**Original Research Article**

**The Impact of Financial Capability on Financial Well-Being: The Mediating Role of Risk-Taking Ability**

**ABSTRACT**

**Aims:** The present empirical study sought to investigate the interconnections among financial capability, risk-taking ability, and financial well-being for women from a Sri Lankan perspective.

**Methodology:** The study population consists of working women who belong to the formal sector in Sri Lanka and the respondents were selected using a purposive sampling method. The relevant data for this were collected in the form of an online survey using a Google Form from 198 respondents. Data collected were analyzed using descriptive, correlation, and regression models.

**Results and Conclusion:** The findings of the study revealed that there are strong relationships between financial capability and the risk-taking ability of women with financial well-being. Furthermore, the study emphasized the role of the mediating role of risk-taking ability on the relationship between financial capability and financial well-being.

**Practical Implications:** The findings of a study highlight the need for more holistic financial education programs focusing not only on improving basic financial capability but also on developing individuals' risk assessment and management skills. By fostering a balance between financial capability and responsible risk-taking, practitioners can better equip individuals to make informed financial decisions which in turn improves the long-term financial well-being of employed women.

**Originality:** This is one of the first studies in financial well-being literature, that investigates the mediating role of risk-taking ability in financial well-being of women in the context of Sri Lanka where a majority of the studies are conducted focusing on the respondents in general while ignoring the risk component.

***Keywords:*** *Financial Capability, Financial Well-Being, Risk-Taking Ability, Women*

## 1. INTRODUCTION

Financial well-being has become increasingly more important as an area of study for policymakers and researchers in developed and developing economies. The issue of financial well-being has gained momentum and coverage since the Global Financial Crisis (GFC) of 2018, which had its origins in the financial systems of North America and Europe. However, the issue of personal financial indebtedness is not only a Western issue and is commonplace in developing countries as well, especially in less industrialized economies where subsistence farming is prevalent.

The economic backdrop in which this study is conducted is somewhat unique as Sri Lanka is presently experiencing the worst economic crisis since independence. The Government of Sri Lanka (GoSL) defaulted on its sovereign debt in April 2022 causing exchange rate volatility, hyperinflation, and shortages of essentials including food, medicines, and fuel. Remedial action implemented including import restrictions and the floating of the Sri Lankan rupee resulted in an unstable business environment leading to a drastic contraction in economic activity levels and unemployment in certain segments of the labour force. GoSL is currently in the process of implementing the structural changes required to put Sri Lanka on a more sustainable debt and consequently, a growth path with the Extended Fund Facility (EFF), approved by the International Monetary Fund (IMF) Board in March 2023. The ultimate impact of the sovereign debt-led foreign exchange crisis on the Sri Lankan labour force and the wider socio-economic implications are still largely unknown. However, the rising cost of living, higher income taxes, and restricted access to capital and finances have resulted in significant financial stress on households and individuals, evident through observed social phenomena such as strikes both in public and private sector organizations, increased levels of skilled and unskilled migration and higher employee turnover as workers seek higher salaries and alternative modes of employment.

In the prevailing conditions and context of Sri Lanka, where there are higher levels of poverty and a larger proportion of the population living in rural areas and access to financial resources is more through informal and community-based methods, but also more and more women seeking to leave traditional gender-based roles and occupations for work in the formal sector, isolating the context in which the financial wellbeing of women is studied is pivotal. Therefore, the focus of this study would be on the financial well-being of women employed in the formal sector in Sri Lanka. A company operating in the formal sector would be any firm legally incorporated in Sri Lanka, contributing to income and other relevant taxes, and those which have access to finance and capital through the formal banking and financial services sector. Since the study hopes to understand the Risk-taking behaviors of women and their financial capabilities would be different in the formal sector as compared to the informal sector, the latter was chosen as the preferred area of attention where the individual is placed on a risk spectrum ranging from risk-averse or low-risk tolerance to risk seeking or high-risk tolerance which would be their risk propensity or risk appetite.

Therefore, this study attempts to shed light on the Sri Lankan context, specifically women, to study the impact of financial capability on financial well-being with the mediator of risk-taking ability as in the search for an area of study relatively unexplored in the context of financial well-being, it is evident that the relationships have not been researched or documented in the context of developing economies, specifically women in Sri Lanka.

## 1.1 Research Gap

Although financial well-being is theoretically similar for both genders, research indicates gender differences affect its manifestation. Additionally, women globally earn about 20% less than men (International Labour Organization, 2022). Conversely, women's financial capabilities are progressively improving in various regions. Moreover, women's educational levels, labor force involvement, and entrepreneurial pursuits have markedly increased in recent decades. Consequently, women possess greater financial autonomy and decision-making power.

However, challenges persist regarding women's financial capabilities. They often encounter wage gaps, restricted access to credit and financial services, and societal norms that hinder financial independence. Such factors can adversely affect their wealth accumulation, investment, and prudent financial decision-making.

