Self-Perceived Performance-Based Training Needs of Senior Nurse Managers Working in United Christian Hospital: A Cross-Sectional Exploratory Study

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Introduction
An increasing demand for quality of clinical service and safety of clinical procedures in hospitals has become a burden to healthcare staff. Training resources is sometimes wrongly allocated and are inadequate to meet the nurses’ actual needs. No study was conducted to explore self-perceived training needs from senior level managers towards three domains: personal growth, professional development and services development. A cross-sectional survey study was conducted from 3rd to 23rd August 2015 in Hong Kong to explore self-perceived training needs from 62 senior nurse managers towards three domains: personal growth, professional development and services development. The findings suggested that senior level managers need a variety of trainings to achieve a high performed leader. The managerial performance characteristics was correlated to its training needs (r = -0.39, p = 0.002) and the professional performance characteristics was correlated to its training needs (r = -0.38, p = 0.003). Nursing professional development specialist can base on a structural training framework to meet their needs in the upcoming 3 years.

Keywords
Training needs, Senior nurse managers, Personal growth, Professional development, Service development

Abstract
An increasing demand for quality of clinical service and safety of clinical procedures in hospitals has become a burden to healthcare staff. Training resources is sometimes wrongly allocated and are inadequate to meet the nurses’ actual needs. No study was conducted to explore self-perceived training needs from senior level managers towards three domains: personal growth, professional development and services development. A cross-sectional survey study was conducted from 3rd to 23rd August 2015 in Hong Kong to explore self-perceived training needs from 62 senior nurse managers towards three domains: personal growth, professional development and services development. The findings suggested that senior level managers need a variety of trainings to achieve a high performed leader. The managerial performance characteristics was correlated to its training needs (r = -0.39, p = 0.002) and the professional performance characteristics was correlated to its training needs (r = -0.38, p = 0.003). Nursing professional development specialist can base on a structural training framework to meet their needs in the upcoming 3 years.

Keywords
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Training Needs Analysis (TNA) survey is commonly used to identify training needs. It is an effective method to determine who and what should be trained based on the perspective of users when planning in training and development [3]. The use of a TNA exercise can support the development of a fit-for-purpose programme of information skills training [4]. Although it was conducted to explore the overall training and educational needs of the nursing staff, it was based on the perspective of the senior management rather than the perceived needs from the nurses [5]. If organizations develop and organize training without recognizing a needs assessment, it may result in over training, under training or just missing the point all together [1]. Therefore, the TNA is a primary step to provide important information in the development of education programme in order to meet the demands of nurses [6]. Hence, the information can facilitate the design of a structural framework that guides senior management to organize appropriate education programmes.

Background

Hospital Authority (HA) has constructed a performance characteristic for senior level managers, such as Department Operation Manager (DOM), Nurse Consultant (NC), Senior Nurse Officer (SNO), and Ward Manager (WM) to review their performance development. A set of performance characteristics comprised of general managerial and professional performance characteristics are specific to assess the performance of the senior level managers [7].

From December 2013 to March 2014, a total of three focus group interviews composed of general manager (nursing), senior nurse officer, nurse consultant, department operation manager and advanced practice nurse were conducted. The research team chose this method because it enabled access to a number of nurses, and all data and ideas gathered could be explored, confirmed, reinforced or contradicted within the group at the same time [8,9]. A group size ranged from 8 to 12 nurses was chosen to ensure that group members had an opportunity for valuable input [8,9]. Trigger and open-end questions for the focus group interviews were formulated based on development directions of the Hospital Authority (HA) and United Christian Hospital (UCH), professional practice perceived from members on different levels of nurses, and issues raised in relevant literatures and refined by the research team. Each group had the same researcher and the third author who transposed the conversation in real time into a word document. Group dynamics were discussed and consensuses made by the second author and field notes were written immediately after each group. A document was sent out to the group members to validate the content of the conversations and the directions of trainings to be focused. Finally, three domains including professional development, personal growth and clinical services development were identified and incorporated into the performance characteristics framework developed by HA and training needs based on the existing available training programmes in UCH to develop a questionnaire for the study (Figure 1).

