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A Systematic Review of the Psychological Capital (PsyCap) Research Development: Implementation and Gaps

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Abstract
A systematic review was conducted to investigate the literature on the psychological capital (PsyCap) research development. Four databases (ProQuest, EBSCOhost, Springer and Emerald Insight) were systematically searched to identify relevant articles published between 2008 and 2018. Findings revealed that research on PsyCap within educational organizations is still in its early stage. Most were done using quantitative methods with the emphasis given to the outcomes of the construct. This review highlighted that PsyCap was researched as predictor for a wide range of academic-related outcome such as engagement, motivation, achievement, performance, teachers’ job performance and attitude. This review will contribute to the continuing discussion on PsyCap in educational organization as well as useful to the researchers and policy makers in developing psychological resources within academe. The findings can be used in guiding future research needed to be conducted concerning PsyCap within educational organization by broadening the respondent to beyond teachers and students.

Keywords: Psychological Capital, Psycap, Educational Organizations, Systematic Review, Qualitative

Introduction
At present days, the development of psychological capital (PsyCap) within employee self have gain attention in much literature. Much of the research has found that the development of PsyCap are positively linked with employee work performance that included their engagement to work, job satisfaction, work motivation and etc. The positive result from developing the PsyCap within industrial organization has spurred it needs to be developed within educators as well as the people within the educational organization. The crises and challenges face by people in educational organization is comparable to that in industrial organization. People in educational organization do experienced stress, demotivation, burnout and other negative experiences due to workload they bear. Thus, PsyCap has been identified as an essential psychological resource.
to be develop within educator’s self in order to help them to perform better in their job and further help increase student outcome.

There is a growing demand to develop PsyCap within employee self in order to ensure a better work-related outcomes as well as their well-being while preventing the negative consequences resulted from the challenges and workload they faced in work place. Developing PsyCap has been heavily linked with positive results. Despite the positive results shown, little is know about the development of PsyCap within educational organization. Most of the studies done on psychological capital is focusing on industrial organization and it is convinced that the research on the development of psychological capital within educational organization is still scant to date. Therefore, determining the outcome of developing PsyCap within educational organization is essential in order to identify the results it brings to the people in educational organization and further could potentially contribute to a better academic related outcomes. While there are numbers of studies done on PsyCap, further research is required to scrutinize its development and implementation within educational organization. As such, there are need to review the literature systematically in order to synthesize the available research on PsyCap development within educational organization. This will further accelerate our understanding on the impact PsyCap has to those in educational organization as well as if the impact is comparable to those in industrial organization. By doing so, this will allow us to identify research gaps and provide suggestion for future research. Therefore, this paper examines the published literature on the development of PsyCap within educational organizations.

**What is Psychological Capital (PsyCap)?**
PsyCap comprises four psychological resources construct of Hope, Optimism, Self-Efficacy and Resilience and that, these four travel together and interact work synergistically, to produce differentiated manifestation overtime and across context (Luthans and Yousef-Morgan 2017). The findings in the literature have shown that developing PsyCap within one self will improve employee job performance and outcome. PsyCap in the form of self-efficacy, optimism, hope and resilience serve certain personal qualities that enable workers to cope better in the workplaces and previous studies have shown that PsyCap positively predicted employee outcomes including work engagement (Avey et al. 2008; Simons and Buitendach 2013), work performance (Luthans et al. 2008), job satisfaction (Luthans et al. 2007a, b, 2008), and organizational citizenship behavior (Beal et al. 2013)

A distinct feature of psychological capital is that it is “state-like” and thus developable and measurable. PsyCap is defined as the study and application of positive oriented human resource strengths and psychological capacities that can be measured, developed, and effectively managed for performance improvement in today’s workplace (Luthans, 2002). It emerged as the result of positive psychology movement initiated by Martin Seligman. Luthans (2002) define PsyCap as a concept that goes beyond human capital (what you know), social capital (who you know) and financial capital (what you have). PsyCap is viewed as “who you are” and “who you are becoming”. It is a higher-level, core construct that consists of four dimensions of hope, optimism, resilience and self-efficacy.
**Psychological Capital and Its Outcome**

Past studies have linked psychological capital with various range of variable like job commitment and satisfaction, performance in occupational and social status, anxiety, perceived stress, ability to cope with the pressure and problems, happiness and well-being as well as seeking behavior (Golparvar, 2013; Luthans et al., 2005; Luthans, 2002; Luthans, Youseff & Avolio, 2006). On top of that, it is also postulated that psychological capital improves the value of human capital (individuals’ knowledge and skills) and social capital (network of relationships among them) and thus able to reduces the challenges in the organizations by depending on positive psychological variables such as hope and self-efficacy (Luthans et al., 2007). Many studies conducted previously shows that psychological capital has positive links with employee’s working environment and other organizational variables. Reports gained indicated that psychological capital plays an important role in combating challenges within organization as well as enhancing employee competencies (Rahimi et al., 2012; Mortazavi et al., 2012; Mahmoodvand, 2013; Alipoor et al., 2013; Gu, 2011; Madden, 2013).

