABLES

<table>
<thead>
<tr>
<th>TABLE NO.</th>
<th>TITLE</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.1</td>
<td>Details of Teachers in Selected School of Study</td>
<td>67</td>
</tr>
<tr>
<td>3.2</td>
<td>Five Dimensions of Questionnaire of Teachers’ Irrational Beliefs</td>
<td>71</td>
</tr>
<tr>
<td>3.3</td>
<td>QTIB Based on Irrational Beliefs’ Dimension</td>
<td>71</td>
</tr>
<tr>
<td>3.4</td>
<td>Five Dimensions of Questionnaire of Teachers’ Activating Event and Stress</td>
<td>73</td>
</tr>
<tr>
<td>3.5</td>
<td>QTAES Based on Activating Events</td>
<td>73</td>
</tr>
<tr>
<td>3.6</td>
<td>Interpretation for Coefficient, $\alpha$</td>
<td>77</td>
</tr>
<tr>
<td>3.7</td>
<td>Reliability of Instrument of Each Variable Using Rasch Analysis</td>
<td>78</td>
</tr>
<tr>
<td>3.8</td>
<td>Descriptive Statistic</td>
<td>80</td>
</tr>
<tr>
<td>3.9</td>
<td>Test of Normality</td>
<td>86</td>
</tr>
<tr>
<td>3.10</td>
<td>Levels of Irrational Beliefs based on Mean Score</td>
<td>89</td>
</tr>
<tr>
<td>3.11</td>
<td>Levels of Stress and Activating Event based on Mean Score</td>
<td>90</td>
</tr>
<tr>
<td>3.12</td>
<td>Statistical Tools</td>
<td>92</td>
</tr>
<tr>
<td>4.1</td>
<td>Return and Usable Rate of Questionnaire from Selected Schools</td>
<td>99</td>
</tr>
<tr>
<td>4.2</td>
<td>Summary of Findings on Respondents’ Demographic</td>
<td>100</td>
</tr>
<tr>
<td>4.3</td>
<td>Distribution of Respondents According Gender</td>
<td>101</td>
</tr>
<tr>
<td>4.4</td>
<td>Distribution of Respondents According Age</td>
<td>101</td>
</tr>
<tr>
<td>4.5</td>
<td>Distribution of Respondents According Races</td>
<td>102</td>
</tr>
<tr>
<td>4.6</td>
<td>Distribution of Respondents According Academic Qualification</td>
<td>103</td>
</tr>
<tr>
<td>4.7</td>
<td>Distribution of Respondents According Teaching Experience</td>
<td>103</td>
</tr>
<tr>
<td>4.8</td>
<td>Level of Irrational Beliefs and each Dimension among Respondents</td>
<td>105</td>
</tr>
<tr>
<td>4.9</td>
<td>Distribution of Stress Level among Secondary School Teachers</td>
<td>106</td>
</tr>
<tr>
<td>4.10</td>
<td>Impact of Activating Event (A) on Stress (C)</td>
<td>107</td>
</tr>
<tr>
<td>4.11</td>
<td>Impact of Activating Event (A) on Irrational Beliefs (B)</td>
<td>108</td>
</tr>
</tbody>
</table>
4.12 Impact of Irrational Beliefs (B) on Stress (C) 109
4.13 The Mediating Impact of Irrational Beliefs (B) as mediator in the relationship between Activating Event (A) and Stress (C) 111
4.14 Result of Sobel Test Analysis 114
4.15 Summary of Research Findings According Objectives 116
### LIST OF FIGURES

