The Role of Transformational Leadership toward Work Performance through Intrinsic Motivation: A Study in the Pharmaceutical Field in Vietnam

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Abstract

The study aims to identify the role of transformational leadership toward work performance through intrinsic motivation in pharmaceutical field by a survey of 220 pharmacists in Vietnam. The pharmaceutical industry in Vietnam is experiencing rapid growth, accompanied by the need for a change in leadership for managers. The transformational leadership creates a proactive, positive attitude, passion, interest or an increase in intrinsic motivation of employees, thereby affecting work performance. This study performed reliable verification by Cronbach’s Alpha coefficient, then the factors are analyzed by EFA before conducting multivariate regression analysis. The results showed that the transformational leadership style includes such factors as: idealized influence (attributed and behavior), inspirational motivation, intellectual stimulation, individualized consideration have a positive impact on intrinsic motivation and thereby positively affecting work performance. It confirms that employees will have a higher intrinsic motivation level when working under transformational leadership from their leaders. It makes employees work more efficiently. According to the research results, the pharmacist has an intrinsic motivation to work hard on tasks that contribute to the group overall goal. That requires managers to have a task assignment strategy to connect the goals of the members together as well as of the members to the group.

Keywords: Leadership Style, Transformational Leadership, Intrinsic Motivation, Work Performance, Pharmaceutical Industry

JEL Classification Code: M12, L65, L25

1. Introduction

According to IMS Health, Vietnam's pharmaceutical industry belongs to a group of 21 countries which have a growing pharmaceutical industry. Total expenditure per capita for drugs in Vietnam in 2013 reached 33 USD/person. Although Vietnam has only reached the level of production of completed medicines from imported materials, it has not been able to produce pharmaceutical raw materials by itself and has not yet invented drugs but Vietnam has the highest growth rate in Southeast Asia in the 2008 – 2012 period reaching 23% per year. Though while the economic crisis brought down most economic sectors,, the pharmaceutical industry still achieved good growth. Along with the average population growth of Vietnam at 2% per year and gradually aging population structure, the demand for drugs is increasing, it is expected that the growth will increase about 17% per year.

Unlike other business sectors, the pharmaceuticals industry is a special economic and technical field because it is directly related to human health. Therefore, the sales and marketing team Not only need to gain certain knowledge, they also have a certain expertise in pharmaceuticals. The direct customers of the pharmacist is doctors, who are not directly using medicines but having an important impact on the patient's use with prescription behavior. The working time of the pharmacist is often flexible, depending on the doctor's free time, so the pharmacist needs to have high self-awareness in working, proactively addressing real situations. The leader with
transformational leadership style is the person who has the ability to set clear and specific goals for employees, encourage employees, inspire the vision for employees, thereby creating the breakthrough in work.

In Vietnam, the bonus usually accounts for 40-60% of the pharmacist's income. This is high when comparing to other industries. This creates extrinsic motivations to help the pharmaceuticals become commit and contribute to the company. However, according to Towers Watson, a consulting company, the average job quits rate in 2014 of Vietnamese enterprises was 10%; in more detail pharmaceuticals and banking - financial are the sectors that made up the highest rate. The same is true for the world scale, according to LinkedIn, the average quit rate in pharmaceutical industry in 2017 was about 9.4%, which is one of the 10 industries with the highest rate in 2017.

Indeed, the motivation of current employees is not much dependent on extrinsic rewards. According to Erez, Gopher, and Arzi (1990), material rewards can also reduce job performance in complex jobs with different goals. In the pharmaceutical field, the pharmacist must perform different objectives at the same time as: building relationships with many departments in the hospital, updating information about doctors, clinical knowledge, competitors and bidding. To perform these tasks, the pharmacist needs to have a flexible and highly adaptable work plan in different situations. Therefore, the need of creating good motivation for pharmacists, managers not only have extrinsic rewards but also need to increase intrinsic motivation for employees. Helping them to feel joy and excitement in the work, leading to be proactive and creative in solving many complicated situations at work.

2. Literature Review

2.1. Leadership and Work Performance

2.1.1. Transformational Leadership

Burns (1978) was the first researcher to distinguish sharply between the transformational leadership and the transactional leadership. That research was conducted on political leaders but it was also used for organizational psychological research. According to Burns (1978), transformational leadership is a process that both leaders and employees help each other to reach higher levels of willpower and motivation. Bass (1985) officially introduced transformational leadership with models and behavioral factors to explain the psychological mechanism of transformative leadership style. He also described how to measure transformational leadership as well as explained how transformational leadership affect employees' motivation and performance. People with transformative leadership styles are leaders who are able to stimulate and inspire employees to achieve results that exceed expectations and develop employee leadership (Bass & Riggio, 2006). This is also the definition of transformational leadership used in this study.