Figure 1: Design of the questionnaire for the study.
Aims of this Research

The aim of this study was to explore the performance characteristics training needs of senior level managers working in United Christian Hospital (UCH), a district public HA hospital in Hong Kong. The main objectives of this study were: (1) To explore the self-perceived performance characteristics of senior level managers; (2) To explore the self-perceived training needs on required performance characteristics including general, managerial, and professional performance from the senior level managers; (3) To understand the variation of training needs perceived from DOM/ NC/ SNO and WM, and (4) To formulate a performance characteristics professional development and training framework in UCH.

Methods

Research design

This is a cross-sectional exploratory study from 73 senior level managers including DOM, NC, SNO and WM, who were invited to complete a self-administered questionnaire from 3rd to 23rd August 2015 in UCH.

Participants

A total of 73 senior level managers were invited to take part in the study. Nurses who were part-time employment, and on leave including maternity leave, annual leave, study leave or no payment leave during the period of data collection were excluded. A 20-minute briefing session about the design of the study and instruction to fill in the questionnaire was given by the first author and third co-author prior to the period of data collection.

Ethical considerations

The study was approved by the Research Ethics Committee (Kowloon Central/Kowloon East) (KC/KE-15-0050/ER-2). Consent was implied by completion of the questionnaire. All participants were voluntary and had every right to participate or refuse without any reason. Anonymity was preserved for questionnaire distribution and collection. The protocol complied with the International Conference on Harmonisation - Guideline for Good Clinical Practice. To protect the privacy of respondents, all study data were handled in line with HA/Hospital’s policy in handling/storage/destruction. Electronic data were saved in secured computer of the hospital with restricted access. All the raw data will be destroyed after 3 years of the completion of the study.

Procedures

The focus of the study was to explore the performance characteristics and training needs from senior level managers directly. Therefore, the questionnaire was composed of three parts including demographic data, self-perceived performance characteristics, and self-perceived training needs. An additional part of training needs from the perspectives of DOM/SNC/SNO for WM was attached in the questionnaire.

Demographic data included gender, age, academic qualification, working unit, number of years in present unit, number of years in current rank and number of years in UCH. Three sub-performance characteristics categories including general, managerial, and professional performance for a total of 20 items were focused. The participants needed to rate from 1 (significant improvement in performance is essential to meet the required standard for the job) to 4 (frequently exceeds the required standard for the job).

Self-designed questionnaires of perceived training needs were employed for DOM, NC, SNO and WM with
The level of significance was set at $P < 0.05$. A sample size of 70 was estimated using a confidence level at 95% in a confidence interval of 5.0% in an exact population size of 86 DOMs, NCs, SNOs and WMs [18].

Validity and reliability

It is indispensable to measure and report the content validity of questionnaires because of a creation of confidence in measurements of the variables of interest [19]. The questionnaires had undertaken a content validity by three senior nurses to ensure a satisfactory level of content validity scale, rating from 1 (irrelevant), 2 (somewhat relevant), 3 (relevant), to 4 (very relevant) [20,21]. The degree of relevance among the domains, the competencies and the training needs in the questionnaire was indicated by a former principal of Institute of Advanced Nursing School, a Chief Nursing Officer (Nursing Education) and MT. The three senior nurses and another seven nurses who worked in NSD as an Executive Partnership (EP) were invited to conduct face validity so that the questionnaire appeared to be appropriate to the study purpose and content [21]. Mean relevance scores of each training need was calculated. It was compromised amongst researchers that the mean score of a training need should be at least 3.0 to justify inclusion into the questionnaire. CVI was calculated for each item under various competencies and for the overall questionnaire. Regarding conciseness, design, information, content and understandability of the two questionnaires, the results from the expert panel yielded an overall CVI of 3.8. Test-retest reliability was estimated by completing the same tool by the first author and the

Data analysis

Statistical analysis was performed using the SPSS 23.0 statistical software for Windows (IBM Corp. Released, Armonk, NY, USA, 2015) [17]. The data files were checked for discordant values and contraindications by the first author and a statistician not involved in the study. Descriptive data analysis for nominal variables and ordinal variables were expressed in frequencies and per cents whereas continuous variables were expressed in means and standard deviations. The t-test was used for evaluating the difference of self-perceived performance and training needs in terms of year of experience with less than 5 from equal to or more than 5. Correlation test was used to determine the consistence between self-perceived performance and training needs.
forth co-author in an interval of one week. A Cronbach’s alpha of more than 0.70 was considered good consistency [22]. The Cronbach’s alpha for the general, managerial, and professional performance characteristics were 0.96, 0.93, and 0.94 respectively.