Furthermore, women are less financially literate than men (Al-Bahrani et al., 2020; Gerrans et al., 2014; Karakurum-Ozdemir et al., 2019; Kirbi et al., 2017), more risk-averse when it comes to financial decision making (Borghans et al., 2009; Grable, 2000), and financially socialize later compared to men (Falahati & Paim, 2011). A literature review done by Singh and Malik (2022) revealed that women seem to be more wary of risk and have less confidence in their investment decisions than men. Women's risk-taking ability is a significant predictor of financial capability and well-being concepts. It has the potential to influence women's decisions in a given socioeconomic setting.

Despite these facts, when psychological factors are taken into account, it is found an increased amount of research studies whereby no significant distinctions between men and women were observed (Furnham & Cheng, 2017). Borghans et al. (2009) state that women appear to be more risk-averse and have less confidence in how they make investments than men, according to the studies reviewed. Other studies on traits, values, and psychological factors (Norvilitis et al., 2006; Ponchio et al., 2019) have thrown light on individual predecessors of financial well-being; however, certain studies have either not explored feasible gender disparities underlying the traits examined or have found no significant variations between men and women, indicating that the research field on psychological elements still has potential avenues for future research (Gonçalves, Ponchio & Basílio, 2021).

Furthermore, women's risk-taking ability is a significant predictor of financial capability and well-being concepts. It has the potential to influence women's decisions in a given socioeconomic context. Because currently, available research fails to address the risk dimension, future research should include it while studying this relationship (Parvathy & Kumar, 2022). Although there have been a few studies on the above-mentioned behavioural factors (Sorgente & Lanz, 2017), there is still a need to investigate the relationship between financial well-being and specific behaviours such as insurance and risk-taking (Singh & Malik, 2022).

In addition, the majority of studies on financial well-being have been carried out in developed countries (Ngamaba et al., 2020), and there is a significant gap in understanding the financial well-being of individuals from developing and poor countries (Brüggen, Hogreve, Holmlund, Kabadayi & Löfgren, 2017). Because of differences in contextual factors such as culture, society, and family characteristics, financial well-being solutions proposed for developed countries may be difficult for non-developed countries. As a result, studies on financial well-being in developing countries are needed to figure out their state and problems (Parvathy & Kumar, 2022).

However, the current state of knowledge does not cover the risk dimension and adequate literature about the relationships between financial capability, risk-taking ability, and financial well-being is not available, hence this is still an under-researched area. Further, most of the research on these constructs is conducted focusing on the respondents as general and there can be differences across the cultures of developing and developed countries. This indicates the presence of a clear knowledge gap in this area of study and there is a need to incorporate the risk element while studying the relationship between financial capability and financial well-being. Therefore, it is noteworthy to study the interconnections among financial capability, risk-taking ability, and financial well-being, especially for women in a developing country perspective, particularly Sri Lanka. The specific research objectives of the study are;

1. To identify the relationship between the financial capability of women, on the financial well-being of women, in Sri Lanka.
2. To explore the mediating effect of the risk-taking ability of a woman in Sri Lanka on her financial well-being.

The rest of the paper embodies the sections including literature review, conceptual framework, research methodology, analysis and results, and conclusion and implications.

# 2. LITERATURE REVIEW

## 2.1 Financial Well-Being

Financial well-being is defined by Porter and Garman (1990) as an individual's perception of the features of their financial state in relation to specific standards. Financial well-being is a state of mind produced by an operational financial process known as financial wellness; financial attitude and knowledge produce financial behaviour, and healthy financial behaviour is responsible for producing a high degree of financial well-being (Shim et al., 2009).

Financial well-being is defined as self-satisfaction with one's current financial situation, assurance of meeting conventional costs of living and emergency costs, having the ability to pursue one's interests, and confidence in one's future retirement (Mahdzan et al.,2020). Males and females have different levels of financial well-being, which can be attributed to the distinctive impacts of socialization agents and early years experiences for customers (Falahati & Sabri, 2015).

Financial well-being is defined as having both present and future financial security and financial freedom of choice (CFPB, 2015). Many researchers (Mahdzan et al., 2020) in this area use the conceptual model developed by Bruggen et al. (2017), where FWB was defined as "the perception of being able to sustain current and anticipated desired living standards and financial freedom". This definition emphasizes FWB's two components: current money management stress and expected future financial security.

Given that the definition provided by CFPB (2015) is more comprehensive than the others, this study uses it to define FWB. Financial well-being is defined as the ability to meet one's current and future financial commitments, as well as an individual's assurance of his current financial standing and the autonomy to carry out one's daily life as well as future aspirations without financial impediments (Parvathy & Kumar, 2022). However, there is a lack of agreement and clarity in prior research about how financial well-being has been measured and defined (Sorgente & Lanz, 2017). In this study, financial well-being is considered as the state of possessing both present and future financial security, along with the freedom to make financial choices according to one's preferences.

