How to cite this article:

ABSTRACT
Objective: To assess whether there are differences in psychological empowerment between different health professionals working in a teaching hospital.
Method: A comparative, quantitative, and cross-sectional study carried out with 165 professionals selected at random and who worked in a teaching hospital in the inland of the state of São Paulo. The participants were divided into three groups: 1) nurses, 2) physicians, and 3) other professionals (physiotherapists, psychologists, pharmacists, speech therapists, social workers, and nutritionists). For data collection, a form was used to characterize the sample, as well as the Brazilian version of the Psychological Empowerment Instrument. To compare the scores between the three groups, the Kruskal-Wallis test was used, followed by Dunn’s post-test.
Results: Nurses, physicians, and other professionals scored 71.4; 69.3, and 71.1 points (p=0.5959), respectively, in the total score of the instrument.
Conclusion: There are no statistically significant differences in the perception of psychological empowerment of different health professionals.

Keywords: Power, psychological. Health personnel. Clinical competence. Nursing.

RESUMO
Objetivo: Avaliar se existem diferenças no empoderamento psicológico entre os diferentes profissionais da saúde que atuam em um hospital de ensino.
Método: Estudo comparativo, quantitativo e transversal, realizado com 165 profissionais selecionados de maneira aleatória e que atuavam em um hospital de ensino do interior de São Paulo. Os participantes foram distribuídos em três grupos: 1) enfermeiros, 2) médicos e 3) outros profissionais (fisioterapeutas, psicólogos, farmacêuticos, foniatras, assistentes sociais e nutricionistas). Para a coleta de dados foi utilizada uma ficha para caracterizar a amostra e a versão brasileira do Psychological Empowerment Instrument. Para comparação dos escores entre os três grupos foi utilizado o teste de Kruskal-Wallis, seguido pelo pós-teste de Dunn.
Resultados: Os enfermeiros, médicos e outros profissionais obtiveram, respectivamente, médias de 71,4; 69,3 e 71,1 pontos (p=0,5959) no escore total do instrumento.
Conclusão: Não existem diferenças estatisticamente significativas na percepção do empoderamento psicológico dos diferentes profissionais da saúde.

INTRODUCTION

The word empowerment has different meanings in different areas of knowledge, being related to the meaning of control and security over certain attitudes. The concept of empowerment originated in the twentieth century, in developed countries, from the struggles for civil rights and the feminist movement. In the 1970s, it was influenced by self-help movements[1].

From the 1980s on, empowerment was greatly influenced by community psychology and the management area, being used until today as a tool to delegate authority and responsibility in decision-making, consolidating the role of people and teams, decentralizing power, providing more autonomy, increasing employee engagement, and strengthening relationships of trust among the professionals[2-3].

However, it is important to differentiate between structural and psychological empowerment, as the first is related to the support of resources, information, and conditions that provide learning and professional growth; psychological empowerment, on the other hand, involves the professionals' involvement with their practice environment, that is, how much they are committed and/or motivated to work[4].

With regard to nursing, this commitment and motivation can be compromised due to the history of the profession. Until today, nurses face gaps in continuing education, devaluation, lack of recognition, low pay, inequality, and inadequate work opportunities, evidenced by the insufficient number of professionals[5]. However, the nursing team plays a fundamental role in health care, as it is present even when other professionals are not[6].

A number of studies show that empowered professionals are more satisfied and have more autonomy and confidence to make decisions[7-8], factors that can contribute to improving the quality of care and, therefore, if the team who makes up the health workforce[9] feels little or less empowered than the other professionals they work with, organizational results can be seriously compromised.

Considering that nursing is historically undervalued and little recognized, the question that guided this study was the following: Do nurses feel less empowered in the role they play when compared to other health professionals? Given the above, this study aims to assess whether there are differences in psychological empowerment between different health professionals working in a teaching hospital.

METHODS

This is a comparative, quantitative, and cross-sectional study conducted in all the sectors of a teaching hospital in the inland of the state of São Paulo, which has specialized tertiary level services, financed by the United Health System.

The sample consisted of health professionals with higher education who agreed to participate in the research and met the following inclusion criteria: being a nurse, physician, physiotherapist, psychologist, pharmacist, speech therapist, social worker, or nutritionist. Teachers and medical students were excluded from the sample.

