The Relation between Financial Literacy, Financial Wellbeing and Financial Concerns

Marzieh Kalantarie Taft1, Zare Zardeini Hosein2, Seyyed Mohammad Tabatabaei Mehrizi3 & Abdoreza Roshan4
1 Department of Accounting, Faculty of Humanities, Yazd Islamic Azad University, Iran
2 Department of Management, Ferdowsi University of Mashhad, Mashhad, Iran
3 Islamic Azad University, Science and Research Branch, Tehran, Iran
4 Imam Hosein University, Faculty of Humanities, Tehran, Iran
Correspondence: Zare Zardeini Hosein, Department of Management, School of Administrative & Economic Science, Ferdowsi University of Mashhad, Mashhad, Iran. E-mail: Hzare622@gmail.com

Received: February 21, 2013          Accepted: March 27, 2013        Online Published: May 16, 2013
doi:10.5539/ijbm.v8n11p63           URL: http://dx.doi.org/10.5539/ijbm.v8n11p63

Abstract
Increased variety of products and the instability of the global economy in twenty first century caused increasing complexity of financial decisions and also caused consumers faced with the challenge in economic and financial activities. For this reason, in the last decade, the importance of financial management skills in personal and work life has increased and researches in this area has been done. In this regard, this study tries to evaluate the relation between financial literacy, financial wellbeing and financial concerns. For this purpose, a questionnaire was designed and distributed using random sampling among people. Data was analyzed using correlation test, Independent two-sample test based on the T distribution and regression. The results showed that age and education are positively correlated with financial literacy and financial wellbeing. Married people and men are more financially literate. Higher financial literacy leads to greater financial well-being and less financial concerns. Finally, financial wellbeing leads to less financial concern.

Keywords: financial literacy, financial wellbeing, financial concerns, economic stress, financial management

1. Introduction
From the early to mid twentieth century, usually the trading volume was less and financial decisions were simple and easy. With the advent of the Industrial Revolution and the increasing volume and variety of goods, the size and diversity of the world's trade was gradually increasing and following it, developing communications network, sales were facilitating and spending was soared. Such circumstances led to the increasing complexity of financial management and hardening financial decisions in the past few decades (National Institute of Financial Education of America, 2010). Also over the past decade the stability of the world economy has declined and recession has caused increasing inflation and unemployment and reducing communities' income. Complexity of financial decisions and economic recession has threatened the quality of people's individual lives and work and has made researchers to investigate ways to deal with them. Financial wellbeing and financial concerns are two important factors determining the quality of life and has been investigated in several studies. Recession has threatened the financial well-being and caused economic concerns, including concerns about health, debts, income and career advancement in the world. These concerns have harmful effects on psychological and physical health, reduce confidence and productivity in the workplace and increase absenteeism, delays, lack of concentration as well as conservative (Godfrey, 2006; Van Praag et al., 2003).

One of the issues that can help in terms of complexity and recession and could have a positive effect on economic capability is financial literacy. Financial literacy means the ability to understand and analyze financial options, planning for the future, and responding appropriately to the events. Having the ability has influence on the conditions of life and work and can be very helpful in anticipating the future and increasing human income. Unfortunately, despite the importance of financial literacy, research has shown that this ability among the people of the world, especially in developing and underdeveloped countries is not perfect and barriers such as the complexity of financial life, the existence of many options when making decisions and having not enough time and money to learn about personal finance issues, caused low financial literacy of people in these communities.
Several studies have been conducted with the subject of financial wellbeing, financial concerns, and financial literacy. In these researches, the impact of three variables on financial decisions, health and success in business and personal life of individuals was covered and family factors, economic–social and demographic variables on the rates of economic welfare, financial concerns, and financial literacy are studied. One of the gaps in the research literature is the absence of study in which three variables related to financial wellbeing, financial literacy and financial concerns are considered. In this regard, this study will attempt to measure the three variables and investigate their relationship. This research can help fill this gap in the research literature.