## 2.2 Financial Capability

Financial capability is not precisely defined in the literature (Sherraden & Ansong, 2016). According to Bolaji-Adio et al. (2013), financial capability is the internal capacity to act in one's best financial interest provided social, economic, and environmental circumstances.

Johnson and Sherraden (2007) define financial capability as the combination of a person's "ability to act" and "opportunity to act," and Sherraden and Ansong (2016) operationalize this definition by identifying the earlier with financial literacy and the second with financial inclusion, though this approach is not lacking complexity, as both components are multidimensional concepts in and of themselves. Sherraden and Ansong (2016) recommend, from a theoretical standpoint, that the various measures of financial capability reflect both financial literacy (i.e. financial knowledge and skills) and financial inclusion (i.e. accessibility to and usage of financial services and products); and provide adaptability for context-specific operationalization, which means that the measures of financial capability could differ between and within nations or regions.

This study refers to financial capability as an individual's or entity's overall ability to manage their financial resources effectively, make informed decisions, and achieve financial well-being while having access to financial resources regardless of their socioeconomic position.

## 2.3 Risk-Taking Ability

According to a study conducted by Callan and Johnson (2002), individual risk attitudes have two components: an expressed element concerning the person's beliefs and an unstated element reflecting the person's feelings and emotions. They tried to convey an individual's risk tolerance explicitly and comprehensibly in order that they could identify acceptable trade-offs between risk and the financial reward needed for bearing risk.

Lampenius and Zickar (2005) defined the two dimensions of financial risk attitude as Risk Control and Speculative Risk in their study on financial risk attitude. The stimulating aspect of risk-taking is the individual's proclivity for risk-taking. It captures an individual's gambling behaviour and the appealing option that by accepting a higher level of risk, the expected return will increase (Zaleskiewicz, 2001; Lampenius & Zickar, 2005). Similarly, risk control is the individual’s tendency towards the risk-averse side. It influences the decision-maker by reminding him/her that by accepting a higher level of risk, the potential for future losses will increase (Zaleskiewicz, 2001; Lampenius & Zickar, 2005). In this study, risk-taking ability is considered as an individual's inclination and capacity to engage in both risk-seeking behaviors and risk-avoidance strategies.

**2.4 Financial Capability and Financial Well-being**

Financial capability is defined as the combination of financial literacy and financial behaviour that leads to financial well-being. Higher financial capability is linked to greater financial well-being (Xiao, 2016). Empirical evidence suggests that financially capable individuals are less inclined to be financially exposed and that the "opportunity to act" (i.e. financial inclusion) serves a more significant part in improving household financial health than the "ability to act" (i.e. financial literacy) (Fernández-López et al., 2023). The study findings of Parvathy and Kumar (2022) revealed a significant relationship between financial capability and financial well-being. According to the findings of Fu's (2020) study, individual financial literacy and financial inclusion are highly predictive of an individual's financial well-being. The following hypothesis is formulated on the basis of the above literature evidence:

*H1: There is a positive relationship between Financial Capability and Financial Well-Being.*

## 2.5 Financial Capability and Risk-Taking Ability

Higher levels of attained education and income have been found to be correlated positively with a greater willingness to take financial risks, according to the financial knowledge literature (Bayar, Sezgin et al., 2020; Duasa & Yusof 2013; Nosita et al. 2020).

Significant evidence, however, suggests that financial knowledge can predict financial risk-taking behaviours (Tang & Baker, 2016). Financial literacy/financial knowledge level and financial risk tolerance have been found to be positively associated with studies in this field (Saurabh & Nandan, 2019). Other well-cited studies have confirmed the existence of positive associations between financial literacy and financial risk tolerance (Bayar et al., 2020; Bannier & Neubert, 2016; Chatterjee et al., 2017). On the contrary, Aydemir and Aren (2017) found an opposite relationship between financial literacy and financial risk tolerance. That is, financial experts prefer riskier alternatives to people with low-risk perceptions, thus inducing positive behavioural beliefs towards the behaviour. Based on this premise, since financial knowledge is considered one of the components of financial capability, the following hypothesis is developed.

*H2: There is a positive relationship between Financial Capability and Risk-Taking Ability.*

## 2.6 Risk-Taking Ability and Financial Well-Being

Individuals possess both elements of financial risk-taking, namely the tendency to be controlled or averse to risk in some circumstances and the tendency to take that risk in others. As a result, the Risk Control and Speculative Risk aspects of financial risk-taking attitudes were found to be present in individuals (Zaleskiewicz, 2001).

The driving force for the tendency towards risk control behaviour is that it allows the individual to constructively plan towards accomplishing a specific investment goal. Furthermore, risk-averse people always want to be certain of their future and thus be able to plan how they want to prioritize their goals. Those who tend to be more willing to take risks have higher levels of financial satisfaction (Sages & Grable, 2010). Individuals with high-risk tolerance behaviour were found to be far more satisfied with their financial situation, implying that risk tolerance behaviour plays a positive role in estimating financial satisfaction (Aboagye & Jung, 2018). Furthermore, there have been studies that show a negative relationship between risk tolerance and financial satisfaction (i.e. Joo & Grable, 2004). Hence the following hypothesis is formulated to test the relationships.