Within business organization, a study done by Nafei (2015) investigating psychological capital (PsyCap) in relation to employee attitudes and performance shows a result that PsyCap is positively related with employee attitude, specifically in their job satisfaction and organizational commitment. Besides that, it was also found that higher the PsyCap will lead to more satisfaction, more commitment and high performance. Although the study was carried out within Egyptian context, the results obtained are parallel with the research conducted by (Luthans et al., 2007; 2008; Avey, et al., 2010; Seligman, 1998; Bandura, 1997; Stajkovic & Luthans, 1998; Bakker & Demerouti, 2006; Avey et al., 2009; Avey et al., 2010).

Meanwhile in educational organization, the findings are no different that what has been reported within business organization. Viseu and his colleagues did a research linking PsyCap and teacher’s motivation. The study found that PsyCap is strongly related with teacher’s motivation (Viseu et al., 2016). They concluded that, teacher’s motivation is based on their work satisfaction and by developing PsyCap within teacher’s self, they will be more satisfied with their job and hence their motivation will inclined. While Viseu and his colleagues looking at teacher’s motivation, another study was also done to explore the links between elements of PsyCap and teacher’s effectiveness. The study yield a result that PsyCap have an impact on teaching effectiveness and the higher the PsyCap is, the better the teacher performance in teaching. When teachers teach students, they can have the positive hope and optimism to work. If teachers face difficulties and challenges, they will have the resiliency to do. Therefore, their teaching effectiveness would be better.

The evidence from the study shows that PsyCap have positive links with one’s performance in their job, to which it can increase their motivation, satisfaction, commitment, ability to cope with pressure and problems and many other positive outcome.
Review Methodology
In order to address the review purpose, the following steps were taken: (1) identify inclusion and exclusion criteria for article selection, (2) identify the relevant work (search strategy), (3) data extraction and quality appraisal of the selected studies, and (3) summary, synthesis and interpretation of the findings (Khan, Kunz, Kleijnen, & Antes, 2003; Ryan, 2010; Siddaway, 2014; Strech & Sofaer, 2012). For the purpose of the review, the educational organization encompass all the people who are within the organization that include teachers, lecturers students and administration staff.

Inclusion and Exclusion Criteria
In selecting studies suitable for the review, the following selection inclusion and exclusion criteria were considered. Table 1 illustrates the criteria in detail.

Search Strategy
To capture as many relevant citations as possible, a wide range of published articles were searched using several electronic databases. The databases were ProQuest, EBSCOhost, Springer and Emerald Insight. All available articles up to 2018 were considered and the search was filtered to only for articles written in English. This effort resulted in 226 articles from which relevants studies were selected for the review. Their potential relevance was examined, and 131 were excluded as irrelevant. For the search, key words such as ‘Psychological capital OR PsyCap AND educational organizations OR teachers’ or ‘Psychological capital OR PsyCap AND education’ or ‘Psychological capital OR PsyCap development’ were used. Search details of the databases are reported in Table 2. The search was conducted on 703 articles on the ProQuest database, which resulted in 63 with key terms. An examination of 1401 articles on EBSCOhost resulted in identification of 95 articles. Among the 779 articles searched on the Springer database, 48 articles were identified. Out of 157 articles searched in Emerald, 20 articles were found relevant.
Table 1. Inclusion and Exclusion criteria

<table>
<thead>
<tr>
<th>Inclusion</th>
<th>Exclusion</th>
</tr>
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<tbody>
<tr>
<td>Research topic and scope of the research; is it relevant to the research question?</td>
<td>Research topic and scope not relevant to the research</td>
</tr>
<tr>
<td>Concepts and definitions of terms are relevant to research questions</td>
<td>Concepts and definitions of terms are not relevant to the research questions</td>
</tr>
<tr>
<td>Qualitative studies, quantitative studies, observations, case studies, experimental studies,</td>
<td>Articles without any concrete research design, e.g. concept papers, proposals</td>
</tr>
<tr>
<td>action research, reports on status of the topic relevant to research questions, conceptual and</td>
<td></td>
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<tr>
<td>theoretical frameworks</td>
<td></td>
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<tr>
<td>Studies on teachers, lecturers, students, administrative staff</td>
<td>Studies on people outside educational organization</td>
</tr>
<tr>
<td>Articles published till 2018</td>
<td></td>
</tr>
</tbody>
</table>