2. Literature Review

2.1 Financial Literacy

Different definitions of financial literacy and personal finance are presented in the literature until now. Garman and forgue (2000) have identified financial knowledge as understanding the principles and terminology needed for a successful management of personal financial issues. Jacob et al (2000) considered personal financial knowledge as concepts of personal financial management skills and information. They have considered the meaning of word knowledge as knowing conditions, practices, rules and norms required for performing financial duties. The term financial involves a wide range of daily activities that are associated with the funds and includes activities such as check control to credit card management, budget preparation, purchasing insurance and investment. According to Remund (2010), financial literacy is a person's ability to understand and use financial matters. Huston (2010) considers financial literacy including awareness and knowledge and financial instruments and their application in business and personal life. In general, these definitions show that financial literacy includes the ability to balance a bank account, budget preparation, save for the future and learn strategies to manage debt. A person is known as financial literate if he/she is able to manage his/her personal finance in life and changing society in order to which he/she must achieve necessary perception, develop his/her skills in this area and be able to understand the impact of individual's financial decisions on his/her own, others and the environment (Remund, 2010).

The dependence of market boom to aware consumers, increased economic security and financial well-being of communities by increasing consumer awareness, sophisticated financial markets and increased risks of financial decisions have led to financial literacy beings known as one of the most important needs of human-being throughout the world (Hogarth, 2006). The significance is as much that the president of America signed an order in January 2008 to create a state advisory council on financial literacy and awareness of citizens in America. The goal of this council was making researches on the issues of financial knowledge, standards establishment for public awareness of financial issues and assist schools in providing appropriate training in this area (National Institute for Financial Education of America, 2010).

Increased financial literacy has a positive impact on people’s personal and business life. The financial knowledge helps reducing social and psychological pressures and increasing the welfare of the family in the personal life. Financial knowledge reduces stress, illness, financial disputes, abuse of children and conflict among the families. People grown up in families with the higher financial knowledge and well-being are less depressed, show less aggressive and anti-social behavior and have more self-confidence (Fox et al., 2005). In work life higher financial literacy has higher efficiency and productivity in result and will help employees to better understand benefits offered by the organization and improve their satisfaction (Brennan, 1998). According to Champoin (2001), financial education cause reducing the absences in organization and keeping valuable employees. According to Kim (2007), high financial literacy decreases emotional stress and anxiety in the workplace. Bernheim and Garrett (2003) suggest in their study that the organizations strengthen their human resource management and promote the private and work life of their employees, increasing their employee’s knowledge in the field of financial. According to Vitt et al. (2000), the greatest advantage of financial literacy education is reducing employees’ financial problems and encouraging them to be responsible for their own financing and both will help increasing the efficiency of the organization.

2.2 Financial Well-Being

Wellbeing is a multi-part concept. According to Van Praag et al. (2003), well-being is provided by individual satisfaction in six areas: business, finance, home, leisure, health and environmental. McGregor and Goldsmith (1998) recognize welfare as including economic, physical, social, emotional, environmental aspects, political and spiritual factors. As mentioned in both references, material well-being is one of the aspects of welfare and convenience. Fergusson et al. (1981) describe financial wellbeing as financial income level and asset. Williams (1983) recognizes financial wellbeing as a function of material and spiritual aspects of one’s financial status,
and the Hayhoe et al. (1990) defined the financial well being as satisfaction feeling of a person with his financial status. According to Porter (1990) the financial well-being is one’s attitude toward the financial status based on objective aspects and judge them with regard to the standards. According to Joo (1998) the concept of well-being or in other words people's perception of well-being varies with change in the level of people life. In the past, wellbeing has had the meaning of overall happiness or satisfaction with their financial status or assets. But at the present the wellbeing concept has changed to material and non-material aspects of a person's perception from their financial status, improving their living standards and includes perceptions such as: ability to meet the needs, feeling safe, feeling comfortable and satisfied with the income and the award distribution system. Goldsmith (2000) knows financial wellbeing as financial adequacy and safety of individual or family that protects the person against economic risks such as unemployment, illness, bankruptcy, poverty and destitution in retirement. As these definitions indicate, attitude towards the financial well being is different among researchers and in different studies different methods have been used to measure economic wellbeing and welfare. One of these methods is using an objective or position scale. The scale uses quantitative indicators visible from a financial status to determine the level of financial wellbeing. For example, consumption of goods, net worth, saving, socioeconomic status, income, number of children and home ownership are accounted for the physical aspects of financial well-being (Van Praag et al., 2003).