Results

The response rate from DOM/NC/SNO/WM of the study was 84.9%. All questionnaires from the above ranks were valid for the purposes of the study. The distribution of working experience in current rank of DOM/NC/SNO/WM was shown in the Figure 2.

Mean of managerial performance characteristics was the lowest amongst other performance characteristics so as to acquire the highest training needs on this area (Table 1). A correlation test between self-perceived performance characteristics and training needs was performed. The managerial performance characteristics was correlated to the training needs under this characteristics ($r = -0.39$, $p = 0.002$) and the professional performance characteristics was correlated to the training needs under this characteristics ($r = -0.38$, $p = 0.003$).

Self-perceived performance characteristics

The overall mean of self-perceived performance characteristics was 3.03. The means of general, managerial, and professional performance characteristics were 3.06, 2.87 and 3.14 respectively. The performance items including organizing, problem solving and decision making, innovation, and communication (verbal and written) under general performance characteristics were necessary to be improved in order to meet the required standard for the job when comparing to the overall mean of self-perceived performance characteristics. Foresight, leadership, supervision/management of staff, planning and control, and use of resources under managerial performance characteristics as well as judgment under professional performance characteristics was necessary to be improved when comparing to the overall mean of self-perceived performance characteristics (Figure 3, Figure 4 and Figure 5).

Self-perceived training needs

The overall mean of self-perceived training needs was 6.5. The means of training needs under general, managerial, and professional performance characteristics were 6.6, 6.77 and 6.14 respectively. Senior level managers reflected that they needed more training on the areas such as media management, creating and leading a culture of innovation, overseas study visit, presentation skills to public/patients,

Table 1: Comparing self-perceived performance characteristics and self-perceived training needs with the number of year in present rank.

<table>
<thead>
<tr>
<th>Performance characteristics</th>
<th>&lt;= 5 years</th>
<th>&gt; 5 years</th>
<th>Statistical analysis</th>
</tr>
</thead>
<tbody>
<tr>
<td>General</td>
<td>mean</td>
<td>SD</td>
<td>mean</td>
</tr>
<tr>
<td>General</td>
<td>3.03</td>
<td>0.4</td>
<td>3.09</td>
</tr>
<tr>
<td>Managerial</td>
<td>2.77</td>
<td>0.53</td>
<td>3.01</td>
</tr>
<tr>
<td>Professional</td>
<td>3.10</td>
<td>0.44</td>
<td>3.21</td>
</tr>
<tr>
<td>Training needs under general</td>
<td>6.74</td>
<td>1.49</td>
<td>6.27</td>
</tr>
<tr>
<td>Training needs under managerial</td>
<td>6.97</td>
<td>1.69</td>
<td>6.46</td>
</tr>
<tr>
<td>Training needs under professional</td>
<td>6.16</td>
<td>2.0</td>
<td>6.10</td>
</tr>
</tbody>
</table>

Figure 3: Mean of performance under general performance characteristics.
perspectives of DOM/NC/SNO on WM was 73.37%. WMs should receive the trainings of complaint management, influencer training, decision making and analytical skills (advanced level) under general performance characteristics, as well as constructive collaboration, developing professional assertiveness and confidence, team alignment, advanced writing, motivational interviewing, creating and leading a culture of innovation, gaps bridging, and competency-based interviewing skills under general performance characteristics when comparing the overall mean of percentage of training needs from their perspectives. WM needed to receive the trainings related to employee engagement, mediation and conflict management, leading & managing change, performance management, leadership greatness, and authentic & transformational leadership under managerial performance characteristics.