Considering that the population of nurses (267) and physicians (338) was considerably higher than that of other professionals [physiotherapists (53), psychologists (2), pharmacists (20), speech therapists (6), social workers (24), and nutritionists (12)], it was decided to divide the sample into three groups: 1) nurses, 2) physicians, and 3) other specialists, and hence the sample size was calculated considering the objective of comparing the three groups.

The methodology of a sample calculation for an ANOVA model was used for the calculation. In this calculation, a significance level of 5%, a test power of 80%, and an effect size equal to 0.25 were established. The calculation resulted in a minimum sample of 159 individuals, 53 per group. From that moment on, a simple random sampling was adopted, stratified by group.

For data collection, a form was used to characterize the sample, as well as the Brazilian version of the Psychological Empowerment Instrument (PEI)[10]. The characterization form addressed personal (age, gender, marital status) and professional (training, length of experience in the job and in the institution, position, unit of work, work shift, and existence of another employment contract) questions.

The PEI aims to obtain a multidimensional measure of psychological empowerment in the workplace through 12 items divided into four domains: meaning, competence, self-determination, and impact.

The meaning domain (items 2, 5, and 10) concerns the objective of the work, as well as the balance between the requirements of the job and the professionals' beliefs, values, and conducts. Competence (items 1, 9, and 12) is related to the individuals’ confidence in carrying out their activities effectively and meeting the expectations of the institution. The self-determination domain (items 3, 7, and 8) represents the professionals’ autonomy in the work process. The impact domain (items 4, 6, and 11) shows the level to which the professionals can influence the results in the work environment[10].

These items are assessed by a seven-point Likert scale ranging from one (strongly disagree) to seven (strongly agree); where the higher the score, the greater the psychological empowerment. Four is considered a neutral score and the mean of the sum of the participants’ answers is used to calculate the score. The score for each domain can vary.
between three and 21 points, and the total score ranges between 12 and 84 points (16).

Data collection was carried out in February and March 2019. The employees were approached individually in their workplaces. Those who met the inclusion criteria were informed about the objectives of the research and received the data collection instruments. The researchers waited for them to be filled out.

The data were tabulated in Microsoft Excel – Windows XP® and analyzed by a statistician using the Statistical Analysis System® (SAS), version 9.4, and the Statistical package for the Social Sciences® (SPSS), version 22.

A descriptive analysis was performed with presentation of absolute and relative frequencies of the qualitative variables and measures of position and dispersion of the quantitative variables (mean and standard deviation). To compare the scores between the three sample groups, the p-value was obtained using the Kruskal-Wallis test, followed by Dunn’s post-test. The correlations between the quantitative variables were assessed using Spearman’s correlation coefficient. A significance level of p ≤ 0.05 was considered for analysis.

To carry out the study, the researchers requested that all the participants sign the Free and Informed Consent Form, and the regulatory guidelines and standards for research with human beings described in Resolution 466/12 of the National Health Council were observed. The project was approved by the Research Ethics Committee under Opinion No. 3,032,851 on November 22nd, 2018.

## RESULTS

A total of 165 health professionals participated in the study; they had a mean age of 43.1 ± 10.5 years old, length of experience in the job of 14.9 ± 10.5 years, and length of experience in the institution of 13.9 ± 10.3 years. The majority were female (112; 67.9%) and married (108; 65.5%), and 107 (64.8%) had only one employment contract. Among the participants, 71 (43.0%) had a lato sensu Graduate Degree and 73 (43.0%) worked in critical sectors of the hospital (Intensive Care Units, Operating Room, and Emergency Room). The other characteristics of the sample were presented in Table 1.

The assessment and comparison of psychological empowerment between the different categories of health professionals are shown in Table 2.

To assess the difference between the groups with regard to competence (p = 0.0046), Dunn’s post-test was applied and it was verified that there is a statistically significant difference only between nurses and other professionals, demonstrating that the ‘other professionals’ consider themselves more competent than the nurses.

When comparing the dimensions of the instrument with the personal and professional characteristics of the sample, a significant difference was found between the domain of competence and the ‘another employment contract’ variable, showing that professionals with a double contract feel more competent when compared to those who have only one (p = 0.0479).

The quantitative variables were correlated with the dimensions of psychological empowerment and it was verified that, the older the age (r = 0.1908, p = 0.0141) and the longer the time working in the institution (r = 0.1872, p = 0.0161), the greater the empowerment of the professional.