Another method is to use subjective measures of financial wellbeing measurement. Subjective wellbeing refers to internal and subjective assessment of the amount of person's financial resources which may be sufficient or insufficient and satisfactory or unsatisfactory. Certain concepts and various tools are used to investigate the subjective wellbeing. Ardelt (1997) knows life satisfaction, happiness, and not feeling discomfort in the life as subjective wellbeing. Brod et al. (1999) described the quality of life as overall subjective assessment of a person from his living in general and specific areas such as social life, finances, job or living situation. George (1993) has used three single-item scales including satisfaction with income, satisfaction with financial status and individual's standard of living consent to measure subjective well-being. Satisfactory with financial position represents an assessment of the overall financial status. Satisfactory with income refers to assessing the amount of income that a person receives or earns regularly. Satisfaction with standards of living is due to an assessment of the quantity and quality of goods and services available or on the market.

In objective and subjective measures of financial well-being, we can say that the objective method will provide more tangible evidence in comparison to the subjective one and it is easier to understand by respondent. In contrast, considering subjective measures cause a more complete assessment of financial well-being. Scales assessing subjective perceptions can provide a more complete understanding of consumer financial behavior. A researcher can identify the views, feelings, and perceptions about ones’ financial status, using variables that an individual realizes and provide him with a better symptoms and sign of wellbeing. In this study, we use both measures for financial wellbeing so that we can measure views, feelings and perceptions about their own financial status in addition to considering the quantitative criteria and visible from a financial position.

### 2.3 Financial Concerns

Fear is an unpleasant feeling which appears when losing a value or threatening it. Financial concern appears when one cannot meet his financial needs or his assessment of financial status is not good (Friedman, 1991). Financial concerns usually consist of emotions like fear and anxiety which can negatively affect the human and make positive changes such as finding new jobs and improve the ability to manage the financial issues (Tedeschi & Calhoun, 2004).

Financial concerns are associated with increased human physical and mental health issues. There is a strong relationship between financial concerns and referral to psychological institutions, depression and suicide (Turkington, 1985). The results of Moser et al. (1984) showed that employed men are 20 percent more susceptible to disease as compared to unemployed men. Fox and Chancey (1998) suggested in their study that financial concerns are negatively related with a sense of personal well-being, self-esteem, satisfaction with marital life and family functioning. Peirce et al. (2002) in their two-year study on 756 unemployed Americans looking for job found that financial concerns and pressure cause reducing physical health rank. They also found that financial concerns may increase the risk of depression and loss of control. Lange and Byrd (1998) achieved similar results in their study on New Zealand students. They have reported that financial problems can make a person feel depressed and concerned and his physical health used up.

The effects of financial concerns in the workplace have been proven in several studies. Studies have shown that financial concerns can result in lost productivity, reduced quality, quantity and efficiency of worker and increased work-related accidents, absenteeism and chance of losing job. Financial concerns can also have
positive effects such as increased savings directly by employees, reduced absenteeism, improved employee participation, improved quality and productivity (Williams et al, 1996). Negative effect of financial concerns on employee is more than their positive effects in the workplace. Workers who have financial difficulties cannot work with their full capacity and ability and will impose costs for their employers. In a survey by Luther et al. (1997) it was shown that workers’ financial difficulties has a huge impact on providing employee productivity and job performance. This research also showed that workers’ financial concerns impose high annual cost to the government and financial issues could have a negative impact on the motivation and preparedness for the work as compared with other problems.

3. Previous Studies

Different studies on financial literacy, financial concerns and financial wellbeing have been conducted until now that we will briefly state some of them which are closely related to the content of this research in the follow.

Williams et al. (1996) have examined the impact of financial concerns on work productivity. This research was conducted using a field study among 1000 employees. The results showed that employees’ financial concerns have a negative impact on their productivity. Also, employees attending consulting classes as well as training finance activities had less financial concerns and higher productivity.

Joo and Grable (2004) have conducted a study aimed at determining factors that influence financial satisfaction. The survey results showed that educational level, financial literacy, risk, financial ability, financial activity and financial pressures have a direct impact on financial satisfaction. The results showed that in high levels of knowledge and financial skills, strengthening the financial behaviors leads to higher levels of financial satisfaction and that financial risk tolerance level and financial pressures have a negative relationship with financial satisfaction. In this study the effect of variables: age, sex, race, marital status, having a home, family income and number of dependents on financial satisfaction was not proved.

Neill et al (2005) have conducted a study aimed at examining the relationship between financial activities, financial wellbeing, and health among 3,121 customers of a financial consulting organization. Their results showed that people with higher income and financial well-being will experience less stress, are more motivated in financial activities, have a better family relationships and are physically and mentally healthier.