<table>
<thead>
<tr>
<th>FIGURE NO.</th>
<th>TITLE</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.1</td>
<td>ABC Model based on REBT approach</td>
<td>22</td>
</tr>
<tr>
<td>2.2</td>
<td>Framework of the Study</td>
<td>61</td>
</tr>
<tr>
<td>3.1</td>
<td>Normality of Activating Event by using Histogram</td>
<td>81</td>
</tr>
<tr>
<td>3.2</td>
<td>Normality of Irrational Beliefs by using Histogram</td>
<td>81</td>
</tr>
<tr>
<td>3.3</td>
<td>Normality of Stress by using Histogram</td>
<td>81</td>
</tr>
<tr>
<td>3.4</td>
<td>Normality of Activating Event by using Normal Probability Plot Regression Standardized Residual</td>
<td>82</td>
</tr>
<tr>
<td>3.5</td>
<td>Normality of Irrational Beliefs by using Normal Probability Plot Regression Standardized Residual</td>
<td>82</td>
</tr>
<tr>
<td>3.6</td>
<td>Normality of Stress by using Normal Probability Plot Regression Standardized Residual</td>
<td>83</td>
</tr>
<tr>
<td>3.7</td>
<td>Normality of Activating Event using Boxplot</td>
<td>84</td>
</tr>
<tr>
<td>3.8</td>
<td>Normality of Irrational Beliefs using Boxplot</td>
<td>84</td>
</tr>
<tr>
<td>3.9</td>
<td>Normality of Stress using Boxplot</td>
<td>84</td>
</tr>
<tr>
<td>3.10</td>
<td>Linearity of Activating Event on Stress using Scatter plots</td>
<td>87</td>
</tr>
<tr>
<td>3.11</td>
<td>Linearity of Irrational Beliefs on Stress using Scatter plots</td>
<td>87</td>
</tr>
<tr>
<td>3.12</td>
<td>Model of Mediation</td>
<td>95</td>
</tr>
<tr>
<td>4.1</td>
<td>Summary of Findings of Mediation Analysis of Irrational Beliefs in the Relationship between Activating Event and Stress.</td>
<td>112</td>
</tr>
</tbody>
</table>
LIST OF ABBREVIATIONS

DV = Dependent variable
H₀ = Null hypothesis
H₁ = Alternative hypothesis
IV = Independent variable
IRT = Item Response Theory
CBS = Common Beliefs Survey
CTT = Classical Test Theory
MV = Mediating variable
QTAES = Questionnaire of Teacher’s Activating Event and Stress
QTIB = Questionnaire of Teacher’s Irrational Beliefs
REBT = Rational Emotive Behavior Therapy
Sig. = Significant
SPM = Sijil Pelajaran Malaysia
SPSS = Statistical Package for Social Sciences software
STPM = Sijil Tinggi Pelajaran Malaysia
LIST OF SYMBOLS

& = And
% = Percent
= = Equal
- = Minus
+ = Total
< = Less than
> = More than
/ = Divide
f = frequency
r = Pearson’s correlation coefficient
p = Significant level
N = Total
# LIST OF APPENDICES

<table>
<thead>
<tr>
<th>APPENDIX</th>
<th>TITLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Flow Chart for Study Procedure</td>
</tr>
<tr>
<td>B</td>
<td>Table for Determining Sample Size from a Given Population</td>
</tr>
<tr>
<td>C</td>
<td>Survey Questionnaire</td>
</tr>
<tr>
<td>D</td>
<td>Finding of Study in SPSS Format</td>
</tr>
</tbody>
</table>
CHAPTER 1

INTRODUCTION

1.1 Introduction

This study aims to explore the relationship between irrational beliefs, activating event and stress experienced by secondary school teachers in Skudai, Johor Bahru, Malaysia. The purpose of this study was to examine irrational beliefs as mediator in the relationship between activating event and stress among secondary school teachers through extensive theoretical study of irrational beliefs and teacher stress. The study begins with the research background, statement of problem, objectives and hypotheses, significance of the study, scope of the study and its limitations. Conceptual and operational definitions of irrational beliefs, activating event and stress are also described in this chapter.
1.2 Research Background

The teaching profession is an occupation exposed to high risk for stress (Azlihanis et al., 2009). Teaching has been proven to be a stressful job by many researchers in previous studies (Shirley & Kathy, 2002) and treated as the field most affected by stress (Lucica, 2012). Sveinsdottir, Gunarsdottir, and Fridriksdottir (2007) state that, the working environment for teacher is highly stress-provoking. Teachers have to cope well with their task, including provide knowledge and educate students at the same time, marking homework, handling student discipline problem, dealing with parents, student performance, paper works etc. Teachers in Malaysia have to respond to the increasing demands of students and parents, as well as the job requirements imposed by Ministry of Education Malaysia. Therefore, the stress levels of teachers in Malaysia are steadily increasing (Nurul Izzah et al., 2010). In addition, mental illness among teachers has become an increasing problem in many countries (Bauer et al., 2005; Bauer et al., 2007; Webber, Weltle and Lederel, 2006), and situations such as psychiatric and psychosomatic disorders can worsen and lead to premature retirement (Sveinsdottir et al., 2007).