Table 2. Search Details

<table>
<thead>
<tr>
<th>Databases searched</th>
<th>Subheadings and key words used</th>
<th>Articles searched</th>
<th>Articles identified</th>
</tr>
</thead>
<tbody>
<tr>
<td>ProQuest</td>
<td>Psychological capital/Psycap</td>
<td>703</td>
<td>63</td>
</tr>
<tr>
<td></td>
<td>Psychological capital/Psycap in educational organisation</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Psychological capital/Psycap AND intervention AND development</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EBSCOhost</td>
<td>Psychological capital/Psycap</td>
<td>1401</td>
<td>95</td>
</tr>
<tr>
<td></td>
<td>Psychological capital/Psycap in academic setting AND development</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Psychological capital/Psycap AND development</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Springer</td>
<td>Psychological capital/Psycap</td>
<td>779</td>
<td>48</td>
</tr>
<tr>
<td></td>
<td>Psychological capital /Psycap in academic setting AND teachers</td>
<td></td>
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<td></td>
<td>Psychological capital/Psycap AND Students</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Emerald Insight</td>
<td>Psychological capital/Psycap</td>
<td>157</td>
<td>20</td>
</tr>
</tbody>
</table>
A step-by-step screening process further examined all studies identified. Figure 1 depicts the flow chart of the different stages of the literature search adopted from the PRISMA flow diagram (Moher, Liberati, Tetzlaff, Altman, & Group, 2009). The initial step was evaluating the relevance of the identified articles based on the titles and abstracts. A total of 226 articles were screened for relevance, out of which 131 abstracts were excluded based on the relevance to the review objectives. Among the remaining 95 records, 17 records were duplicates and omitted from the review, leaving 78 articles eligible for full screening. The next step is to screen the articles eligible to be reviewed. 33 articles were excluded based on several reasons. The reasons those articles were excluded to be reviewed is because (a) Using individual instrument of hope, optimism, self efficacy and resilience in the study and not PsyCap instrument and (b) written in language other than English. Based on the inclusion criteria, 45 articles with 42 quantitative studies and 3 qualitative studies were selected for data synthesis.

**Data Extraction**

The next step after identified the relevant articles to be reviewed was extraction. The types of data to be extracted are based on the review questions set ahead (Popay et al. 2006). This review aim at addressing the development and implementation of PsyCap within educational organization hence, relevant information to extract from the articles identified would include the sample population, the study setting, the study design as well as the interventions and the outcomes.
Results
The review were done based on several aspects which is the number of articles published over a 10 years period, countries to which the articles published, the outcome variables distribution in relation to psychological capital, the sample used in the study, the sample size and the research design and instrument used in the study. Reviewed articles suggest that from the total of 45 articles, 8 of the articles were published from China (Pan et al., 2015 & Wang, 2015; Shen et al., 2014; Yin et al., 2016; Ma, 2014 & Yan et al., 2016) following by the United States (Demerath et al., 2018; Goertzen & Whitaker, 2015; Luthans, Luthans, & Jensen, 2012; Luthans, Luthans, & Palmer, 2016; McDowell, Huang, & Caza, 2018; Selvaraj & Bhat, 2018) which has the second highest number of articles published relating to psychological capital in educational organization. Large number of studies done on PsyCap in educational organization are originated from Asian countries in which after China, Turkey has the most number of articles publish following by Pakistan Kaya et al., 2018; Cimen & Ozgan, 2018; Kalman & Summak, 2017; Kaur & Sandhu, 2016; Maitlo, Memon, & Syed, 2017; Pan et al., 2015; Pu et al., 2017; Rehman et al., 2017; Simsek, 2014; Tosten & Toprak, 2017; Tüzün, Çetin, & Basim, 2018; Wang, Mei, & Zhu, 2017; Yin et al., 2018; Yan, 2016; Ma et al., 2014 & Shen et al., 2014)
Looking at the year of publication, there is an increment in the number of articles published starting from the year 2008 until 2014. In 2015 however, less articles were published as compared to the previous years. The following years in 2016, shows the highest number of articles published within the period of 10 years the articles being reviewed. Fairly high numbers of articles published in 2017 but less number of articles were published in the year 2018.
The reviewed articles suggest that academic performance has been the most studied variable in relation to PsyCap (Fig. 4) (Carmona–Halty, Salanova, Llorens, & Schaufeli, 2018; Datu et al., 2016; Luthans et al., 2012; Luthans et al., 2016; Ortega-Maldonado & Salanova, 2018; Siu, Bakker, & Jiang, 2014; You, 2016). Besides academic performance, stress among teachers and students has also received the attention among researcher to explore its relation to PsyCap (Rodrigues et al., 2017; Gautam & Pradhan, 2018; Kaur & Amin, 2017; Kaur & Sandhu, 2016; Shen et al., 2014). The outcome of these studies shows that PsyCap is negatively correlated with stress and PsyCap moderate the relationship between stress and academic achievement. In the study that is conducted with teachers, it was found that teachers who have higher level of PsyCap shows lower rating of anxiety, depression and stress (Rodrigues et al., 2017) and PsyCap might be protective against depressive symptoms (Shen et al., 2014). In general, findings from the reviewed articles suggest that PsyCap is associate to a positive-related outcome and negatively linked to pathology and negative related variable (e.g., Stress, burnout).
Figure 4: Distribution of outcome variable in relation to PsyCap