The original transformational leadership includes: charisma of leadership (Charisma), intellectual stimulation and individualized consideration (Avolio, Waldman, & Einstein, 1988). Throughout advanced research, the fourth factor was identified: inspirational motivation. Then, after reviewing to match the concept of transformation, the element "charisma" was changed to "idealized influence" (Barbuto, 1997). In particular, this element consists of two parts based on the cause of attraction: behavior and attributed of the leader (Barbuto, 2005). This study uses the Multifactor Leadership Questionnaire (MLQ form 5X) scale to measure transformational leadership including the 5 factors mentioned above (Bass & Avolio, 1997). This is a standard measuring tool for evaluating transformative leadership behavior. It was translated and used in many studies.

2.1.2. Intrinsic Motivation

Intrinsic motivation is the implementation of an action for the inherent satisfaction rather than for external reasons. When there is an intrinsic motivation, people can act for their passion rather than for external rewards (Ryan & Deci, 2000). Intrinsic motivation is made up of three main needs: desire to succeed in a field, meaning of action or independence and orientation for own life (Deci & Ryan, 1985). Promoting intrinsic motivation, especially in the business environment, helps managers in saving time and money, compared to promoting extrinsic motivation in a long term.

2.1.3. Work Performance

According to Borman and Motowidlo (1993), work performance includes two aspects: task performance (also called “in-role behavior”) and contextual performance (also called "extra-role behavior"). In which, the task performance is the result of carrying out activities that benefit the organization. It can be directly part of the technical process or indirectly through providing materials or services. Work performance of employee is measured by 21 factors developed by Williams and Anderson (1991). This measurement is developed from three aspects of employee behavior: Organizational citizenship behaviors that benefits a specific individual (OCBI); Organizational citizenship behaviors that benefits a specific individual organization (OCBO); In-role behavior (IRB). The manager will evaluate the performance of the employee through a scale of 7 observed variables in IRB. It means task performance (Williams & Anderson, 1991).

2.1.4. Idealized Influence (Behavior & Attributed) and Intrinsic Motivation

The idealized influence (behavior and attributed) of the leader, who has transformational leadership, is created by the way leaders share their vision, mission and trust, as well as inspire employees about the organization's goals. The
leader has a transformational leadership with high competence, determination in dealing with problems. Thereby, the pride and dignity of employees are has risen (Ahmad, Abbas, Latif, & Rasheed, 2014). In this environment, employees will perform appropriate tasks and desire to exceed the assigned goals (Kahai, Sosik, & Avolio, 2003). Therefore, this study proposes hypothesis number one and number two as below:

**H1:** The idealized influence (attributed) of leader has a positive effect on intrinsic motivation

**H2:** The idealized influence (behavior) of leader has a positive effect on intrinsic motivation

### 2.1.5. The Leader’s Inspirational Motivation and Intrinsic Motivation

Leaders with transformational leadership are interested in the feelings and needs of the employees, and guide them to achieve their goals (Bass, 1990). Therefore, the employees are improved their interest in work. Inspirational motivation (IM) is one of the characteristics of transformational leadership, which represents the leader’s vision (Bass, 1990). According to Densten (2002), leaders will use their vision to encourage employees to make efforts beyond expectations. Specifically, the leader will use the symbols, metaphors and simple appeals to raise awareness and understanding about common goals of employees. The inspirational ability is that leaders use mental images to evoke vividly the charismatic picture of the future, thereby increasing the motivation of employees to help them achieve outstanding achievements. rank. The inspirational leader also promotes the excitement and meaning of work for employees. According to Shin and Zhou (2003), the inspirational leader will increase the concentration and energy of employees when working. So, proposed hypothesis number three as follow:

**H3:** Inspirational motivation of leader has a positive influence on intrinsic motivation

### 2.1.6. Leader’s Intellectual Stimulation and Intrinsic Motivation

According to Bolkan, Goodboy, and Griffin (2011), the ability of stimulating intelligence is related to intrinsic motivation and this motivation can affect students’ ability to learn effectively. The transformational leader with intellectual stimulation ability will stimulate employees to make assumptions, challenge the current ordeal and encourage solving problems; stimulating imagination, curiosity and unique problem approaches (Shin & Zhou, 2003). Since then, employees have been interested in their work, as well as they have focused on work, and have found better ways. In addition, the challenges of the transformational leaders contribute to increase energy, then they discover and are attracted to many different aspects of work. According to Deci and Ryan (2000), these factors create employees’ intrinsic motivation. Thus, hypothesis number four is set as follow:

**H4:** Intellectual stimulation of leader has a positive influence on intrinsic motivation

### 2.1.7. Leader’s Individualized Consideration and Intrinsic Motivation

A final aspect of the transformational leadership is individualized consideration (IC), which includes development orientation for employees and is an important approach for leaders to help their employee in succeeding in the current business environment (Rafferty & Griffin, 2006). Bass (1985) had argued that individualized consideration included two important aspects: the development of employees and attention to each individual. Bass (1985) said that the development orientation for employees is demonstrated by giving advice, observing the development process and encouraging employees to join advanced course. On the other hand, individualized consideration is that when the leader cares about the differences between employees and tries to motivate each employee (Bass, 1985).

Therefore, individualized consideration creates the interest, understanding employee’s needs, developing their abilities and giving them information and resources to develop themselves. Thus, the leader with transformational leadership will encourage employees, enhance their readiness, concentration and having a good performance. Hypothesis number five is proposed:

**H5:** Individualized consideration of leader has a positive effect on intrinsic motivation.

### 2.1.8. Intrinsic Motivation and Work Performance

Intrinsic motivation are thought to have stronger effects than extrinsic motivation on persistent efforts (Ryan & Deci, 2000; Valerand, 1997). It is an important factor affecting the work performance. Hackman and Oldman (1980) also agreed the positive relationship between intrinsic motivation and work performance. Baard, Deci, and Ryan (2004) also demonstrated the impact of the internal needs of employee (ability, self-determination, familiarity) on employee performance.

Intrinsic motivation creates the meaning, commitment and engagement of employees, thereby creating job performance (Chalofsky & Krishna, 2009). Promoting intrinsic motivation, especially in a complex business field like pharmaceuticals, will not only save money in the long-term period but also create the best connection for employees, hence contributing to enhance performance. The manager will not take much time to control, remind or urge employees every day. Therefore, hypothesis number six is set as bellow:

**H6:** Intrinsic motivation has a positive effect on work performance.
2.2. Research Model

![Figure 1: Proposed research model]

3. Research Method

Both qualitative research and quantitative research are used in this research:

**Qualitative research** collected data by two methods, which are interviews and group discussions. The interviews were conducted with 3 leaders of companies in the pharmaceutical field (Managing Diabetes medicine group - Astra Zeneca representative office; Managing Cancers medicine group - Piere Fabre representative office; Managing eye medicine group - Hyphens Pharma representative office). After that, this study started the second stage, which is group discussion to collect ideas from 2 groups (7 peoples and 5 peoples), who were working in pharmaceutical companies, as: Piere Fabre representative office, Boehringer Ingelheim representative office, Servier Vietnam Co. Ltd, Fresenius Kabi representative office, Hoang Duc Co. Ltd, Hyphens Pharma representative office. The result of qualitative research added 11 observed variables (IIa6, IIa7; IIb5, IIb6; IM5; IS5; IC5, IC6; IT5, IT6; WP8) to measure 7 factors: Idealized influence (attributed) (IIa), Idealized influence (behavior) (IIb), Inspirational motivation (IM), Intellectual stimulation (IS), Individualized consideration (IC), Intrinsic motivation (IT), Work performance (WP).

**Quantitative research** was conducted by a survey with 250 pharmacists working in pharmaceutical field in Vietnam. Likert five-point scale “1-Totally disagree”, “2-Disagree”, “3-Neutral “, “4-Agree”, “5. Totally agree”, is used to measure observed variables in each factor. The collected data would be processed and analyzed by SPSS 20 to assess the significance of factors as well as test the hypotheses.

4. Results

There are 250 questionnaires generated and collected, after sorting out unsatisfied forms due to lack of information, the remaining 220 valid questionnaire forms (88%) used to analyze.

4.1. Descriptive Statistics

*Gender and age:* numbers of male and female are quite similar (male 45.5% and female 54.5%). Most of them are young people, 97.7% are under 36 years old. There are only 5 people in the group from 36 to 45 years old (Table 1).

*Education:* The majority of respondents graduated from university, accounting for 79.5% with 175 people. After that, the group of postgraduate qualifications accounted for 15.9%. The remaining proficiency groups are college and high school with 5 people each.

