RELATIONSHIP BETWEEN SOURCES AND TEACHERS' SENSE OF EFFICACY AMONG NOVICE TEACHERS IN SELANGOR, MALAYSIA

SAW HOOI CHIN

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RELATIONSHIP BETWEEN SOURCES AND TEACHERS' SENSE OF EFFICACY AMONG NOVICE TEACHERS IN SELANGOR, MALAYSIA

By

SAW HOOI CHIN

Thesis Submitted to the School of Graduate Studies, Universiti Putra Malaysia, In Fulfilment of the Requirements for the Degree of Master of Science

November 2007
DEDICATION

To
My beloved husband,
Lim Kuang Leng
and my supporting best friend,
Tsai Chen Chien
For all the love, care, patience, understanding and unfailing support.
This study attempts to investigate novice teachers’ sources of efficacy in relation to the application of knowledge in Educational Psychology. The study is aimed to identify which particular source of efficacy information and other demographic factors, such as novice teachers’ gender, ethnic group, subject matter knowledge best function as factors that instill higher efficacy beliefs among novice teachers. The two instruments used were the Teacher Sense of Efficacy Scale (TSES) developed by Tschannen-Moran and Woolfolk Hoy (2001), and the Sources of Teacher Efficacy Inventory (STEI) developed by the researcher. The questionnaires were administered to a sample of 160 novice teachers from 102 secondary schools in the District of Petaling and Klang in Selangor. The findings indicated that the novice teachers demonstrated a
moderate level of teachers’ sense of efficacy (M=3.85, SD=0.38). The majority of 66.9% novice teachers fall into the moderate level of teachers’ sense of efficacy group. They also perceived a moderate level of all four sources of efficacy, namely mastery experience (M=3.58, SD=0.33), vicarious experience (M=3.82, SD=0.32), social persuasion (M=3.85, SD=0.32), and physiological or emotional arousal (M=3.61, SD=0.38). There was a strong and significant positive correlation between the mastery experience and teachers’ sense of efficacy [r = 0.71, p < 0.05], a moderately low and significant positive correlation between the vicarious experience and teachers’ sense of efficacy [r = 0.33, p < 0.05], a moderately strong and significant positive correlation between the social persuasion and teachers’ sense of efficacy [r = 0.46, p < 0.05], and a weak but significant negative correlation between the physiological or emotional arousal and teachers’ sense of efficacy [r = -0.17, p < 0.05]. There was no significant difference in novice teachers’ sense of efficacy in relation to gender [t(158)=0.73, p>0.05], ethnic groups [F(2,157)=0.42, p>0.05], and subject matter knowledge [t(158)=0.56, p>0.05]. This shows that the demographic variables do not affect teachers’ senses of efficacy. The three sources of efficacy, namely mastery experience, vicarious experience, and social persuasion were identified as the predictors of teachers’ sense of efficacy [Adjusted $R^2 = 0.50$, F(3, 155) = 53.16, p<0.01]. The implication of the study on the theory and practice of teachers’ sense of efficacy was discussed. Suggestions and recommendations were offered to enhance and foster senses’ of efficacy among the novice teachers.
Abstrak tesis yang dikemukakan kepada Senat Universiti Putra Malaysia sebagai memenuhi keperluan untuk ijazah Master Sains