Training needs perceived by DOM/NC/SNO on WM

The overall percentage of training needs from the perspectives of DOM/NC/SNO on WM was 73.37%. WMs should receive the trainings of complaint management, influencer training, decision making and analytical skills (advanced level), constructive collaboration, developing professional assertiveness and confidence, team alignment, advanced writing, motivational interviewing, creating and leading a culture of innovation, gaps bridging, and competency-based interviewing skills under general performance characteristics when comparing the overall mean of percentage of training needs from their perspectives. WM needed to receive the trainings related to employee engagement, mediation and conflict management, leading & managing change, performance management, leadership greatness, and authentic & transformational leadership under managerial performance characteristics.

**Training Needs Perceived by DOM/NC/SNO on WM**

- Supervision/management of staff: 2.98
- Use of resources: 2.94
- Leadership: 2.94
- Planning and control: 2.82
- Foresight: 2.66

**Figure 4:** Mean of performance under managerial performance characteristics.

- Professional ethics: 3.37
- Commitment to patient care: 3.27
- Application of knowledge: 3.11
- Mentorship: 3.05
- Professional development/technical expertise: 3.03
- Judgment: 3.02

**Figure 5:** Mean of performance under professional performance characteristics.
1.00    2.00  3.00    4.00    5.00   6.00    7.00   8.00    9.00   10.00

**Figure 6:** The mean of self-perceived training needs under general performance characteristics.

**Figure 7:** The mean of self-perceived training needs under managerial performance characteristics.
were prone to be insufficient in performing supervision and management of staff ($t = 2.61$, $df = 60$, $p = 0.011$) (Figure 12).

**Comparison of significant difference of self-perceived training needs by number of year in their present unit**

Senior managers who had worked in their present unit for fewer years also needed to learn how to prepare their professional portfolios and to become a good mentor under professional performance characteristics (Figure 9, Figure 10 and Figure 11).

**Figure 8:** The mean of self-perceived training needs under professional performance characteristics.

**Figure 9:** The mean of percentage of training needs from the perspectives of senior nurse managers on ward managers under general performance characteristics.

**Figure 10:** The mean of percentage of training needs from the perspectives of senior nurse managers on ward managers under professional portfolio.

**Figure 11:** The mean of percentage of training needs from the perspectives of senior nurse managers on ward managers under mentorship.
A professional development and training framework on performance for senior level managers was developed according to the overall mean of self-perceived training needs (Table 2).

Discussion

A high response rate (84.9%) of this study revealed that senior level managers were eager to reflect their self-perceived performance characteristics and training needs. Senior managers who had worked in their current rank for less than 6 years required more training on creating and leading a culture of innovation ($t = 2.10$, $df = 60$, $p = 0.04$) (Figure 14).

**Professional development and training framework on performance characteristics for senior level managers**

A professional development and training framework on performance for senior level managers was developed according to the overall mean of self-perceived training needs (Table 2).
formance and training needs of themselves and others so that a succession plan can be developed based on the study.

Senior level managers with less than six years of experience in UCH accounted for 59.7 percent of this staff group. It implied that a large training opportunity is present to train them up as an effective leader in future. In this study, most of them needed training in the areas of leadership, supervision, staff and resource management, planning, and innovation that were underscored enough. It reflected that although they had demonstrated an open-minded attitude to express their opinion and increased recognition of the study that influenced their professional development and service development. In addition, it may be partly related to the strategy that senior level managers were given a plenty of time to complete the questionnaire during regular senior management meeting. It also reflected that senior level managers intended to apprehend the actual performance and training needs of themselves and others so that a succession plan can be developed based on the study.

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There were few studies which examined the training needs of senior level managers and only a closely relevant study was identified. The design of the study adopted initial interviews with clinical nurse managers to provide in-depth, qualitative data [25]. However, the study was prone to focus on continuous professional development and job satisfaction enhancement that are self-centered. It requires nurses at different levels to improve the educational status of health professionals in order to meet these expectations [26]. Therefore, a variety of patient services led to many opportunities for professional development and experience exposure in different specialties. In other words, training programmes are also required to accommodate service development to meet patients’ needs.

Figure 13b: Comparison of significant difference of self-perceived training needs by number of year in their present unit - managerial performance characteristics.