The amount of income above 20 million VND is relatively high with 28.7% of total respondents, divided into two groups: from 20 to less than 30 million VND with 45 people accounting for 20.5%, over 30 million VND with 18
people accounting for 8.2%.

Experience and company type: Most respondents have under 10 years of working experience with 205 people, which accounts for 93.2%. And the research samples are mostly working in representative offices of multinational pharmaceutical companies with 159 people accounting for 72.3%.

### Table 1: Descriptive statistics

|                        | Frequency | Tỷ lệ (%) |
|------------------------|-----------|------------|
| **Gender**             |           |            |
| Male                   | 100       | 45.5       |
| Female                 | 120       | 54.5       |
| **Ages**               |           |            |
| 18 - 25 years old      | 74        | 33.6       |
| 26 - 35 years old      | 141       | 64.1       |
| 36 - 45 years old      | 5         | 2.3        |
| **Education**          |           |            |
| High school            | 5         | 2.3        |
| College                | 5         | 2.3        |
| University             | 175       | 79.5       |
| Postgraduate           | 35        | 15.9       |
| **Income**             |           |            |
| <10 million VND        | 58        | 26.4       |
| 10 - 20 million VND    | 99        | 45.0       |
| 20 - 30 million VND    | 45        | 20.5       |
| >30 million VND        | 18        | 8.2        |
| **Experience**         |           |            |
| < 5 years              | 115       | 52.3       |
| 5 - 10 years           | 90        | 40.9       |
| 10 - 15 years          | 10        | 4.5        |
| >15 years              | 5         | 2.3        |
| **Company type**       |           |            |
| Vietnam’s company      | 61        | 27.7       |
| representative office   | 159       | 72.3       |

#### 4.2. Descriptive Statistic of Quantitative Variables

*Idealized influence (attributed):* IIa2 has the highest mean value with 4.05, while IIa6 gets the lowest mean value of 3.60. Thus, the pharmacists believe that their leaders are more concerned with the advantages of the group than fairness when deciding to solve problems (Table 2).

*Idealized influence (behavior):* IIb5 has the highest mean value of 3.53, while IIb6 has the lowest lowest value of 3.40. This means that the pharmacists appreciate the leader's ability to protect employees rather than leaders with specific work plans to support each employee to achieve personal goals.

*Inspirational motivation:* IM4 and IM5 has the same mean value and it is the highest (3.58), while IM2 has the lowest mean value (3.41). Therefore, the pharmacists see that the leaders are confident of reaching their goals and always focus on company's mission consistently rather than talking excitedly about the employees' goals.

*Intellectual stimulation:* IS2 has the highest mean value (3.53), while IS3 has the lowest mean value (3.48). This means the pharmacists positively evaluate leaders who seek different perceptions when solving problems rather than asking others to look at issues from different perspectives.

*Individualized consideration:* IC3 gets the highest mean value with 3.59, while IC2 gets the lowest mean value (2.87). So the pharmacists thinks that the leaders should care about the needs, abilities and aspirations of each employee rather than how to treat individuals.

*Intrinsic motivation:* IT6 has the highest mean value (3.83), while IT2 has the lowest mean value (3.27). Thus, the pharmacists performs the current tasks because they want to contribute to group overall goal rather than interested in task.

*Work performance:* WP8 has the highest average value (3.82), while WP6 has the lowest (3.21). So, the pharmacists are trying to complete tasks on time more than focusing on the mandatory tasks.
Table 2: Descriptive statistic of quantitative variables