HUBUNGAN ANTARA SUMBER DAN EFIKASI GURU BARU DI NEGERI SELANGOR, MALAYSIA

Oleh

SAW HOOI CHIN

November 2007

Pengerusi: Samsilah Roslan, PhD
Fakulti: Pengajian Pendidikan

Kajian ini bertujuan untuk mengkaji sumber efikasi guru baru berlandaskan aplikasi pengetahuan Psikologi Pendidikan. Kaji selidik ini bertujuan untuk mengenal pasti sumber efikasi sebagai sumber maklumat tertentu dan juga faktor demografi yang lain, seperti jantina, kumpulan etnik guru baru, dan juga mata-pelajaran yang diajar sebagai faktor-faktor dalam memupuk efikasi kendiri di kalangan guru baru yang lebih tinggi. Dua instrumen yang digunakan dalam kajian ini termasuklah Skala Efikasi Guru (TSES) yang dihasilkan oleh Tschanen-Moran dan Woolfolk Hoy (2001), dan Inventori Sumber Efikasi Guru (STEI) yang dihasilkan oleh pengkaji. Kedua-dua soal selidik telah dihantar kepada sejumlah 160 orang guru baru dari 102 buah sekolah menengah di
sekitar daerah Petaling dan Klang di Selangor. Hasil kajian ini menunjukkan bahawa guru-guru baru memaparkan tahap sederhana dalam efikasi guru (M=3.85, SD=0.38). Sebanyak 66.9% daripada guru-guru baru berada dalam kumpulan tahap efikasi sederhana. Keempat-empat sumber efikasi adalah juga pada tahap sederhana, iaitu pengalaman penguasaan (mastery) (M=3.58, SD=0.33), pengalaman pemerhatian (M=3.82, SD=0.32), pengaruh sosial (M=3.85, SD=0.32), dan faktor fisiologi dan emosi (M=3.61, SD=0.38).

Daripada kajian, terdapat perhubungan positif yang signifikan antara pengalaman penguasaan dengan efikasi guru [r = 0.71, p < 0.05], perhubungan positif dan sederhana rendah antara pengalaman permerhatian dengan efikasi guru [r = 0.33, p < 0.05], perhubungan positif dan sederhana di antara pengaruh sosial dan efikasi guru [r =0.46, p < 0.05], dan perhubungan negatif yang lemah tetapi signifikan antara faktor fisiologi dan emosi, dengan efikasi guru [r =-0.17, p < 0.05]. Walau bagaimanapun, tiada perbezaan yang signifikan dalam efikasi kendiri guru baru berhubung-kait dengan jantina [t(158)=0.73, p>0.05]), kumpulan etnik [F(2,157)=0.42, p>0.05], dan pengetahuan dalam mata pelajaran yang diajar [t(158)=0.56, p>0.05]. Ini menunjukkan bahawa faktor-faktor demografi tidak mempengaruhi efikasi guru baru. Tiga sumber efikasi, iaitu pengalaman penguasaan, pengalaman pemerhatian dan pengaruh sosial telah dikenalpasti sebagai faktor-faktor penentuan efikasi guru [R² = 0.50, F(3, 155) = 53.16, p<0.01]. Implikasi kajian ke atas teori dan perlaksanaan efikasi guru telah dibincangkan. Cadangan-cadangan telah disyorkan untuk meningkat dan memperkukuhkan efikasi di kalangan guru-guru baru.
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First and foremost, I would like thank God for embellishing me with the strength, patience and confidence to complete this thesis. Without the much needed strength, it would be impossible for me to complete this research writing successfully.

This study would not have been completed successfully without the guidance and help of all my supervisors. I would like to extend my heartfelt and special thanks to Dr Samsilah Roslan, who is my Chairperson of the Supervisory Committee, for her guidance, patience, support and encouragement. Dr Samsilah has been the main person whom I referred to for source of information, methods of research, area of statistical analysis, alternatives for solving problems, and the write up of a professional thesis. My deepest appreciation to her again, who has undertaken the task of advising and correcting my writings.

My deepest gratitude also goes to Prof. Madya Dr. Rahil Mahyuddin, who has supervised my thesis from the very beginning to the end. Her guidance and comments have given this research depth and details. I am also thankful of her experienced responses which have helped me to be more focused in scoping and solving the problems occurred throughout the research. I have benefited greatly from her vast experience, expertise and knowledge.
Special thanks and appreciation are also extended to another member of my Supervisory Committee, Dr Suhaida Abdul Kadir. Her contributions to this study are invaluable. Without her unfailing guidance, support and encouragement, I could never have completed this thesis. I am also thankful of her thoughtful comments and rational critics. I have learnt much from her especially in becoming more logical and critical in thinking.

I want to thank all the principles in the secondary schools at the Districts of Petaling and Klang in Selangor for allowing and assisting me in distributing the questionnaires to the selected teachers. I would also like to thank the teachers for their cooperation in completing the questionnaires with truthful responses.