Stress has been generally defined as an unpleasant emotional experience associated with feelings of anger, anxiety, tension, and frustration and linked with specific environmental triggers (Kyriacou, 2001). In situations where demands are high, the amount of control within the individual was low, and limited support or help is available, stress is most likely to occur (Nurul Izzah et al., 2010). An individual may be stressed when they experienced unpleasant emotional triggered by environmental factor. Teaching is among one of profession where teacher need to balance physical, emotional and mental strain between students, workload, colleagues and administrations in daily life. The differences of stress experienced by teachers may lay in how they perceive and cope with the change they faced (Ellis et al., 1997). According to Kyriacou (2001), teacher stress is defined as experiences among teachers which are associated with unpleasant and negative emotions resulting from the working environment, such as anxiety, anger, frustration, depression and nervousness.
“Teacher stress” has become a field of study for many researchers in many countries recently and this scenario can be clearly seen from the increased amount of studies on teacher stress (Kyriacou, 2001; Hanizah, 2003). According to Health and Safety Executive (2000) from the United Kingdom, teaching is the most stressful occupation when compared to other occupations, such as nursing, managing, professional and community service occupations. The Health and Safety Executive (2000) also reveals that two out of five teachers in the United Kingdom suffer from stress, compared one out of five workers from other occupations. According to Meehan (2011), teachers are under a great deal of pressure due to the increasing state mandates and emphasis on student performance. The idea of the performance of their students being made public can be very overwhelming for teachers. Thus, the risk of burnout and stress are increasing. Therefore, the measuring of teacher stress is essential and plays an important role in understanding the process that lead to teacher stress (Azlihanis et al., 2009).

The factors that lead to stress are called stressors and or “activating event” in this study, based on the Rational Emotional Behaviour Therapy (REBT) approach. According to National Union of Teachers (2009), stressors such as disruptive student, workload and lack of support had put teachers’ mental health in danger. These circumstances can increase the level of stress when an individual receives a stressor. The model for teacher stress proposed by Richard and Christine (1989) includes teaching history and personal factors as the stressor for job stress. Dealing with students’ problem behavior is also considered as an important source of teacher stress as shown in studies on the teaching profession (Kokkinos, 2007). Gutpa (1981) emphasizes that environmental, organizational, and individual are the three major types of stressor. Meanwhile some urban teachers are burdened by policies emphasizing test scores, teaching a high numbers of students with complex learning and mental health needs unmet, and they reported high rates of job dissatisfaction when compared with their suburban and rural counterparts (Kataok et al., 2002).
However, irrational belief was found to behave as mediator in the relationship between activating event and stress (Jacofsky, 2005). “Irrational beliefs” are defined by Dryden and Neenan (2004) as unhealthy beliefs that will contribute to low performance. Anderson (2000) advocated that irrational beliefs are unrealistic, illogical, and often lie on inaccurate premises or deductions. “Irrational beliefs” are command and not true, and will lead to disturbed emotions, and do not help in attaining goals (Walen et al., 1992). Rational beliefs and irrational beliefs are basically the two types of beliefs that lie within an individual. According to REBT theory, “stress” is determined by how individuals perceive and evaluate stressful events, and not determined by actual event occurred in their daily life (Ellis et al., 1997). In other words, stress was not determined by the activating event in a person’s life but by a person’s beliefs. This statement is further supported by Long (2010) who states that teacher lack awareness of thoughts and emotions often have difficulties in responding to adverse student behavior. Thus, the need to study on teacher irrational beliefs is urged as this will affect the performance of student and teachers in future and was supported by Ellis (2006) who theorizes that decreasing irrational beliefs leads to healthier expressions of emotions and more functional classroom behaviors among teachers.

However, “stress”, “activating event”, and “irrational beliefs” do not only behave independently but influence each other in different situations also. Ellis and Bernard (2006) assert that the relationship between activating event and stress variables are supported REBT approach especially the ABC Model. Some researcher revealed irrational beliefs and stress (Mastura et al., 2010). Laura and Marfa (2006) found that teacher irrational beliefs correlate significantly and positively with teacher distress, as well as with the psychological variables, and with the data on absenteeism, and significant relationships between irrational beliefs, burnout, somatisation, depression, anxiety, and role-related stress.