| Coding | Content                                                                 | Source                      | Mean  | Min  | Max  | Stan.Dev. |
|--------|------------------------------------------------------------------------|-----------------------------|-------|------|------|-----------|
| lla1   | Your leader can convey his/her pride for those involved                | Avolio & Bass (2004)        | 3.67  | 2    | 5    | 0.508     |
| lla2   | Your leader is interested in the advantages of your group             |                             | 4.05  | 1    | 5    | 0.781     |
| lla3   | The action of your leader aims to build respect for others            |                             | 3.85  | 2    | 5    | 0.773     |
| lla4   | Your leader always demonstrates competence                             |                             | 3.90  | 1    | 5    | 0.778     |
| lla5   | Your leader always shows confidence                                    |                             | 3.94  | 2    | 5    | 0.771     |
| lla6   | Your leader is always fair when deciding issues                       | Qualitative research        | 3.60  | 2    | 5    | 0.857     |
| lla7   | Your leader is always assertive at work                                |                             | 3.72  | 1    | 5    | 0.811     |
| IIa1   | Your leader talks about beliefs and the most important values for them |                             | 3.49  | 1    | 5    | 0.836     |
| IIa2   | Your leader points out the importance of having clear goals           |                             | 3.47  | 1    | 5    | 0.841     |
| IIa3   | Your leader considers the moral consequences of his/her decisions     |                             | 3.41  | 2    | 5    | 0.815     |
| IIa4   | Your leader emphasizes the importance of having a collective mission  |                             | 3.47  | 1    | 5    | 0.888     |
| IIa5   | Your leader always stands out to protect his/her employees            | Qualitative research        | 3.53  | 1    | 5    | 0.841     |
| IIa6   | Your leader always has a specific work plan to support each employee to achieve specific goals | Qualitative research | 3.40  | 1    | 5    | 0.913     |
| IM1    | Your leader is optimistic about the future                            |                             | 3.50  | 1    | 5    | 0.712     |
| IM2    | Your leader talks about things that need to be done excitedly         | Avolio & Bass (2004)        | 3.41  | 1    | 5    | 0.713     |
| IM3    | Your leader speaks clearly and convincingly about the future vision   |                             | 3.48  | 1    | 5    | 0.791     |
| IM4    | Your leader emphasizes the confidence to achieve the goal             | Qualitative research        | 3.58  | 1    | 5    | 0.838     |
| IM5    | Your manager always insists on the company mission                    |                             | 3.58  | 1    | 5    | 0.720     |
| IS1    | Your leader often asks questions about contradictory assumptions       | Avolio & Bass (2004)        | 3.50  | 1    | 5    | 0.868     |
| IS2    | Your leader seeks different perceptions when solving problems         |                             | 3.53  | 1    | 5    | 0.819     |
| IS3    | Your leader often suggest others look at problems from many aspects   | Avolio & Bass (2004)        | 3.48  | 1    | 5    | 0.873     |
| IS4    | Your leader recommends new perspectives for assigned tasks            | Qualitative research        | 3.50  | 1    | 5    | 0.819     |
| IS5    | Your leader often suggests different approaches for the same specific goal | Qualitative research | 3.50  | 1    | 5    | 0.830     |
| IC1    | Your leader spends a lot of time for training and coaching employees  | Avolio & Bass (2004)        | 3.55  | 1    | 5    | 0.754     |
| IC2    | Your leader treats others as an individual rather than as a member of the group | Avolio & Bass (2004) | 2.87  | 2    | 5    | 0.624     |
| IC3    | Your leader thinks that each individual has a different need, ability and desire | Avolio & Bass (2004) | 3.59  | 1    | 5    | 0.751     |
| IC4    | Your leader helps others develop their strengths                       | Qualitative research        | 3.57  | 1    | 5    | 0.721     |
| IC5    | Your leader is interested in the mind subordinate                     | Qualitative research        | 3.41  | 1    | 5    | 0.638     |
| IC6    | Your leader often seeks to solve problems that are appropriate to each individual's perspective | Qualitative research | 3.26  | 1    | 5    | 0.857     |

**Intrinsic motivation:** Why do you perform current task?

| IT1    | Because I think it attracts me                                       | Guay et al. (2000)          | 3.31  | 2    | 5    | 0.602     |
| IT2    | Because I think it is interesting                                    |                             | 3.27  | 2    | 5    | 0.594     |
| IT3    | Because that task is fun                                            |                             | 3.29  | 2    | 5    | 0.617     |
| IT4    | Because I feel good when doing that task                            |                             | 3.30  | 2    | 5    | 0.543     |
| IT5    | Because that task is useful for me                                  | Qualitative research        | 3.29  | 2    | 5    | 0.563     |
| IT6    | Because that task contributes to the overall goal of the group       |                             | 3.83  | 1    | 5    | 0.915     |
4.3. Reliability of Scale and Exploratory Factor Analysis (EFA)

4.3.1. Reliability of Scale

The indicators IIb1, IIb3, IM5, IC2, IT6, WP8 were disqualified because of corrected Item-total correlation less than 0.3 when performing Cronbach’s Alpha testing. After that, Cronbach’s Alpha coefficients of “Idealized influence (attributed)”, “Idealized influence (behavior)”, “Inspirational motivation”, “Intellectual stimulation”, “Individualized consideration”, “Intrinsic motivation” and “Work performance” alternatively are: 0.834, 0.811, 0.748, 0.817, 0.753, 0.820, 0.922, which are all more than 0.7; all of the observed variables measuring these factors achieve a total correlation coefficient of variables above 0.3. Therefore, those remain observed variables measure the above factors, as shown in Table 3, are all qualified to be added into EFA.