*H3: There is a positive relationship between Risk-Taking Ability and Financial Well-Being.*

## 2.7 Mediating Role of Risk-Taking Ability Between Financial Capability and Financial Well-Being

The concept of risk has been investigated from risk aversion (Arrow, 1971) and risk tolerance (Gron & Winton, 2001; Grable, 2000) perspective. In the contexts of satisfaction with loyalty, assessment of products with preference (Gurhan Canli & Batra, 2004), and incongruity with evaluation (Campbell & Goldstein, 2001), risk has been considered a moderator. Worthy, Jonkman and Blinn-Pike (2010) confirmed the relationship between financial risk along with financial management behaviour in the setting of credit cards with financial debt issues. This study argues that risk-taking ability can be a mediator between Financial Capability and Financial Well-Being and proposes the following hypothesis:

*H4:* *Risk-taking ability mediates the relationship between Financial Capability and Financial Well-Being.*

## 3. CONCEPTUALIZATION

The following figure shows the conceptual model developed for this study. In this study, the independent variable is financial capability, financial well-being is considered dependent, and risk-taking ability is treated as a mediating variable.

**H3**

**H1**

**H2**

Financial Capability (FC)

Financial Wellbeing (FWB)

Risk Taking Ability (RTA)

**Figure1: Conceptual Model**

**H4**

*(Source: Developed for the study purpose)*

**3.1 Theoretical Support for Conceptualization**

The importance of psychological aspects is recognized in the theory of planned behavior (Ajzen, 1991), which examines the attitude-behavior relationship. According to the theory of planned behavior (TPB), among other factors, attitude shapes behavior intentions and behaviors. Shim et al. (2010) observed a positive relationship between attitude and financial management behavior.

Financial capability refers to an individual's knowledge, skills, and access to resources that enable them to manage their finances effectively. People with higher financial capability are more likely to have a better understanding of the risks associated with different financial decisions, such as investments or borrowing, and are better equipped to make informed choices.

Risk-taking ability, in this context, relates to an individual's willingness to take financial risks. Financial well-being is considered the perception of being able to sustain current and anticipated desired living standards and financial freedom.

According to TPB, financial capability affects the individual’s intention to take risks, which is the risk-taking ability and both together account for the individual’s financial behavioural aspects, the financial well-being.

# 4. RESEARCH DESIGN

## 4.1 Research Strategy

This study followed a positivistic philosophy in which the researcher believes that knowledge in the environment can be gained through observation, collects and analyses data objectively, findings are quantifiable, and hypotheses are formulated that can be tested and verified.

Further, this study employs a deductive methodology, whereby the researcher first develops a theory about the subject of interest, then refines that theory into more precise hypotheses and conducts the study in a non-contrived study setting. The quantitative method was the most appropriate methodological choice for this sort of study since it involves the collection of quantitative data using predetermined instruments and the researcher uses mathematical models as the methodology of data analysis.

## 4.2 Sampling procedure

The target population of this study constitutes of working women who belong to the formal sector in Sri Lanka. Formal employees are the workers whose employer contributes to the provident fund on behalf of them (Arunatilake & Ranasinghe, 2023).

Since the data regarding the study population is not available, according to Krejcie and Morgan (1970), 384 samples must be used, which is the maximum number of samples that need to be included with a confidence level of 95% and a margin of error of 5%. Having decided on the likely suitable sample size, this study employs the purposive sampling technique of the non-probability sampling method. Accordingly, the study ended up collecting data from 198 respondents with a response rate of 51.58%.

## 4.3 Data collection

This study has used a survey strategy which enabled the researchers to collect a huge amount of data from a sizeable target population. The data collected was analyzed using descriptive and inferential analysis tools. To gather primary data, a self-reporting questionnaire was issued to all the women working in the formal sector in Sri Lanka. In addition, secondary data were collected based on various sources such as journal articles published papers, and websites of the relevant institutions.

## 4.4 Data analysis

To analyze the first objective, this study utilized bivariate correlation analysis. The direction, strength, and significance of the bivariate relationship between the variables were evaluated by the Pearson correlation coefficient. According to Gogtay & Thatte (2017), the correlation coefficient values (r) ranging from 0.10 to 0.29 are considered weak, from 0.30 to 0.49 are considered medium and from 0.50 to 1.0 are considered strong.

In order to achieve the mediational effect of risk-taking ability this study followed Heyes PROCESS Model 4. Process Macro constitutes a bootstrapping statistical computational tool developed by Andrew Hayes as an enhancement for both SPSS and SAS software platforms (Hayes, 2013). This program is employed to investigate the influence of one or more mediating or moderating variables on the correlation between independent and dependent variables. The software calculates the direct, indirect, and total effects of variable X on variable Y, in addition to providing unstandardized and standardized regression coefficients, standard errors, and various statistical measures including t and p values as well as R² (Abu-Bader & Jones, 2021).