Meanwhile, Meehan (2011) and Lucica (2012) justified the relationship between irrational beliefs and stress which revealed teachers recorded high number of irrational beliefs suffered from high level of burnout and the possibility of teachers
having high level of irrational beliefs may view themselves as having high level of stress. Dryden (2012) states that stress are largely determined by cognitive factors of beliefs held by individuals whether rational or irrational. Therefore, it is required to determine of the existence of the relationship between irrational beliefs and stress. ABC Model is the main component of REBT that shows a significant relationship between emotional disturbance or stress and the belief systems towards events that occur in individual’s daily life. Thus, the study of irrational beliefs and stress was supported to be carried out by employing Model ABC in REBT approach.

According to Marić (2000), individuals with high levels of irrational beliefs will develop unhealthy negative emotional response in the presence of negative activating events. Hence, it was believed that individuals with irrational beliefs have a higher tendency toward holding unhealthy beliefs regarding negative event compared to individuals with rational beliefs. The stress faced by individuals has a significant relationship with their beliefs system toward event that occurs to them (Ellis, 2002). David et al. (2005) also revealed high level of stressful event associates with high level of irrational beliefs with both functional and dysfunctional negative feelings. Since individuals may have rational beliefs or irrational beliefs towards an event that has happened to them, the level of irrational beliefs held among secondary school teachers were studied. Therefore, in this study the researcher is interested in determining the relationship between activating event and consequences of teacher stress as a whole.

The occurrence of activating event may trigger the beliefs of individuals towards the event and how they react as consequences according to Model ABC developed by Ellis and Bernard (1983). Model ABC of Ellis and Bernard (1983) was developed based on the REBT approach where the happening of A (happening event) will trigger the B (beliefs) of individual and will contribute to the C (consequences). Ellis (1991) has also found that different stress situations have significant relationship with individual’s perception of that particular situation.
REBT can be applied in educational field and the extension of REBT can be denoted by rational-emotive behaviour education and also consultation (Bora et al., 2009). Hence, the study of activating event, irrational beliefs and teacher stress was carried out in REBT approach by employing Model ABC and discuss: stressor in context of activating event (A), irrational belief in context of beliefs (B) and stress in context of consequences (C). The usage of REBT approach and Model ABC are able to avoid the general assumption of stress being caused by activating event. Researcher became interested in the issues of how irrational beliefs can mediate in the relationship between activating event and stress.

Up to now, researcher has not yet found any study related to the three variables among the secondary school teachers. Hence, this study will explore to what extent irrational beliefs act as mediator in the relationship between activating event and stress among secondary school’s teachers. The objective of this study is to study the irrational beliefs (B) as a mediator in the relationship between activating event (A) and stress (C) among secondary school teachers.

1.3 Statement of Problems

Teachers have come under fire for student’s achievement gaps and reformed policies enacted by the government to enhance schools and teachers effectiveness (Shernoff et al., 2011). Similar situation take place in Malaysia, where teachers have to cope with daily teaching sessions, students affair, paper works, providing student academic information required by ministry, being responsible for student’s performance, and other tasks in daily routine. Some teachers even have to bring their works home in order to complete task on time and these situations had led to experience of stress among teachers. An unproductive level of stress may be a risk to teachers as it can affect teaching performance, personal life, and also students (Swortzel, 1999). The increase in teacher stress is not surprising, as a large
population of teachers face psychological distress, mental and physical fatigue when compared to other professions (Shernoff et al., 2011). Thus, teachers’ risk of experienced stress is increasing, and therefore it is important in understanding the process that lead to teacher stress (Azlihanis et al., 2009).