Table 3: Cronbach’s Alpha coefficients

| Observed Variables                          | Corrected Item-Total Correlation | Cronbach’s Alpha if Item Deleted | Cronbach’s Alpha |
|--------------------------------------------|----------------------------------|---------------------------------|------------------|
| Idealized influence (attributed)           |                                  |                                 |                  |
| IIa1                                       | 0.607                            |                                 | 0.816            |
| IIa2                                       | 0.643                            |                                 | 0.802            |
| IIa3                                       | 0.618                            |                                 | 0.806            |
| IIa4                                       | 0.606                            |                                 | 0.808            |
| IIa5                                       | 0.589                            |                                 | 0.811            |
| IIa6                                       | 0.535                            |                                 | 0.821            |
| IIa7                                       | 0.545                            |                                 | 0.818            |
| Idealized influence (behavior)             |                                  |                                 |                  |
| IIb2                                       | 0.646                            |                                 | 0.756            |
| IIb4                                       | 0.632                            |                                 | 0.762            |
| IIb5                                       | 0.630                            |                                 | 0.763            |
| IIb6                                       | 0.612                            |                                 | 0.773            |
| Inspirational motivation                   |                                  |                                 |                  |
| IM1                                        | 0.649                            |                                 | 0.635            |
| IM2                                        | 0.482                            |                                 | 0.722            |
| IM3                                        | 0.542                            |                                 | 0.691            |
| IM4                                        | 0.514                            |                                 | 0.710            |
| Intellectual stimulation                   |                                  |                                 |                  |
| IS1                                        | 0.641                            |                                 | 0.770            |
| IS2                                        | 0.574                            |                                 | 0.790            |
| IS3                                        | 0.570                            |                                 | 0.792            |
| IS4                                        | 0.634                            |                                 | 0.773            |
| IS5                                        | 0.617                            |                                 | 0.778            |
| Individualized consideration               |                                  |                                 |                  |
| IC1                                        | 0.534                            |                                 | 0.703            |
| IC3                                        | 0.563                            |                                 | 0.693            |
| IC4                                        | 0.507                            |                                 | 0.713            |
| IC5                                        | 0.418                            |                                 | 0.742            |
| IC6                                        | 0.577                            |                                 | 0.688            |
| IC1                                        | 0.534                            |                                 | 0.703            |
| Intrinsic motivation                       |                                  |                                 |                  |
| IT1                                        | 0.655                            |                                 | 0.771            |
| IT2                                        | 0.637                            |                                 | 0.777            |

Williams & Anderson (1991)
4.3.2. Exploratory Factor Analysis (EFA)

All observed variables belong to transformational leadership’s scale (25 indicators) which were analyzed with Varimax rotation. Since the distinction between two factors IIa and IM is not guaranteed, the observed variable IIa1 was eliminated after the first rotation. Recheck Cronbach’s Alpha coefficient of the scale "Idealized influence (attributed)". Cronbach’s Alpha = 0.816 and the correlation coefficient of the remaining variables is qualified (> 0.3). The results of EFA, after removing IIa1, were qualified with KMO=0.784, Barlett’s test sig.= 0.000, Total Eigenvalue = 1.318, % Cumulative =58.136% (Table 4).

Table 4: Result of exploratory factor analysis

| Component                        | Component | Component | Component | Component | Component |
|----------------------------------|-----------|-----------|-----------|-----------|-----------|
| IT3                              | 0.638     | 0.777     |           |           |           |
| IT4                              | 0.498     | 0.815     |           |           |           |
| IT5                              | 0.633     | 0.779     |           |           |           |
| Work performance                 |           |           |           |           | 0.922     |
| WP1                              | 0.772     | 0.909     |           |           |           |
| WP2                              | 0.751     | 0.911     |           |           |           |
| WP3                              | 0.747     | 0.912     |           |           |           |
| WP4                              | 0.781     | 0.908     |           |           |           |
| WP5                              | 0.754     | 0.911     |           |           |           |
| WP6                              | 0.739     | 0.912     |           |           |           |
| WP7                              | 0.759     | 0.911     |           |           |           |

Then, this study performed EFA in turn for observed variables belong to scale “Intrinsic motivation” and “Work performance”. The results of IM’s scale were satisfactory with KMO=0.850, Barlett’s test sig.= 0.000, Total Eigenvalue = 2.911, % Cumulative =58.216%. Meanwhile, the scale of factors WP, one component was extracted with 7 indicators (KMO = 0.926, Bartlett’s test sig. = 0.000, Total Eigenvalue = 4.780, % Cumulative =68.290%).