In a senior management position, the inadequate performance characteristics have been implied by comparing to the group of senior level managers over five years of experience that the younger senior level managers perceived lower mean of managerial performance characteristics (1.77) and higher mean of managerial training needs (6.97). These characteristics are essential in sustaining supportive workplaces and building the capacity and resilience of nursing workforces [23]. Moreover, a competent senior level manager shall strive to perform effective professional and high-quality care for other clinical managers and frontline nurses [24]. As a result, these trainings are necessary to be emphasized for young senior level managers.
this research study to explore continuing education program development, redesign the existing training systems, and plan training strategically. Through the study, senior level managers examine their learning needs and their career development in their specialties. The effective functioning of the healthcare system, on the other hand, is highly dependent on a competent health services management workforce [28]. We indeed require an effective tool to study the financial implications of workforce and dynamic changes of manpower. However, the effectiveness of the current healthcare management workforce is influenced by health reforms, the aging of one’s country health workforce, and health systems [28]. These factors preclude the training planning unless we understand the real training needs from staff’s perspectives. This study has guided the nursing professional development specialists to enhance their competences and performance characteristics for respective trainings for senior level managers so as to prevent mis-allocation of resources. We address their needs to provide related training accordingly; for example, media management training that ranked the highest need has not been held before and we may invite

A nursing professional development specialist has, undoubtedly, a role on successful succession planning, managing competing priorities, and effecting cost avoidance [27]. Having a leadership role, we intend to conduct

Table 2: A professional development and training framework on performance for senior level managers.

<table>
<thead>
<tr>
<th>Performance sub-characteristics</th>
<th>Training Needs (descending order starting from the most needs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relations with public/patients</td>
<td>Media management</td>
</tr>
<tr>
<td>Planning and control</td>
<td>Advanced Negotiation strategies</td>
</tr>
<tr>
<td>Innovation</td>
<td>Creating and leading a culture of innovation</td>
</tr>
<tr>
<td>Use of resources</td>
<td>Finance for executives</td>
</tr>
<tr>
<td>Leadership</td>
<td>Strategic talent management</td>
</tr>
<tr>
<td>Use of resources</td>
<td>Strategic human resources management</td>
</tr>
<tr>
<td>Innovation</td>
<td>Overseas Study visit</td>
</tr>
<tr>
<td>Relations with public/patients</td>
<td>Presentation skills to public/patients</td>
</tr>
<tr>
<td>Leadership</td>
<td>Power, politics &amp; empowerment</td>
</tr>
<tr>
<td>Communication (verbal and written)</td>
<td>Influencer training</td>
</tr>
<tr>
<td>Leadership</td>
<td>Leading &amp; managing change</td>
</tr>
<tr>
<td>Leadership</td>
<td>Authentic &amp; transformational leadership</td>
</tr>
<tr>
<td>Supervision/management of staff</td>
<td>Employee engagement</td>
</tr>
<tr>
<td>Supervision/management of staff</td>
<td>Mediation and conflict management</td>
</tr>
<tr>
<td>Relations with public/patients</td>
<td>Complaint management</td>
</tr>
<tr>
<td>Communication (verbal and written)</td>
<td>Motivational interviewing</td>
</tr>
<tr>
<td>Leadership</td>
<td>Leadership greatness</td>
</tr>
<tr>
<td>Communication (verbal and written)</td>
<td>Competency-based interviewing skills</td>
</tr>
<tr>
<td>Problem solving and decision making</td>
<td>Decision making and analytical skills (advanced level)</td>
</tr>
<tr>
<td>Leadership</td>
<td>Building social capital</td>
</tr>
<tr>
<td>Teamwork</td>
<td>Gaps bridging</td>
</tr>
<tr>
<td>Professional development/technical expertise</td>
<td>Professional portfolio</td>
</tr>
<tr>
<td>Teamwork</td>
<td>Team alignment</td>
</tr>
<tr>
<td>Commitment to quality service</td>
<td>Quality tools</td>
</tr>
<tr>
<td>Supervision/management of staff</td>
<td>Performance management</td>
</tr>
<tr>
<td>Relations with public/patients</td>
<td>Developing professional assertiveness and confidence</td>
</tr>
<tr>
<td>Commitment to quality service</td>
<td>Advanced evidence-based practice</td>
</tr>
<tr>
<td>Organizing</td>
<td>Constructive collaboration</td>
</tr>
<tr>
<td>Organizing</td>
<td>Project management</td>
</tr>
<tr>
<td>Communication (verbal and written)</td>
<td>Advanced writing</td>
</tr>
<tr>
<td>Supervision/management of staff</td>
<td>Motivation and empowerment</td>
</tr>
<tr>
<td>Problem solving and decision making</td>
<td>Stress management</td>
</tr>
<tr>
<td>Supervision/management of staff</td>
<td>Clinical leadership &amp; management skills enhancement (ANE workshop)</td>
</tr>
<tr>
<td>Mentorship</td>
<td>Mentorship</td>
</tr>
</tbody>
</table>