Tamimi et al. (2009) examined the impact of financial literacy on financial decisions. Their results showed that the field of individual activities affects financial literacy level and people who invest in the areas of banking and stock have higher level of financial literacy. The survey also showed that men have higher financial literacy and income, age and education level are followed by higher level of financial literacy.

Dvorak and Hanley (2010) in a research subjected with financial literacy and designing retirement plans, have studied the relationship between financial literacy with demographic variables and understanding of retirement plans and documented benefits of the plans, in addition to measuring sample financial literacy. The results of this study showed that the level of financial literacy among people with low income and low education and among women is lower and participating in consultancy and finance training courses leads to increasing financial literacy.

Cude in 2010 examined effective factors on people's financial literacy. His results showed that higher levels of education, risk appetite, higher age, more work experience, family income, parental occupation and attending in training classes will increase financial literacy. In this research it is expressed that people with higher financial literacy are more successful in their business and personal lives. Their financial concerns were well lower and they had longer -term savings and investments and triggered a better future with more long-term vision.

4. Research Questions and Hypotheses

The study tries to answer the following question:

1) What is the relationship between financial literacy and financial concerns?
2) What is the relationship between financial wellbeing and financial concerns?
3) What is the relationship between financial literacy and financial wellbeing?
4) What is the relationship between demographic characteristics of age, sex, education, marital status and financial literacy?
5) What is the relationship between demographic characteristics of age, sex, education, marital status and financial wellbeing?
6) What is the relationship between demographic characteristics of age, sex, education, marital status and financial concerns?

The answers to the questions 1, 2 and 3 determine the relationships between three variables of financial literacy, financial concerns, and financial well-being. Also, the answers to questions 4, 5 and 6, will clear the relationship between demographic characteristics and these three variables. Following hypotheses are formulated, based on the questions and objectives of the research:

H1: There is a positive significant relationship between financial literacy and age.
H2: There is a positive significant relationship between financial wellbeing and age.
H3: There is a positive significant relationship between financial concerns and age.
H4: There are significant differences between men and women in financial literacy.
H5: There are significant differences between men and women in financial concerns.
H6: There are significant differences between men and women in financial wellbeing.
H7: There is a significant difference between singles and married financial concerns.
H8: There is a significant difference between singles and married financial literacy.
H9: There is a significant difference between singles and married financial wellbeing.
H10: There is a positive relationship between financial literacy and education of persons.
H11: There is a positive relationship between financial concerns and education of persons.
H12: There is a positive relationship between financial wellbeing and education of persons.
H13: Higher Financial literacy leads to higher economic wellbeing. (Financial literacy has a positive impact on the financial well-being).
H14: Higher Financial literacy leads to lower financial concerns. (Financial literacy has a negative impact on the financial concerns).
H15: Higher financial well-being leads to lower financial concerns. (Financial literacy has a negative impact on the financial concerns).

The validity of hypotheses 1, 2, 3, 10, 11 and 12 is investigated using Pearson correlation method. Independent two-sample test based on the T distribution is used to test the hypothesis, 4, 5, 6, 7, 8 and 9. Last three hypotheses were tested using regression methods.

5. Research Methodology

The survey for this study is placed in the area of applicable research depending on its aim, because it focuses on planning to solve a real-world problem and the results can be applied in the real decision-making situations. and from the view point of the method of data collection it can be placed in the field of survey and analysis research, because it studies the characteristics of a statistical population and seeks for analyzing and processing data.

In this research, society is Professor of tow University. This University Are located in Yazd in Iran and has around 300 Professor. In order to calculate sample, we use following formula:

\[
\frac{2}{\frac{N \cdot Z^2}{2} P(1-P)}
\]

\[
E^2(N-1) + \frac{Z^2 \cdot \alpha}{2} P(1-P)
\]

In which the reliability level 95% and the estimated error was 0.07. (Zα/2 =1.96, P=0.5). According to the calculation, the number of the samples was 103 and was selected by Simple random sampling.

5.1 Measuring Financial Literacy

The Chen and Volpe (1998) questionnaire was used in order to measure financial literacy of individuals. This questionnaire has been trying to consider the most important personal finance factors in the measurement of financial literacy. These factors include: general knowledge of finance including 9 questions, savings and loan including 9 questions, investment including 6 questions, insurance including 7 questions and financial decisions, financial opinions and financial training consisted of 8 questions. A five-option Likert scale was used in the questionnaire so that the score 1 represents the worst and 5 indicates the best situation for an individual upon
that question.