4.4. Regression Analysis

Firstly, this research performed linear regression analysis for the model that transformational leadership affect to intrinsic motivation (Table 5). The results showed that $R^2=0.713$, this mean 71.3% of “Intrinsic motivation” can be explained by independent variable in this model. In F testing, sig.= 0.000, so this model suitable with data. The Durbin-Watson value was 1.963 and maximum VIF value was 1.384, so there were no autocorrelation and multicollinearity happening.
Table 5: The result of transformational leadership affect to intrinsic motivation model

| Model | Unstandardized Coefficients | Standardized Coefficients (β) | t | Sig. | VIF |
|-------|-----------------------------|-------------------------------|---|------|-----|
|       | B                           | Std.                          |   |      |     |
| Constant | -0.100                      | 0.160                         | -0.623 | 0.534 |     |
| IIA    | 0.091                       | 0.030                         | 0.117** | 3.043 | 0.003 | 1.101 |
| IIB    | 0.264                       | 0.024                         | 0.413** | 10.898 | 0.000 | 1.072 |
|IM      | 0.254                       | 0.032                         | 0.330** | 7.832 | 0.000 | 1.321 |
| IS     | 0.259                       | 0.028                         | 0.372** | 9.392 | 0.000 | 1.170 |
| IC     | 0.096                       | 0.036                         | 0.114** | 2.653 | 0.009 | 1.384 |

Dependent variable | IT | R²  | 0.713 |
|                  |    | Adjusted R² | 0.706 |
|                  |    | Durbin-Watson | 1.963 |
|                  |    | F (Anova) | 106.286 |
|                  |    | Sig. (Anova) | 0.000 |

***. significant at the 1% level

Continue to perform linear regression analysis for intrinsic motivation affect to work performance model. The analytical results showed that R² = 0.503 means that 50.3% of "Work performance" can be explained by "Intrinsic motivation". In F testing, sig = 0.000, we concluded that the regression model was suitable for the data. The Durbin - Watson value =1.606, and VIF =1 so there were no autocorrelation and multicollinearity (Table 6).

Table 6: The result of intrinsic motivation affect to work performance model

| Model | Unstandardized Coefficients | Standardized Coefficients (β) | t | Sig. | VIF |
|-------|-----------------------------|-------------------------------|---|------|-----|
|       | B                           | Std.                          |   |      |     |
| Constant | 0.562                       | 0.185                         | 3.032 | 0.003 |     |
| IT     | 0.829                       | 0.056                         | 0.709** | 14.850 | 0.000 | 1.000 |

Dependent variable | WP | R²  | 0.503 |
|                  |    | Adjusted R² | 0.501 |
|                  |    | Durbin-Watson | 1.606 |
|                  |    | F (Anova) | 220.515 |
|                  |    | Sig. (Anova) | 0.000 |

***. significant at the 1% level

Idealized influence (attributed) has a positive effect on intrinsic motivation (H1): The factor "Idealized influence (attributed)" with sig.=0.003, has a significant at the 1% level and β1 = 0.117 > 0, so hypothesis H1 is accepted. This result is completely consistent with previous researchs by Piccolo and Colquitt (2006), Gumusluogl and Ilsev (2007). In fact, leaders have outstanding qualities such as good ability, passion and enthusiasm for work that will inspire their employees. The pharmacists under these leaders will have the love, passionate about thier work, thereby increasing intrinsic motivation for themselves.

Idealized influence (behavior) has a positive effect on intrinsic motivation (H2): The factor "Idealized influence (behavior)" has a significant level at 1% (sig = 0.000) and β2 = 0.413 > 0. Therefore, hypothesis H2 is accepted. This result fully consistent with earlier studies of Piccolo and Colquitt (2006); Bennis and Nanus (1985). Indeed, the behavior of leaders in pharmaceutical companies will have a strong impact on employees' emotions. Specifically, leaders always clarify the role and importance of building goals or creating more trust for employees, fromthere their employees will have positive feelings in job. At that time, the pharmacists will perform their duties in ways that they find attractive by themselves. It is also when their intrinsic motivation reaches the most positive impact.