## DISCUSSION

The data evidenced that, when comparing psychological empowerment between different health professionals, no statistically significant differences were found.

The results surprised the researchers, as the expectation was to find lower levels of empowerment in the group of nurses and higher levels among the physicians, as they are the group of health professionals that concentrates more power and exercises their practice with autonomy (7).

In addition, Nursing is a profession that has a historical culture of subordination, plays a more operational role, and is not involved in decision-making and, therefore, has little visibility and recognition in society (8).

A possible explanation for the findings that contradicted our hypothesis can be related to the institution’s organizational chart, in which nurses are not subordinate to physicians (9). The fact that the study was carried out in a reference institution, considered one of the largest university hospitals in Brazil, which, in addition to providing excellent care, has the mission of producing scientific knowledge and training and qualifying human resources, may also have contributed for the nurses to perceive a more autonomous practice.

In the analysis of the domains, Meaning received the highest score for physicians and nurses. When evaluating research studies on empowerment conducted with nurses in Turkey (10), United States of America (11), and Canada (12), similar results were also found.

In this domain, the items describe the self-perception of the importance of the work performed. With regard to the physicians, a study points to the question of the hegemony of the medical discourse in relation to other health professionals (7, 10) and, when addressing Nursing, although it is still considered a devalued profession (13), the researchers state that this class is essential because, in addition to
Table 1 - Personal and professional characteristics of the sample. Campinas, SP, Brazil, 2019 (n=165)

<table>
<thead>
<tr>
<th>Variable</th>
<th>n</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Marital status</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Married</td>
<td>108</td>
<td>65.5</td>
</tr>
<tr>
<td>Single</td>
<td>39</td>
<td>23.6</td>
</tr>
<tr>
<td>Divorced</td>
<td>11</td>
<td>6.7</td>
</tr>
<tr>
<td>Widow/Widower</td>
<td>7</td>
<td>4.2</td>
</tr>
<tr>
<td><strong>Function</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nurse</td>
<td>56</td>
<td>33.9</td>
</tr>
<tr>
<td>Physician</td>
<td>54</td>
<td>32.7</td>
</tr>
<tr>
<td>Others</td>
<td>55</td>
<td>33.3</td>
</tr>
<tr>
<td><strong>Sector</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Critical</td>
<td>63</td>
<td>38.2</td>
</tr>
<tr>
<td>Wards</td>
<td>50</td>
<td>30.3</td>
</tr>
<tr>
<td>Outpatient</td>
<td>21</td>
<td>12.7</td>
</tr>
<tr>
<td>Others</td>
<td>31</td>
<td>18.8</td>
</tr>
<tr>
<td><strong>Training</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Graduation</td>
<td>25</td>
<td>15.2</td>
</tr>
<tr>
<td>Specialization</td>
<td>50</td>
<td>30.3</td>
</tr>
<tr>
<td>Internship</td>
<td>21</td>
<td>12.7</td>
</tr>
<tr>
<td>Master's degree</td>
<td>39</td>
<td>23.6</td>
</tr>
<tr>
<td>PhD</td>
<td>30</td>
<td>18.2</td>
</tr>
<tr>
<td><strong>Work shift</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Morning</td>
<td>34</td>
<td>20.6</td>
</tr>
<tr>
<td>Afternoon</td>
<td>23</td>
<td>13.9</td>
</tr>
<tr>
<td>Night</td>
<td>31</td>
<td>18.8</td>
</tr>
<tr>
<td>Others</td>
<td>77</td>
<td>46.7</td>
</tr>
</tbody>
</table>

Source: Research data, 2019.
Table 2 - Comparison of psychological empowerment between the different professions. Campinas, SP, Brazil, 2019 (n=165)

<table>
<thead>
<tr>
<th>Domains</th>
<th>Nurses (n=56)</th>
<th>Physicians (n=54)</th>
<th>Others (n=55)</th>
<th>p-value†</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mean</td>
<td>SD*</td>
<td>Mean</td>
<td>SD*</td>
</tr>
<tr>
<td>Meaning</td>
<td>18.9</td>
<td>2.4</td>
<td>19.2</td>
<td>2.4</td>
</tr>
<tr>
<td>Competence</td>
<td>18.8</td>
<td>2.3</td>
<td>19.2</td>
<td>2.6</td>
</tr>
<tr>
<td>Self-determination</td>
<td>17.2</td>
<td>2.9</td>
<td>15.8</td>
<td>3.8</td>
</tr>
<tr>
<td>Impact</td>
<td>16.6</td>
<td>3.3</td>
<td>15.2</td>
<td>3.5</td>
</tr>
<tr>
<td>Empowerment</td>
<td>71.4</td>
<td>8.7</td>
<td>69.3</td>
<td>10.2</td>
</tr>
</tbody>
</table>