5.2 Measuring Financial Wellbeing

A questionnaire designed by Prawitz et al. (2006) has been used to measure respondents' financial wellbeing. The questionnaire consisted of eight questions. A ten-option scale was designed and respondents are asked to choose the most appropriate score on their own position so that the lowest score indicates the financial pressure and the highest score is an indicator of financial well-being.

5.3 Measuring Financial Concerns

The questionnaire used in this study to measure respondents' financial concerns was designed according to Fox & Chancey (1998), Scannell (1990), Schinittgrund & Baker (1983) and Sumarwan & Hira (1993) studies and used in Joo (1998), Bagwell (2000) and Kim and Garman (2003) studies. The questionnaire consisted factors: satisfaction with financial status, debts and saving, enough income, and investment. The questionnaire included four items: "I am satisfied with my financial status.", "My income is enough to pay my monthly expenses", "I'm not worried about my debt", and "I am satisfied with the amount of money I save for retirement and investment". These four questions were presented in a Likert scale of five options and respondents rate their agreement with the terms with expressions one to five.

5.4 Validity and Reliability of Questionnaire

This three Measuring tools included in the form of a questionnaire and at the beginning of the questionnaire questions related to personal variables were discarded. The questions on education level and marital status was designed as option; the options for education level include (1) associated degree, (2) BA, (3) MA and (4) PhD and include (1) single and (2) married for the marital status. Respondents have indicated their age in years-old and gender in a two-item option. After designing the questionnaire, its reliability and validity was tested.

In order to check the validity of the questionnaire, several theories of recovery which were suggested by some teachers, were intended in the final design. Cronbach's alpha was calculated to test the reliability of the questionnaire so that the alpha coefficient of the questionnaire was 81% for the financial literacy, 89% for the financial concerns and 79% for the financial well-being.

6. Data Analysis and Results

Data were analyzed using SPSS statistical software. Results of descriptive statistics are presented in Table 1. Pearson correlation test was used in order to check the validity of hypothesis 1, 2 and 3. The results of these tests are given in Table 2. This table shows that two variables of financial wellbeing and financial literacy is associated with the age of respondents (financial literacy, r = 0/534, p ≤ .01; financial well-being, r = 0/541, p ≤ .01). These results are consistent with the hypothesis 1 and 2. Since the correlation coefficient is positive for the variables of financial literacy and financial well-being, thus the validity of the first two hypotheses is confirmed with 99% confidence. The results of correlation analysis reject the relationship between age and financial concerns so, the validity of third hypothesis is rejected at the significance level of 95% (r = 0/021, p ≥ .05).

Table 1. Respondents characteristics

<table>
<thead>
<tr>
<th>variable</th>
<th>SD</th>
<th>min</th>
</tr>
</thead>
<tbody>
<tr>
<td>age</td>
<td>11/89</td>
<td>41.05</td>
</tr>
<tr>
<td>NO. Percentage</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gender</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Female</td>
<td>15</td>
<td>14/6</td>
</tr>
<tr>
<td>Male</td>
<td>88</td>
<td>85/4</td>
</tr>
<tr>
<td>education level</td>
<td></td>
<td></td>
</tr>
<tr>
<td>associated degree</td>
<td>3</td>
<td>2/9</td>
</tr>
<tr>
<td>Bachelor of Science</td>
<td>10</td>
<td>9/7</td>
</tr>
<tr>
<td>Master of Science</td>
<td>28</td>
<td>27/2</td>
</tr>
<tr>
<td>PhD</td>
<td>62</td>
<td>60/2</td>
</tr>
</tbody>
</table>

To test the validity of hypotheses 4, 5 and 6, the t test was used for two independent samples. The results of these tests are given in Table III. Results show that at the confidence level of 95%, assumption of existing differences in financial literacy for men and women is confirmed. Since the average financial literacy scores of
men is higher than women, it can be concluded that financial literacy among men is higher than financial literacy among women. There are also significant differences between financial concerns of men and women at the confidence level of 95% which is confirmed and hypothesis 5 is also accepted. Since the mean scores of financial concerns of men are more than women so, men are concerned about financial issues more than women. For the sixth hypothesis, existence of a significant difference in the financial well-being scores of men and women will be rejected at 95% confidence level.