Local research has revealed the situation of teacher stress among primary and secondary schools. Nurul Izzah et al. (2010) report that 71.7 percent teachers experience moderate level of stress, while 12.1 percent reported a low mental health status among primary school teachers in Klang Valley, Malaysia. Another researcher has revealed 34 percent of stress prevalence, 17.4 percent of mild-stress suffered by secondary school teachers in Kota Bharu, Malaysia, and that non-job-related factor such as age, duration of work and psychological job demands are significantly associated with stress level of teachers (Azlihanis et al., 2009). Hence, it is important to study teachers’ stress in individual countries especially among secondary schools teachers who also need to handle teenager’s issues such as discipline, juvenile crime, gangsters and vandalism besides daily workload. Thus, local circumstances must be taken into account in design of study so the problem of teachers stress can be solved from the root. The design of the study was correlation in order to study the factors that influence stress among teachers.

However, study regarding stressors and levels of stress among teacher was not enough as there are other indirect causes contributing to teacher’s stress other than activating event. Therefore, the influence of any mediator in the relationship between activating event and stress among teacher can be studied. This has led to the misconception that stress is caused by activating event without influenced by other aspects. According to the REBT theory, “stress” is determined by how individuals perceive and evaluate stressing events, not by the actual event (Ellis et al., 1997). This means that when teachers faced with a task, the stress they experience were different depending on how they treat the given task.
Therefore, there is a gap or issue that there are other indirect causes contributing to teacher’s stress other than activating event. For example, some teacher felt more stressed and some felt less stressed when given similar task (which act as an activating event). This issue was in line with Nurrul Iza (2013) who found irrational beliefs as partial mediator to activating event (A) and stress (C) among fully residential school teachers in Johor. Moreover, irrational beliefs act as a convincing mediator variable than as a moderator in the relationship between events (activating events, A) and emotional reactions (irrational beliefs, B) (Jacofsky, 2005). Thus, this study will focus on to what extent irrational beliefs (B) acts as mediator in the relationship between activating event (A) and stress (C) by using hierarchical multiple regression in the Mediation analysis. However, there is possibility of different results regarding the impact of irrational beliefs as mediator which either no mediation, partial mediation or full mediation in the relationship between activating event and stress in this study.

Meanwhile, irrational belief is one of main idea in Rational Emotional Behavioral Therapy, REBT. REBT can be applied in educational field and the extension of REBT can be denoted by rational-emotive behaviour education and also consultation (Bora et al., 2009). Hence, the researcher was interested to carry out the study using REBT approach; other suitable theory will also be studied and compared to be used as the theoretical guidelines of the study. The overriding problem of this study is to study irrational beliefs as mediator, and to what extent does it influence the relationship between activating event and stress among secondary school teachers.

The study was carried out qualitatively so that the level of stress and the impact of irrational beliefs can be measured. Since there is no study has yet been carried out related to the influence of irrational beliefs in the relationship between activating event and stress among teachers in Skudai, Johor Bahru, hence researcher takes the initiative in conducting this study among secondary school teachers in Skudai, Johor Bahru. This study has been conducted to find out the level of irrational beliefs and stress among teachers based on the REBT theory, and to examine irrational beliefs as mediator between the activating event and stress.
1.4 Purpose of Study

The purpose of this study is to study irrational beliefs among secondary school teachers and identify to what extent the irrational beliefs act as a mediator in the relationship between activating event and stress among secondary school teacher.

1.5 Research Questions

Abdul Halim Abdul Raof (2007) defines the research question as the enquiry needed by researcher to find out the answer for a study. The research questions for this study are extended from problem of statement so that the result of this study will reveal the answer of research questions precisely following the core of this study. The research questions of this study are:

1. What is the level of irrational beliefs (B) among secondary school teachers?
2. What is the level of stress (C) among secondary school teachers?
3. What is the impact of activating event (A) on stress (C) among secondary school teachers?
4. What is the impact of activating event (A) on irrational beliefs (B) among secondary school teachers?
5. What is the impact of irrational beliefs (B) on stress (C) among secondary school teachers?
6. To what extent do irrational beliefs (B) act as mediator in the relationship between activating events (A) and stress (C) among secondary school teachers?
1.6 Research Objectives

Research objectives are what is to be achieved through the study and should be related to the research questions (Abdul Raof, 2007). The research objectives should be derived based on the research questions to ensure that the study is carried out according to its main purpose. The objectives of this study are:

1. To identify the different levels of irrational beliefs (B) among secondary school teachers.
2. To identify the different levels of stress (C) among secondary school teachers.
3. To identify the impact of activating event (A) on stress (C) among secondary school teachers.
4. To identify the impact of activating event (A) on irrational beliefs (B) among secondary school teachers.
5. To identify the impact of irrational beliefs (B) on stress (C) among secondary school teachers.
6. To identify irrational beliefs (B) as mediator in the relationship between activating event (A) and stress (C) among secondary school teachers.