Inspirational motivation has a positive affect on intrinsic motivation: the factor “Inspirational motivation" has sig.=0.000 and β3=0.330>0. Thus, hypothesis H3 is
accepted. This is quite similar to previous research by Piccolo and Colquitt (2006). The ability to inspire represents the ability of leaders to use vision (Bass, 1990). Highly inspirational leaders have the ability to use a variety of skills to improve awareness of the pharmacist with respect to their vision, mission or specific goals. At the same time, positive emotions and intrinsic motivation also enhanced.

Intellectual stimulation has a positive effect on intrinsic motivation: “Intellectual stimulation” statistical meaning was at 1% (sig. = 0.000); and β4=0.372 > 0, proving that hypothesis H4 is accepted. This result is similar to previous studies by Piccolo and Colquitt (2006); Rafferty and Griffin (2006). In fact, that the leaders who are able to stimulate the intelligence of the pharmacist will create the ability to analyze and deduce. From there, the pharmacist can make effective plans to meet many goals. Therefore, the pharmacist get proactive feeling while performing their tasks, increase intrinsic of ourselves.

Individualized consideration has a positive effect on intrinsic motivation: “Individualized consideration” statistical meaning was at 1% (sig. = 0.009); and β5=0.114 > 0, proving that hypothesis H5 is accepted. Thus, the hypothesis H5 is accepted. This result is entirely consistent with earlier researchs by Piccolo and Colquitt (2006); Rafferty and Griffin (2006). In pharmaceuticals field, leaders care about their staff to help them share a view together. Hence, the pharmacists enhance their emotional, intrinsic motivation. Besides, individualized consideration will help managers realize the characteristics and outstanding qualities inside the pharmacist. Thereby, the leader can help their staff to have a clearly orientations in the future and in their daily life. The pharmacists, with positive emotions, will work hard and contribute to company. In other words, the intrinsic motivation of pharmacist reaches a higher level.

Intrinsic motivation has a positive effect on work performance (H6): The factor “intrinsic motivation” has sig = 0.000 and β6=0.709, so the hypothesis H6 is accepted. There was a similar result in previous studies by Hackman and Oldman (1980); Piccolo and Colquitt (2006). The intrinsic motivation will create a positive emotional connection between pharmacists and work. The pharmacists will achieve their commitment and engagement to tasks. They themselves feel urged, motivated during the implementation of their tasks without extrinsic motivation factors. The employees will work more efficiently, so improving work performance.

5. Conclusion and limitation

5.1. Conclusion

The research model includes 5 factors of transformational leadership, which affect work performance toward intrinsic motivation of employees working in the pharmaceutical field in Vietnam. These above factors are measured by 43 observed variables. However, after testing the scale's reliability and Exploratory Factor Analysis, there were 7 eliminated observed variables, so the final observed variables used in regression analysis were 36. The results of multivariate regression analysis showed the Idealized influence (attributed and behavior); Inspirational motivation; Intellectual stimulation; Individualized consideration all have a positive impact on intrinsic motivation. And intrinsic motivation has a positive affect on work performance. It confirms that employees have a higher intrinsic motivation level when working under transformational leadership from their leaders. It makes employees work more efficiently.

Regarding the results, this study propose some management suggestions that can improve employee's intrinsic motivation through the transformational leadership, thereby increasing work performance. The leader needs to have a positive vision and find out the advantages of the group, thus encouraging the group to work better, achieving higher performance. Besides, leaders should consider and be willing to stand up for their employees when encountering conflicts in working process. This will make employees admire their leaders more, since then employees have more motivation to perform their tasks. Furthermore, the leaders should be confident with their own ability and consistency with company’s goals. It contributes to inspiring employees to feel confident when working. Therewith leaders should look for different perspectives when solving a problem, which makes employees feel more respectful, creating more positive emotions when working. Finally, leaders should actively explore the needs, abilities and aspirations of employees, which is the basis for assigning tasks and orienting work as well as creating emotional engagement. Pharmacists must see the impact of their contributions to the overall goal, thence enhancing positive intrinsic motivation and work performance.

5.2. Limitation

Firstly, this study only considers the impact of transformational leadership on work performance toward intrinsic motivation without considering other motivations. Secondly, this study focused on considering the impact of transformational leadership without considering other leadership styles. Finally, this study uses a convenient sampling method that also has a certain limitation. The generalization of research results will be higher if done by random sampling.

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