Table 2. Correlation analysis results

<table>
<thead>
<tr>
<th>variable</th>
<th>min</th>
<th>SD</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>age</td>
<td>41.05</td>
<td>11.89</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>education level</td>
<td>3.01</td>
<td>.99</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Financial Literacy</td>
<td>134</td>
<td>32.8</td>
<td>0.534**</td>
<td>0.444*</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>financial wellbeing</td>
<td>58.8</td>
<td>20.5</td>
<td>0.241**</td>
<td>0.223*</td>
<td>0.263*</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>financial concerns</td>
<td>15.3</td>
<td>3.8</td>
<td>0.021</td>
<td>0.173</td>
<td>0.134*</td>
<td>0.11*</td>
<td>1</td>
</tr>
</tbody>
</table>

P* ≤ 0.05; p** ≤ 0.01.

The validity of the hypotheses 7, 8 and 9 is investigated using the t-test for two independent samples to examine existence of differences between the two groups. With regard to the statistics (t=2.05) and (p = 0.019), which is less than 0.05, the equal means of single and married financial literacy were rejected at the 95% confidence level of zero hypothesis and seventh hypothesis is confirmed. Also, since the statistic (t= 0.022) and (p = 0.981) which is less than 0.05, equal means of single and married financial literacy were accepted at the 95% confidence level of zero hypothesis and eighth hypothesis is rejected. The ninth hypothesis is rejected at the 95% confidence level because (p = 0.407) is greater than 0.05.

Table 3. Independent samples test

<table>
<thead>
<tr>
<th>Hypothesis</th>
<th>Depend variable</th>
<th>Independent variable</th>
<th>amount</th>
<th>Sign</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regression test for H13</td>
<td>Financial wellbeing</td>
<td>Age</td>
<td>1.3</td>
<td>.04</td>
</tr>
<tr>
<td></td>
<td></td>
<td>education level</td>
<td>2.54</td>
<td>.0321</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Financial literacy</td>
<td>.93</td>
<td>.00</td>
</tr>
<tr>
<td>Regression test for H14 and H15</td>
<td>Financial concerns</td>
<td>Financial literacy</td>
<td>.618</td>
<td>.001</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Financial wellbeing</td>
<td>.733</td>
<td>.005</td>
</tr>
</tbody>
</table>

In order to examine whether scores of financial literacy and financial concern are associated with financial education, the Pearson's correlation test was used. In order to determine the level of education of respondents, the interval scale is used. So that score 1, 2, 3 and 4 was considered for the associate degree, BA, MA, and 4, respectively. The correlation test results are shown in Table 2. This test shows that the level of education is related to financial literacy (r = 0.444) and financial well-being (r = 0.223) at the 95% confidence level. But the test has rejected the relationship between financial concerns and financial education (sing ≥ 0.05) so, the hypothesis 11 is rejected and hypotheses 10 and 12 are accepted.

Table 4. Result of regression analysis
In order to check the hypotheses 13, 14 and 15, the regression test was performed. Because correlation analysis results proved the relationship between financial literacy with education and age, age and education were used as a control variable in regression testing to verify the hypothesis 13. So, in the first step of the regression model these two variables were entered into the model and then the variable financial literacy was entered. For testing the validity of hypotheses 14 and 15, the financial literacy and financial wellbeing were used as independent variables and financial concern as the dependent variable in the regression analysis. The variables financial literacy and financial well-being were entered into the model in the first and the second step of the test, respectively and their impact on financial concerns was measured. Results of regression analysis indicated that the hypotheses 13 and 14 are confirmed at the 99% of confidence level and the hypothesis 15 is confirmed at the 95% confidence level.

7. Conclusions and Discussion

The relationship between financial literacy and financial wellbeing, financial literacy and financial concerns, and financial well-being and financial concerns were assessed in this study. Also, the role of demographic characteristics including age, sex, marital status and education level on the score change of financial wellbeing, financial literacy and financial concerns were investigated. The results revealed several important points. First, there is a positive relationship between the age and variables of financial wellbeing and financial literacy, marital status and sex and the financial literacy variable, and education level and financial well-being variable and financial literacy. Second, a higher level of financial wellbeing is followed by financial literacy. Third, higher financial literacy leads to less financial concerns. Finally, higher financial well-being reduces financial concerns.