1.7 Hypotheses of the Study

According to Salkind (2009), the definition of “hypothesis” is stated as an educated guess to be tested. Salkind (2009) also states that a null hypothesis refer to a statement of equality between variables in an investigation. The hypotheses of this study are:
$H_1$: There is significant impact of activating event (A) on stress (C) among secondary school teachers in Skudai, Johor Bahru.

$H_2$: There is significant impact of activating event (A) on irrational beliefs (B) among secondary school teachers in Skudai, Johor Bahru.

$H_3$: There is significant impact of irrational beliefs (B) on stress (C) among secondary school teachers in Skudai, Johor Bahru.

$H_4$: There is significant impact of irrational beliefs (B) as mediator in the relationship between activating event (A) and stress (C) among secondary school teachers in Skudai, Johor Bahru.

### 1.8 Significance of the Study

This study will contribute significantly to all units and fields involving researchers into secondary schools in Skudai, Johor Bahru and their management, education field, and also for general knowledge enlargement.

In terms of knowledge, especially in the emotional and behavioral psychology fields, the result of this study contributes empirical evidence concerning the relationship between activating event, and stress based on irrational beliefs as a mediator among teachers. The aim of this study is to increase the number of studies related to the three variables: activating event, irrational beliefs, and stress, as there are only few studies that have been carried out regarding these three variables in Malaysian context.

Based on the academic or research perspectives, this study directly provides the findings on the relationship between activating event (A) and stress (C), relationship between irrational beliefs (B) and stress (C), and the relationship...
between activating event (A) and irrational beliefs (B) with statistic explanation based on teacher’s irrational belief. Through this study, the researcher has obtained better understanding to what extent irrational beliefs act as mediator in the relationship between activating event and stress held by secondary school teachers.

The results of this study also provide constructive ideas and practical recommendations for secondary schools administration in providing stress management courses for teachers. They may utilize the information obtained by this study as a guideline to associate activating event (A) and stress (C), irrational beliefs (B) and stress (C), and activating event (A) and irrational beliefs (B) among teachers.

The results of this study may also assist teachers in Skudai to identify what contributes to their stress most at their workplace. The identification of stressor that contribute to stress not only helps to enhance a healthy working environment, quality education is also being ensured and delivered to students under stress-free condition.

The results obtained through this study benefit the target schools by helping their administrations in obtaining a clearer picture of the levels of stress and irrational beliefs faced by the teachers in their school. Furthermore, the school administrations can further understand the importance of teachers’ beliefs and how teachers’ irrational beliefs can play a mediator role in the relationship between activating event and stress. By this, the school administrations recognize the need of minimizing irrational beliefs in order to decrease the level of irrational belief and stress among the teachers in their school.
1.9 Scope of Study

This study is focused on investigating the irrational beliefs as mediator in the relationship between activating event and stress among secondary school teachers in Skudai, Johor Bahru. In this study, a total of 250 teachers were selected as the respondents.

The demographic factors are not limited in this study, as it consists of differences in gender, age, races, academic qualifications and teaching experience, all of which can have affected the respondent’s irrational beliefs and stress. The variables of this study include activating event, irrational beliefs, and stress. The independent variable, mediator, and dependant variable of this study are respectively activating event, irrational belief, and stress. The irrational beliefs of teachers were measured by four dimensions: demandingness, awfulizing, low frustration tolerance, and global evaluation.

The data of the respondents were collected through a set of questionnaire to determine the relationship between irrational beliefs systems and stress among boarding school students. Research design of the study was correlational and the data collected from the respondents were then analyzed using Statistical Package for Social Sciences (SPSS) software. The time taken to conduct this study was approximately three months.
1.10 Conceptual and Operational Definitions

Both conceptual and operational definitions for each variable involved in this study were elaborated as below. There are terms that require detailed definition as there may be difference between a general definition and a definition of variables in this study. According to Sabitha Marican (2005), a conceptual definition is general as it refers to the theoretical definition that has to be stabilized by previous study. As for operational definitions, Sabitha Marican (2005) refers to it as a definition that is being used by a researcher to explain to the respondents the variables that are being studied. These definitions give a brief picture about how the studied variables shall be understood and manipulate.