A test of statistical significance as proposed by Sobel (1982) will be used to test the statistical significance of the mediation. The Sobel test involves the multiplication of a and b coefficient estimates and determining the ratio of the resulting value to standard error. Sobel (1982) proposed the use of the following formula:

$$\frac{ab}{\sqrt{b^{2}S\_{a}^{2}+a^{2}S\_{b}^{2}}}$$

Z =

Where,

 a - path between the independent variable and mediator variable

Sa - standard error of a path (coefficient)

b - path between the mediator variable and the dependent variable

Sb -standard error of path b

## 4.5 Operationalization

The questionnaire for the study is divided into four parts. In the first part of the questionnaire, the demographic details of the respondents are included. The second part consists of questions related to the study variables which are adopted from the extant literature. To measure financial Well-Being, ten question items are adopted from a scale developed by the CFPB (2015). Similarly, the scale for risk-taking ability is adapted from a prior empirical study by Lampenius and Zickar (2005) which consists of ten questions where five relate to speculative risk and five relate to risk control. The financial capability was constructed by combining different measures of financial knowledge and financial inclusion where five items from Perry and Morris (2005) and eight items from Mindra and Moya, (2017) were adopted respectively. The survey items were graded on a five-point Likert scale, with 1 referring to strongly disagree and referring to strongly agree. The reliability of the instrument was measured using Cronbach’s Alpha Coefficient (CAC) analysis where values above 0.7 were considered in this study to be reliable.

**Table 1: Reliability and Validity Analysis for Overall Variables**

|  |  |  |
| --- | --- | --- |
| **Variable** | **Number of Question Items** | **Cronbach’s Alpha Value** |
| Financial Capability | 13 | 0.924 |
| Risk Taking Ability | 10 | 0.859 |
| Financial Wellbeing | 10 | 0.821 |

 *(Source: Survey Data)*

**5. ANALYSIS AND RESULTS**

**5.1 Demographic Profile**

The demographic data was gathered and analyzed using descriptive analysis. The table 3 provides a demographic profile of 198 respondents based on their age, educational level, marital status, and occupational group. The age distribution shows that the majority of respondents (48.5%) are aged between 25 to 34, followed by 34.8% in the age group of 18–24. Smaller proportions are observed in older age groups, with only 1.5% being 55–65 years old.

In terms of educational level, most of the respondents (59.1%) hold a degree or Higher National Diploma (HND), while 19.7% have a Diploma, 16.7% possess a master’s degree, and 4.5% possess a certificate-level qualification. Marital status reveals that 63.6% of the respondents are single, and 36.4% are married.

It was also found that the largest group of respondents (48.5%) are professionals, followed by clerks and clerical support workers at 21.2%, and managers, senior officials, and legislators at 16.7%. The smallest occupational categories are services and sales workers accounting for 10.6% and technicians and associate professionals accounting for only 3.0%.

**Table 2: Demographic Profile of the Respondents**

|  |  |  |  |
| --- | --- | --- | --- |
| **Demographic Factor** | **Category** | **Number of Respondents** | **Percentage** |
| **Age** | 18 – 24 | 69 | 34.8 |
| 25 – 34 | 96 | 48.5 |
| 35 – 44 | 24 | 12.1 |
| 45 – 54 | 6 | 3.0 |
| 55 – 65 | 3 | 1.5 |
| **Total** | **198** | **100** |
| **Educational Level** | Certificate | 9 | 4.5 |
| Diploma | 39 | 19.7 |
| Degree/HND | 117 | 59.1 |
| Masters | 33 | 16.7 |
| **Total** | **198** | **100.0** |
| **Marital Status** | Single | 126 | 63.6 |
| Married | 72 | 36.4 |
| **Total** | **198** | **100.0** |
| **Occupational Group** | Managers, Senior Officials and Legislators | 33 | 16.7 |
| Professionals | 96 | 48.5 |
| Technicians and Associate Professionals | 6 | 3.0 |
| Clerks and clerical support workers | 42 | 21.2 |
| Services and sales workers | 21 | 10.6 |
|  **Total** | **198** | **100.0** |

*(Source: Survey Data)*

**5.2 Correlation Analysis**

To analyze the first three hypotheses to test the associations between various study variables Pearson’s correlation analysis was used in this study.