My heartiest and sincere gratitude also goes to my family members, especially my father Mr Saw Kam Chuan who has given me love, support and encouragement throughout the study. I would also like to express my special thanks to my dear husband Mr Lim Kuang Leng and my best friend Ms Tsai Chen Chien for giving me inspiration and providing me with their unfailing support and care throughout the duration of my study in UPM.
I certify that an Examination Committee has met on 26th November 2007 to conduct the final examination of Saw Hooi Chin on her Master of Science thesis entitled “Relationship between Sources and Teachers’ Sense of Efficacy Among Novice Teachers in Selangor, Malaysia” in accordance with Universiti Pertanian Malaysia (Higher Degree) Act 1980 and Universiti Pertanian Malaysia (Higher Degree) Regulations 1981. The Committee recommends that the student be awarded the degree of Master of Science.

Members of the Examination Committee were as follows:

**Sharifah Md. Noor, PhD**
Professor
Faculty of Educational Studies
Universiti Putra Malaysia
(Chairman)

**Habibah Elias, PhD**
Professor
Faculty of Educational Studies
Universiti Putra Malaysia
(Internal Examiner)

**Tajularipin Sulaiman, PhD**
Lecturer
Faculty of Educational Studies
Universiti Putra Malaysia
(Internal Examiner)

**Saemah Rahman, PhD**
Lecturer
Faculty of Educational Studies
Universiti Kebangsaan Malaysia
(External Examiner)

---

HASANAH MOHD. GHAZALI, PhD
Professor and Deputy Dean
School of Graduate Studies
Universiti Putra Malaysia

Date: 29 January 2008
This thesis was submitted to Senate of Universiti Putra Malaysia and has been accepted as fulfilment of the requirement for the degree of Master of Science. The members of the Supervisory Committee were as follows:

Samsilah Roslan, PhD
Lecturer
Faculty of Educational Studies
Universiti Putra Malaysia
(Chairman)

Rahil Haji Mahyuddin, PhD
Associate Professor
Faculty of Educational Studies
Universiti Putra Malaysia
(Member)

Suhaida Abdul Kadir, PhD
Lecturer
Faculty of Educational Studies
Universiti Putra Malaysia
(Member)

AINI IDERIS, PhD
Professor and Dean
School of Graduate Studies
Universiti Putra Malaysia

Date: 21 February 2008
DECLARATION

I hereby declare that the thesis is based on my original work except for quotations and citations which have been duly acknowledged. I also declare that it has not been previously or concurrently submitted for any other degree at UPM or other institutions.

Date: 24 December 2007

SAW HOOI CHIN
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CHAPTER 1

INTRODUCTION

This chapter discusses the background of the study and the statement of problem, listing the objectives of the study, research questions and hypothesis, as well as highlights the significance and limitations of study. Last but not least, the explanation also includes the operational definitions of important terms and variables in the study.

1.1 Background of the Study

Historically, educational system is entrusted with the task of educating young generations the values of society to ensure the survival of that society. No doubt, the future of a nation depends highly on the success of its educational system. As stipulated by the Malaysian National Philosophy of Education (Ministry of Education, 2004), the aim of the educational system is to ensure a balanced development of her citizens intellectually, spiritually, emotionally and physically in order to create a healthy and well-integrated society.

Closely related to learning is teaching. Touching on teaching, its unavoidable, we deal with teachers. To produce teachers who have visions and able to fulfill
the national philosophy of education, they need to be prepared and equipped with skills, knowledge and values on spiritual, physical, emotional and intellectual as well. They must have strong self-concept, religious and social values, as based on the conceptual model of teacher education suggested by Noorbee (2003) (see Figure 1.1).

![Conceptual Model of Teacher Education](image)

**Figure 1.1: Conceptual Model of Teacher Education (Noorbee, 2003)**

Since teachers are the backbone of a good educational system, various research has been conducted to identify good quality teaching. Effective teachers have been characterized as being caring, empathetic yet in control, warm, enthusiastic, fair, democratic, responsive, understanding, kind, stimulating, original, alert, attractive, responsible, steady, poised and confident (Minor,
Onwuegbuzie, Witcher, & James, 2002; Ryan, & Cooper, 1988). Besides the personal characters, effective teachers are those having strong cognitive skills to select, organize and deliver content in the subject matter with the use of varied instructional techniques, as well as strong interpersonal skills to establish optimum climate with students and other school communities. Effective teachers also believe in their own abilities, have high expectations and are members of the learning communities themselves (Minor et. al, 2002).