1.10.1 Activating Event (A)

Grieger and Woods (1993) described an activating event as the trigger of a person’s belief system at point “A” of Model ABC. An activating event may be an activity, action, agent, experience, object, person, situation, or stimulus in the ABC model that disturb an individual (Ellis and Dryden, 1997).

An activating event is any event that happens under the circumstances that a person will perceive, evaluate and trigger their beliefs about the event. Stressors of teachers may include conflict with the school’s administration, unmotivated students and work overload (Byrne, 1999). An event cannot be taken as an activating event if the individual does not perceive any emotional information or emotional disturbance from it.
In this study, an activating event is adapted to the concept of “A” which is an activating event in the ABC framework of REBT. An activating event in this study is being used to address causes, stressors, impacts, and factors of stress. This allows and fulfills the requirement of relationship between stressors (activating event) and stress for mediator analysis. From the perspectives of stress, activating event may be the stressor experienced by an individual. Therefore, the activating events experienced by respondents were measured by employing an instrument, namely *Questionnaire of Teacher’s Activating Event and Stress (SPTG)* which consist of 34 items. This instrument requires the responses of respondents regarding activating event based on the dimensions of stress such as: workload, student’s attitude, administrator’s attitude, and teacher’s attitude.

### 1.10.2 Irrational Beliefs (B)

According to Dryden and Neenan (2004), irrational beliefs are any ideas or beliefs which are rigid and extreme, illogical, not consistent with reality empirically and hinder an individual from achieving goals. On the other hand, rational beliefs are ideas or beliefs that are flexible, pragmatic, logic, consistent with reality not extreme and assist individuals towards achieving goals.

According to DiGiuseppe (1996), irrational beliefs refer to beliefs that can have impacts on emotion that is maladaptive and inappropriate, behavior that prevent individuals from achieving their objectives. In contrast with irrational beliefs, rational beliefs are those where individuals can think rationally even when encountering negative event or unexpected situation.
In this study, irrational beliefs refer to the scores obtained using the Questionnaire of Teacher's Irrational Beliefs (SSKG). The SSKG consists of 49 items which include four subscales of irrational beliefs based on the REBT approach, namely: demandingness, awfulizing, low frustration tolerance, and global evaluation as stated below:

i. Demandingness:
   A rigid idea whereby individual absolutely prioritize a certain situation so that it “must” or “must not” happen.

ii. Awfulizing:
    The idea, evaluation or belief that is extreme toward a negative event.

iii. Low frustration tolerance:
    An idea or extreme belief that occurred when a situation does not fulfilled an individual.

iv. Global evaluation:
    A negative evaluation made on oneself, others or the overall living conditions.

1.10.3 Stress (C)

According to Hans Selye (1974), demands for physiology, psychology, and environment causes stress. Selye (1974) states that individual body tends to create extra energy when dealing with stressors, and stress occurs due to fact that individual bodies do not utilize all the energy created when dealing with stressor or activating event.

David (1984) asserts that occupational stress has two conceptual definitions. Firstly, occupational stress refers to physiological responses of individuals such as increased heart rate, blood pressure, as well as the release of cortisol hormone into
the blood stream that resulted from individual’s frustrations caused by the interaction with the environment. Secondly, it refers to the negative appraisal from the environment itself such as workload, inadequate resources and time associated with the current job that lead to anxiety and chronic pressure in meeting the job demand. In this study, stress refers to the items scores obtained using *Questionnaire of Teacher’s Activating Event and Stress (SPTG)*, which consist of 34 items.

### 1.11 Summary

In conclusion, this chapter has explained the research background, statement of problem, research objective, research hypotheses, conceptual and operational definitions of variables in details. There are three variable in this study: activating event as independent variable, irrational beliefs as mediator variable and teachers stress as dependent variable. The main purpose of this research is to discuss how irrational beliefs can affect relationship between activating event and stress. Teachers’ irrational beliefs play the role of mediator between activating event and stress can be identified through this research.
REFERENCES


and a Sample of 949 German Teachers. *International Archives of Occupational Health*, 80, 442-449.