**Table 3: Correlation Matrix**

|  |  |  |
| --- | --- | --- |
| **Relationship** | **Pearson Correlation coefficient** | **Significant Value** |
| Financial Capability and Financial Wellbeing | 0.503 | 0.000 |
| Financial Capability and Risk-Taking Ability | 0.636 | 0.000 |
| Risk-Taking Ability and Financial Wellbeing | 0.634 | 0.000 |

*(Source: Survey Data)*

Table 4 shows the results of correlation analysis between the study variables. The results reveal that the correlation coefficient (r) value between financial capability and financial well-being is 0.503 with a p-value of 0.000. This indicates there is a strong positive correlation between financial capability and financial well-being, indicating that higher financial capability is associated with greater financial well-being. Similarly, the correlation coefficient (r) value between financial capability and risk-taking ability is 0.636 with a statistically significant p-value of 0.000. This indicates there is a strong positive correlation between financial capability and risk-taking ability, suggesting that individuals with higher financial capability tend to have a greater willingness to take risks. Finally, the correlation coefficient (r) value between risk-taking ability and financial well-being is 0.634 with a statistically significant p-value of 0.000 which means that individuals who are more willing to take risks also tend to have higher financial well-being.

**5.3 Mediation Analysis**

Mediation analysis was used to investigate the hypothesis that risk-taking ability mediates the relationship between financial capability and financial well-being. Mediation analysis was conducted using Model 4 of PROCESS Macro for SPSS. The analysis aimed to examine the relationship between financial capability (X), risk-taking ability (M), and financial well-being (Y) and to determine if the effect of X on Y was mediated by M.

**Table 4: Total Effect Model**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Predictor** | **Coefficient** | **P-Value** | **LLCI** | **ULCI** |
| Constant | 1.478 | 0.000 | 1.050 | 1.906 |
| Financial Capability | 0.449 | 0.000 | 0.341 | 0.558 |
| Outcome: Financial Well-Being |

*(Source: Survey Data)*

The results showed that financial capability positively predicted financial well-being (B = 0.150, p=0.018) which shows the direct effect of financial capability on financial well-being in the presence of the mediator. Risk-taking ability also had a positive effect on financial well-being (B= 0.548, p=0.000).

**Table 5: Direct Effect Model**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Predictor** | **Coefficient** | **P-Value** | **LLCI** | **ULCI** |
| Constant | 0.658 | 0.003 | 0.222 | 1.095 |
| Financial Capability | 0.150 | 0.018 | 0.026 | 0.274 |
| Risk-Taking Ability | 0.548 | 0.000 | 0.403 | 0.693 |
| Outcome: Financial Well-Being |

*(Source: Survey Data)*

The results revealed, that financial capability (B=0.150, p=0.018) had a significant direct effect on financial well-being with the mediator in the model and a significant indirect effect of financial capability on financial well-being, which means that partial mediation was observed. The indirect effect of X on Y through risk-taking ability was significant as the confidence intervals based on 5,000 bootstrap samples did not contain zero (B=0.299, 95% confidence interval are 0.214, 0.456). The model accounted for a total of 41.9% of the variance of the dependent variable. The mediation analysis summary is presented in Table 6.

**Table 6: Mediation Analysis Summary**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Relationship** | **Total Effect** | **Direct Effect** | **Indirect Effect** | **Confidence Interval** | **R-Square** | **Conclusion** |
| **Lower Bound** | **Upper Bound** |
| Financial Capability >>>Risk-Taking Ability >>>> Financial Well-Being | 0.449\*\* | 0.150\*\* | 0.299\*\* | 0.197 | 0.405 | 0.419\*\* | Partial Mediation |
| \*\*significant at the 0.05 level |

*(Source: Survey Data)*

The statistical significance of the mediation has been tested using a statistical significance test proposed by Sobel (1982). Values of regression coefficients have been applied to the Sobel calculator and the results are as follows:

$$\frac{ab}{\sqrt{b^{2}S\_{a}^{2}+a^{2}S\_{b}^{2}}}$$

Z =

$$\frac{0.299}{\sqrt{0.548^{2}x0.074\_{a}^{2}+0.546^{2}x0.052\_{b}^{2}}}$$

Z =

Z = 5.752

According to Mallinckrodt, Abraham et al. (2006), since the z-score (5.752) is greater than 1.96, the mediation is statistically significant at a 5% significance level. That means the risk-taking ability of women significantly carries the influence of financial capability on financial well-being.

Hence, risk-taking ability partially mediates the relationship between financial capability and financial well-being. These results suggest that improving financial capability can lead to an increase in risk-taking ability, which in turn may increase the financial well-being of women.

# 6. CONCLUSIONS AND IMPLICATIONS

## 6.1 Findings of the Study

The results of the H1 analysis indicate that there is a strong positive correlation between financial capability and financial well-being, indicating that higher financial capability is associated with greater financial well-being. The finding empirically supports the findings of earlier studies. (BCFP, 2018; Anthony & Sabri, 2019; Sabri & Zakaria, 2018; Parvathy & Kumar, 2022). Women exhibit improved financial task performance and outcomes when their financial competencies align with suitable attitudes and behaviours.

The results of the H2 analysis suggest there is a strong positive correlation between financial capability and risk-taking ability, suggesting that individuals with higher financial capability tend to have a greater willingness to take risks. This is in line with the earlier findings of (Tang & Baker, 2016; Nosita et al. 2020). Women possessing advanced financial knowledge can discern the intricacies of financial products and associated risks, enabling them to manage risks confidently while pursuing potential rewards. Access to financial services equips individuals with resources to undertake riskier financial activities, whereas a lack of financial capability often results in risk aversion due to uncertainty.