Figure 14: Comparison of significant difference of self-perceived training needs by years in their current rank - general performance characteristics.
appropriate speaker to deliver the training for senior managers. Thus, it can better support senior level managers in achieving their role within healthcare systems [29].

A key strength of the study was to analyse self-perceived performance characteristics and training needs towards different domains including personal growth, service development and professional development. Based on the discussion of the focus group, the three domains identified are the core elements to guide nurses on how to achieve the performance characteristics. In the past, NSD provided few training sessions related to personal growth which describes people’s change and development throughout the life span [15]. Personal growth is highly related to role modelling and being used as a resource [30]. Through the study, we understand what kind of trainings should be given in order to balance their work life. Respondents may also learn what they should change through taking part in the TNA periodically which acts as transactional analysis and a systematic psychotherapy for personal growth and personal change [31].

In future, the training needs analysis survey should be conducted periodically so as to monitor the dynamic changes of training needs perceived by senior level managers. Staff attrition, promotion, and recruitment are absolutely influential in the actual training needs. In addition, the analysis of training needs especially in evaluation should not stop when the framework is structured and implemented [32]. A full scope of evaluation is employed to facilitate on-going analysis. Educator needs to measure outcomes that provide data for future TNAs.

Implications

A middle level manager requires actual training needs based on self-perceived performance characteristics but does not require a top-down training plan. This study identified a variety of trainings that could improve the process of general, managerial, and professional development thus supporting DOM/NC/SNO and WM in achieving their role within health-care systems in UCH. Moreover, it is an imperative to identify a gap of what a leader should require to develop a succession plan at different levels.

Limitations

Although this study had identified essential training needs for senior level managers, they need to be interpreted in light of some limitation in this study. Many training programmes have been listed in the questionnaire but some are not included. Nevertheless, respondents might write down other training needs they intend to have.

On the other hand, there are different ways to collect relevant information from nursing staff. Norman, et al. (2004) [33] illustrated some examples, such as practice experience, reflection, questioning, practice audits, self-assessment tests, peer interview and other sources. As it was considered that a structural training framework should be designed in the upcoming years, a survey is the most appropriate TNA data collection tool. Some argued that a questionnaire including lists of training needs as options might shape the respondents to consider the itemized training needs solely and neglect other potential trainings. This issue was brought to discuss in our study panel and came to a conclusion that such questionnaire design could stimulate and guide the respondents to perceive their training needs based on the three major domains despite the preconceived bias and notions of the research team probably.

The rating of training needs on subordinates was limited to using a dichotomous response format because the number of WMs was relatively lower compared to other ranks. Another limitation of the study is its small sample size of senior nurse manager, which was focusing on one public hospital in Hong Kong only, recruited through convenience sampling.

Conclusions

The findings of this study suggest that senior nurse managers need relevant education on relations with public/patients, planning and control, innovation, leadership, use of resources, communication (verbal and written), and supervision/management of staff to enhance professional nursing practice and support achievement of career goals. Evidently, senior nurse managers with less than 6 years of experience require more education on some specific areas. In light of this study, the nursing professional development specialist can develop the framework for education and professional development to meet senior level managers’ needs in the upcoming 3 years.

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Conflict of Interest

No conflict of interest has been declared by the authors.

References