Obviously, issues of teacher training are important indicators of effective teaching. In order to achieve the level of professionalism, professional training in teacher preparation program is demanded. In the case of Malaysia, professional preparation of teachers is done through formal course work and practical teaching in universities and teaching colleges. The aim of teacher education is to prepare teachers to meet the increase and diverse needs of the students, and the learning and teaching environment (Wong, 1977). Hence, despite the needs to provide teachers with the subject matter knowledge, teachers need to be equipped with effective teaching skills (Mohd Ibrahim, Kamariah, Rohani, & Noran Fauziah, 1993).

In order to facilitate the creation of effective teaching skills, the study on foundation of education for prospective teachers is vital. Orteza y Miranda and Magsino (1990) in their writing supported the fact that teaching can indispensably profit from foundational studies. Theoretical knowledge draws
on concepts from psychology, history, philosophy, and sociology of education enable teachers to engage in meaningful reflections and decision making as they apply the knowledge and skill gained to the specific and complex reality of the classroom (Orteza y Miranda & Magsino, 1990; Reitman, 1977; Ryan, & Cooper, 1988).

Due to the complex reality of the classroom, Educational Psychology as one of the foundation studies have been focusing on complex learning and multidimensionality in teaching (Anderson, Blumenfeld, Pintrich, Clark, Marx, and Peterson, 1995). In other words, Educational Psychology is a powerful tool to understand the minds of the learners and to foster ways of effective teaching (Olson & Bruner, 1996; Ashton, 1999).

In order to prepare teachers in facing the complexity, multidimensionality and uncertainty in teaching and learning, the main purpose of Educational Psychology is to develop the psychological perspective among teachers (Anderson et. al, 1995). Hence, Anderson et al (1995), Hoy (1996) and Shuell (1996) suggested that domains in Educational Psychology should include human learning and cognition, learners’ stages of development (cognitive, physical, affective and personality development), motivation, assessment and measurement, individual and group differences, teaching and instructional methods, social, cultural factors and special population, classroom management and disciplinary control.
With the psychological perspective developed in Educational Psychology, complexities teachers face in the classroom can be simplified. Shuell (1996) in his first caveat emphasized that, a teacher who reflects and holds a contemporary psychology perspective based on Educational Psychology knowledge is able to consider the learners' knowledge, motivation and development that contribute to the meaning, actions and the ways of learning. In other words, a teacher with Educational Psychology knowledge is able to think about the way social and instructional contexts of the classroom affect and are affected by individual students' knowledge and development, and therefore are better able to manage the problems and differences in human learning (Shuell, 1996).

Before a teacher is able to make full use of the psychological perspective developed in Educational Psychology, the teacher's educational belief is another powerful factor that will affect the acquisition and interpretations of the knowledge in Educational Psychology (Pajares, 1992). This belief later influences teacher's teaching behavior in planning, instructional decision and classroom practice. Nespor (1987) noted that teacher's belief plays a major role in affecting teachers in defining the teaching tasks and selecting the teaching strategies especially in the area of classroom and behavior management, as well as in the adaptation of learning materials, assignments, and assessment (Wertheim & Leyser, 2002).
Noticing the importance of teacher’s educational belief, Doyle and Carter (1996) claimed that the process of establishing the beliefs on the psychological knowledge and its relation to practical and real world teaching problems has unfortunately been troublesome. This practically is due to the fact that, the same theory can support different actions, and different theories can lead to the same practice (Murray, 1989). Therefore, most of the teachers are confused in their own belief with the usefulness and applicability of theoretical explanations, especially in the field of Educational Psychology. The root of the problem is not that the theory is wrong or unworkable, but teachers are either having too few opportunities to apply theory to practical situations, or having too many obstructions in translating the theory (Ryan & Cooper, 1988).

The disappointment on the failure of Educational Psychology in contributing to the effective teaching in schools has been highlighted by Kyriacou (1986) and also by Knoff and Batsche (1991). Their statement has now become a true phenomenon in Malaysian schools where teachers have failed to handle the psychological problem faced by students. The Ministry of Health Malaysia (“Student’s Psychological Problem”, 2004) reported that school children nowadays are facing numerous illnesses including headache, social isolation, insomnia, anxiety and nervousness. Overall, the children claim that they are having difficulty in studying and learning at school. School dropouts, child runaways, abuse and neglect, teenage parents, drugs and alcohol abuse are