The present study also revealed a strong positive relationship between risk-taking ability and financial well-being. This supports the findings of Sages and Grable (2010), that those who tend to be more willing to take risks have higher levels of financial satisfaction. Individuals who embrace risk are likely to invest in higher-return opportunities, enhancing long-term financial health; conversely, poor risk management can lead to financial detriment.

## Grounded in the theory of planned behavior, this investigation reveals that both direct and indirect impacts of financial capability on financial well-being are statistically significant, suggesting that risk-taking propensity partially mediates this relationship. This research represents a foundational empirical study that clarifies the connection between financial capability and financial well-being, with risk-taking propensity as a mediating factor. It is essential to enhance the financial capability, risk-taking propensity, and overall financial well-being of women from middle and low-income backgrounds, as these elements can significantly foster familial and societal progress.

## 6.2 Implications of the Study

When women possess substantial financial capability, they exhibit increased confidence in risk-taking due to their comprehension of investment principles and access to varied financial products. Their enhanced understanding of potential returns enables informed investment decisions. Conversely, limited financial capability may lead to greater risk aversion among women.

The theoretical contributions of this study are multifaceted. First, while financial capability, risk-taking ability, and financial well-being have been examined separately, their combined impact remains unexplored. This study introduces a theoretical model to elucidate the mediating role of risk-taking ability in the nexus between financial capability and financial well-being, an aspect previously overlooked in the literature. Second, existing research primarily addresses financial capability and well-being without distinguishing gender differences; this study emphasizes such disparities.

By investigating constructs like financial capability, risk-taking ability, and financial well-being, the study enriches the literature, recognizing cultural variances in these constructs addressing the scarcity of studies in the Sri Lankan context.

Overall, this research bears significance for policymakers, regulators, and organizations by facilitating the development and evaluation of initiatives aimed at enhancing women's financial well-being. The study's findings underscore the imperative for comprehensive financial education programs, advocating that financial institutions, NGOs, and policymakers focus on augmenting fundamental financial capabilities alongside risk assessment and management skills. By fostering a balance between financial capability and prudent risk-taking, practitioners can better equip individuals for informed financial decision-making, ultimately leading to improved financial outcomes and sustained prosperity.

# APPENDICES

## Appendix A – Ethical Clearance

During the data collection, voluntary participation of the respondents was obtained. The researcher provided sufficient information and assurances about participating in the survey to allow individuals to understand the implications of participation. The study subjects were told that the information they provided will be kept confidential and that their identities would not be revealed in association with the information they provided. Informed consent was secured from each participant. Also, questionnaires were prepared in an understandable manner by a normal person.

Furthermore, acknowledegment of works of other authors used in any part of the study were provided with the use of the American Psychological Association (APA) reference method and the full list of reference was attached. The highest level of objectivity in discussions and analyses throughout the research was maintained.

# REFERENCES

Aboagye, J., & Jung, J. Y. (2018). Debt holding, financial behavior, and financial satisfaction. *Journal of Financial Counseling and Planning*, *29*(2), 208-218.

Ajzen, I. (1991). The theory of planned behavior. *Organizational behavior and human decision processes*, *50*(2), 179-211.

Al-Bahrani, A., Buser, W., & Patel, D. (2020). Early causes of financial disquiet and the gender gap in financial literacy: Evidence from college students in the Southeastern United States. *Journal of Family and Economic Issues*, *41*, 558-571.

Anthony, R., & Sabri, M. F. (2019). The impact of a financial capability program on the financial well-being of medical practitioners. *management*, *6*, 344.

Arrow, K. J. (1971). Insurance, risk and resource allocation. *University of Illinois at Urbana-Champaign's Academy for Entrepreneurial Leadership Historical Research Reference in Entrepreneurship*.

Arunatilake, N., & Ranasinghe, S. (2023, February 27). Promoting Access to Decent Work in Sri Lanka. *Invest in economic sectors that are more likely to generate more productive jobs.*

Bannier, C. E., & Neubert, M. (2016). Gender differences in financial risk taking: The role of financial literacy and risk tolerance. *Economics Letters*, *145*, 130-135.

Baron, R. M., & Kenny, D. A. (1986). The moderator–mediator variable distinction in social psychological research: Conceptual, strategic, and statistical considerations. *Journal of personality and social psychology*, *51*(6), 1173.

Bayar, Y., Sezgin, H. F., Öztürk, Ö. F., & Şaşmaz, M. Ü. (2020). Financial literacy and financial risk tolerance of individual investors: Multinomial logistic regression approach. *Sage Open*, *10*(3), 2158244020945717.

Bayar, Y., Sezgin, H. F., Öztürk, Ö. F., & Şaşmaz, M. Ü. (2020). Financial literacy and financial risk tolerance of individual investors: Multinomial logistic regression approach. *Sage Open*, *10*(3), 2158244020945717.