Source: Research data, 2019.
*SD: Standard Deviation; †p-value obtained my means of the Kruskal-Wallis test.

the patients, they also take care of the needs of the family members during the hospitalization period."Therefore, it is possible to infer that nurses must be starting to realize the greatness of their work.

In all the professional categories, the Impact domain received the lowest score. Although the professionals believe that their work is important, that they are competent and self-determined, they believe that they do not exercise as much influence and control over the processes carried out in the unit. It is worth mentioning that this research was carried out in a teaching hospital, in which the teachers, especially physicians, have great influence on the decision-making process and, perhaps because of this, the professionals believe they do not have due recognition from their peers(13).

The "other professionals" category reached the highest score in the Competence domain. Despite being outnumbered in the health care team, these professionals have been empowered about the importance of their roles, as the configuration of the employment relationships is evolving over time and the multidisciplinary team has been increasingly recognized in the construction of new health practices(7).

The fact that the nurses feel less competent in relation to some members of the multidisciplinary team shows that there may be points of vulnerability both in relation to educational issues in the training of nurses and in relation to inadequate work opportunities(5).

In the nurse's work process, in addition to the care role, the management aspect(16) stands out, which causes these professionals to be under pressure from other nurses, other health professionals, and even from leaders of the institutions, to mobilize and articulate the necessary resources for the provision of care(17).

However, these resources are not always available considering the difficulties of replacement, purchasing materials, and hiring staff imposed on the Brazilian public services(17), a fact that contributes even further to the distress of the nurses(17,18), who are unable to meet the requests of the teams, and even of the patients themselves.

In addition, the insufficient number of nurses(16,19) and the articulating role they play in the health team(18) influence the pace of execution of the activities, demanding that they become more flexible and versatile(16).

All these factors can cause negative impacts on patient safety, quality of care(16), and on all the dimensions of the psychological empowerment experienced by the professionals, imposing a great challenge to be overcome.

As a result of the precariousness of the nursing work and of the recognition of the importance of the role of nurses in the composition of the multidisciplinary team, a global movement for the appreciation of the profession was started, with its greatest exponent being the Nursing Now campaign. This initiative aims to improve health outcomes by raising the status of nursing as a profession(20) and has set the goals of increasing investments in education and professional development, improving working conditions, involving nurses in the health policies, and increasing the number of nurses in leadership positions(3).

In assessing the relationship between the domains of the instrument and the personal and professional characteristics of the sample, it was possible to notice that the professionals...
with two employment contracts felt more empowered, and this may refer to the accumulated experience that contributes to the individuals having more autonomy and control in their actions and initiatives, making their own choices. In addition, age and time working in the institution were also related to the feeling of greater empowerment, demonstrating that maturity and familiarity with the work environment can contribute to autonomy and, consequently, to decision-making.

**CONCLUSION**

In view of the results presented, it was possible to verify that there are no differences between the professional categories with regard to psychological empowerment.

The main limitation of this research lays in the fact that it was carried out in a single university hospital that does not reflect the entire Brazilian reality. This study contributed to demonstrate that reference hospitals, focusing on the excellence of care and on the qualification of their professionals, promote a more autonomous practice for nurses, which contributes to their empowerment. However, it was possible to notice that the goals of the Nursing Now campaign show its urgency in view of the results found, when the domains are evaluated separately.

For the expansion of the population's access to qualified health professionals and the incorporation of new models of care provided in a holistic way and focused on the patient, investments in training, development, and regulation of the working conditions are fundamental for the education and qualification of nurses for this new reality.

New research studies that evaluate the empowerment of the health professionals, especially nurses, both in public and private institutions, should be carried out in order to verify whether the high level of training reported by the participants in this study influenced the perception of their psychological empowerment, in addition to contributing to the implementation of strategies that boost the empowerment of these professionals and, consequently, the improvement of institutional results.

**REFERENCES**


Acknowledgment:
To the Student Support Service of the Universidade Estadual de Campinas for the scholarship granted.

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