Figure 5 shows the type of sample used in the study exploring the PsyCap with people within educational organization. Findings from the review suggest that university/college students has been selected in most studies following by teachers and lecturers while limited number of studies were done with administrative staff.

Figure 5: Participants selected in the study
Through the review, it was found that numerous studies used a large number of samples (Fig. 6), which are more than 400 in researching PsyCap with selected variables. This indicated that researcher has opt for a quantitative measure than getting in depth understanding through qualitative approach (Fig. 7). Out of the total number of the study reviewed, only 3 studies done qualitatively which suggest more qualitative research on PsyCap is needed.

![Sample size used in articles](image1)

**Figure 6: Sample size used in the study**

![Research Design and Instrument used](image2)

**Figure 7: Type of research design and instrument used in the study**
Research Gaps and Research Priorities

Taken together, the identified articles show that research on PsyCap within educational organization is still in its early stages and more study which looking at different variables is needed in order to get a great understanding about how this construct of PsyCap have and impact on individual. On the methodological part, studies done using qualitative design somehow limited with out of all the articles being reviewed, only three articles were identified done qualitatively. Those studies aims to get a deeper understanding about PsyCap by exploring the dimension of PsyCap (Demerath et al., 2018) gaining a greater insight into the factors that contribute to teachers’ PsyCap (Cimen & Ozgan, 2018) and exploring teachers’ perception to the effect of PsyCap through teacher-targeted intervention as means to enhance their positive psychological capacities (Kalman & Summak, 2017). Many of the other studies were based on self-report measure of which using the original 24-item Psychological Capital Questionnaire (PCQ), the shorter version of PCQ 12-item or the modified PCQ item (Ma et al., 2014; Safari, Mahmoodi, & Amirianzadeh, 2017; Selvaraj & Bhat, 2018; You, 2016) developed to suit the study objectives and participants selected for the study. Hence, future research should consider on adopting more qualitative research in order to get a different perspective of the PsyCap construct and how is the construct being developed within the people in educational organization. The choice of sample to be included in the study should also be varied and not limited to just teachers, lecturers and students. As noted from the review findings, only one study was done administrative staff (Williams, Kern, & Waters, 2015) while the other was done with students, teachers and university lecturers. More study on PsyCap should be done with principal, people who support the schools performance such as district officer, people who is working in ministry of education and et cetera. These people should be considered as the sample in order to get a more diversified findings of PsyCap as well as in depth understanding about this construct.

In addition, only few studies have been conducted in Southeast Asia countries, let alone Malaysia. No study on PsyCap so far, has been identified conducted in Malaysia. A lot of the studies have been done in the western context. This of course, suggests that study on PsyCap should be done considering Asian context, Malaysia specifically as it could potentially suggest an interesting finding.

Conclusion and Future Directions

This review examined published literature on the use and development of PsyCap within educational organization. Findings from the review revealed great promise of PsyCap as a way to flourish an individual as well as direct people to a positive outcome in work and life generally. The review also revealed a number of quantitative studies examining the relation of PsyCap to several variables and to see how it links to a positive outcome such as increase students’ academic performance, academic achievement, happiness, job satisfaction and etc rather than negative outcome. Qualitative studies on PsyCap however, were limited. Minimal attention has been directed towards how the construct of PsyCap is being developed within individual.

There is a need to understand individual experience in educational organization and to identify if they able to develop PsyCap that lead to a positive outcome such as greater life satisfaction, happiness, better work performance and etc. about PsyCap were develop is not well
documented. This should be considered as an essential research priority. More work needed to ensure psychological capacities needed by individual in educational organization.

Understanding how the construct of PsyCap is developed will contribute to the continuing discussion of positive psychology discipline. Examining the experience of people in educational organization is important to understand how people outside the industrial organization develop PsyCap and how it is crucial as psychological capacities that is needed to be develop in individual. Therefore, more studies are needed looking at the development of PsyCap in educational organization. Studies can be framed within the view of experiences, such as phenomenological study, analysis of multiple perspective and specific context that contribute to development of PsyCap. Such perspective will provide a better understanding of PsyCap construct and not just limited to the self-report measure.

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