Different results have been shown, studying the effects of psychological variables on financial wellbeing, financial literacy and financial concerns. Regarding the relationship between age and these three variables in researches Malone et al. (2010) and Cude (2010) a negative correlation between age and financial concerns is demonstrated and also it has been expressed that less financial concerns is followed by older age. In the research by Kim and Garman (2003) and Kim et al (2003) the positive relationship between age and financial concerns is concluded. In the researches Cude (2010), Lusardi et al. (2010), Kindle (2010), Volpe et al. (2002) and Tamimi and Kalli (2009) a positive relationship between age and financial literacy has been demonstrated. Joo and Grable (2004) have studied the relationship between age and financial satisfaction. The results of this study have declined the relationship between age and financial satisfaction. This study found a positive relationship between age and the financial well being, and age and financial literacy but, it has rejected the link between age and financial concerns.


Regarding the relationship between gender and these three variables Kim and Garman (2003) in a research concluded that men are more concerned than women about financial issues. The relationship between gender and financial well-being is denied in Joo and Grable (2004) survey. Lusardi et al. (2010), Dvorak and Hanley (2010), Peng et al. (2007), Volpe et al. (2002) and Chen and Volpe (1998) concluded higher financial literacy in men, and Kindle (2010) has rejected the relationship between financial literacy and gender. Our results showed that men are better than women in financial literacy but the existence of relationship between gender and financial literacy as well as financial concerns is rejected.

Regarding the relationship between these three variables and marital status; in the survey by Joo and Grable (2004) the relationship between marital status and financial well-being is denied and in the study by Volpe et al. (2002) the relationship between marital status and financial literacy was demonstrated and it is stated that married individuals are more financial literate. Our study shows that married people are more financial literate, but the relationship between marital status and financial wellbeing and financial concerns have been rejected.

As mentioned before, several studies provide different results from the relationship between demographic variables with the variables financial literacy, financial concerns and financial wellbeing. There is one explanation for this difference may be due to differences in time and place of the investigation. The change in
the time and place can affect the definition of people from financial wellbeing and financial concerns and their relationship with demographic variables. Economic conditions, technology, values, culture and norms change among communities, changing location and time, and cause changing perceptions such as satisfaction with income and savings, needs, safety, comfort and satisfaction with the distribution of income and bonuses. As in the past that the meaning of financial well-being was happiness or satisfaction with one's financial position or assets but at the present the individual’s perception of material and spiritual aspects of one’s financial situation has meant changing, improving people’s living standards Joo (1998).

This survey showed in studying the relationship between the three variables of financial literacy, financial concerns, and financial well-being that higher financial wellbeing and higher financial concerns may be followed by higher financial literacy also increased financial wellbeing leads to reduced financial concerns. The results of the study is compatible with the results of Kim et al. (2003), Neill et al (2005) who have confirmed the negative impact of the financial wellbeing on financial concerns. The results of this research is also compatible with the research by Tamimi and Kalli (2009) who proved the positive impact of financial literacy on financial wellbeing and with the research by Joo and Grable (2004), Williams et al. (1996) and Cude (2010) who have demonstrated the negative impact of financial literacy on financial concerns.

Interactions of living and working, losses, benefits and daily events will largely depend on personal financial management. Individual’s financial management abilities in organizational and personal life is also due to high financial literacy. Financial literacy provides the background of one’s successful participation in economic activities through increased savings, correct purchasing decision, proper investing, asset management, employing insurance, debt, credit management and enhances the financial well-being. On the other hand, the financial literacy cause reduced financial concerns through improved ability to meet the needs and provide compatibility between financial income and expenses. High financial literacy also makes human assessing their financial position reasonably, understanding economic situation, and being less stressful and worried in financial issues.

In addition to the restrictions in the field and data collection methods, the researcher in this study was associated with limitations in the precise measurement of financial literacy, financial concerns, and financial well-being. No questionnaire was provided in Iran until now so that it's cultural, social and economic situation has been considered in its design. The questionnaire used in this study has been designed in other countries. The researchers have translated the questionnaire and used their reliability and validity assessment. These types of questions can affect the validity of the results. In this regard, it is suggested to design a questionnaire to assess the accuracy of these three variables considering the social, cultural and economic situation of Iran and other countries in a comprehensive study. Also it is suggested for future research to conduct such researches in other classes and compare its results with ours and investigate the relationship between financial literacy, financial wellbeing and financial concerns with psychological characteristics. Finally, it is suggested to conduct a survey in order to study major causes of financial concerns and the proposed solutions to resolve them.

References