Bolaji-Adio, A., Iarossi, G., Perotti, V., & Zottel, S. (2013). Making sense of financial capability surveys around the world: a review of existing financial capability and literacy measurement instruments. *Disclosure*.

Borghans, L., Heckman, J. J., Golsteyn, B. H., & Meijers, H. (2009). Gender differences in risk aversion and ambiguity aversion. *Journal of the European Economic Association*, *7*(2-3), 649-658.

Borghans, L., Heckman, J. J., Golsteyn, B. H., & Meijers, H. (2009). Gender differences in risk aversion and ambiguity aversion. *Journal of the European Economic Association*, *7*(2-3), 649-658.

Brüggen, E. C., Hogreve, J., Holmlund, M., Kabadayi, S., & Löfgren, M. (2017). Financial well-being: A conceptualization and research agenda. *Journal of business research*, *79*, 228-237.

Bureau, C. F. P. (2015). Measuring financial well-being: A guide to using the CFPB financial well-being scale. *Washington, DC: Consumer Financial Protection Bureau*.

Callan, V. J., & Johnson, M. (2002). Some guidelines for financial planners in measuring and advising clients about their levels of risk tolerance. *Journal of Personal Finance*, *1*(1), 31-44.

Campbell, M. C., & Goodstein, R. C. (2001). The moderating effect of perceived risk on consumers' evaluations of product incongruity: Preference for the norm. *Journal of consumer Research*, *28*(3), 439-449.

Chatterjee, S., Fan, L., Jacobs, B., & Haas, R. (2017). Risk tolerance and goals-based savings behavior of households: The role of financial literacy. *Journal of Personal Finance, Forthcoming*.

Dinç Aydemir, S., & Aren, S. (2017). Do the effects of individual factors on financial risk-taking behavior diversify with financial literacy?. *Kybernetes*, *46*(10), 1706-1734.

Duasa, J., & Yusof, S. A. (2013). Determinants of risk tolerance on financial asset ownership: A case of Malaysia. *International Journal of Business and Society*, *14*(1), 1.

Falahati, L., & Sabri, M. F. (2015). An exploratory study of personal financial wellbeing determinants: Examining the moderating effect of gender. *Asian Social Science*, *11*(4), 33–42. https://doi.org/10.5539/ ass.v11n4p33

Fernández‐López, S., Álvarez‐Espiño, M., Rey‐Ares, L., & Castro‐González, S. (2023). Consumer financial vulnerability: Review, synthesis, and future research agenda. *Journal of Economic Surveys*.

Fu, J. (2020). Ability or opportunity to act: What shapes financial well-being?. *World Development*, *128*, 104843.

Furnham, A., & Cheng, H. (2017). Socio-demographic indicators, intelligence, and locus of control as predictors of adult financial well-being. *Journal of intelligence*, *5*(2), 11.

Gerrans, P., Speelman, C., & Campitelli, G. (2014). The relationship between personal financial wellness and financial wellbeing: A structural equation modeling approach. *Journal of Family and Economic Issues*, *35*, 145-160.

Gogtay, N. J., & Thatte, U. M. (2017). Principles of correlation analysis. *Journal of the Association of Physicians of India*, *65*(3), 78-81.

Gonçalves, V. N., Ponchio, M. C., & Basílio, R. G. (2021). Women’s financial well‐being: A systematic literature review and directions for future research. *International Journal of Consumer Studies*, *45*(4), 824-843.

Grable, J. E. (2000). Financial risk tolerance and additional factors that affect risk taking in everyday money matters. *Journal of Business and Psychology*, *14*(4), 625–630. https://doi.org/10.1023/A:10229 94314982

Grable, J. E. (2000). Financial risk tolerance and additional factors that affect risk taking in everyday money matters. *Journal of business and psychology*, *14*, 625-630.

Gron, A., & Winton, A. (2001). Risk overhang and market behavior. *The Journal of Business*, *74*(4), 591-612.

Gürhan-Canli, Z., & Batra, R. (2004). When corporate image affects product evaluations: The moderating role of perceived risk. *Journal of marketing research*, *41*(2), 197-205.

International Labour Organization (2022). *Pay transparency can address the gender pay gap.* Retrieved from https://www.ilo.org/global/about-the-ilo/newsroom/news/WCMS\_856203/lang--en/index.htm

Johnson, E., & Sherraden, M. S. (2007). From financial literacy to financial capability smong youth. *J. Soc. & Soc. Welfare*, *34*, 119.

Joo, S. H., & Grable, J. E. (2004). An exploratory framework of the determinants of financial satisfaction. *Journal of family and economic Issues*, *25*, 25-50.

Karakurum-Ozdemir, K., Kokkizil, M., & Uysal, G. (2019). Financial literacy in developing countries. *Social Indicators Research*, *143*, 325-353.

Kirbi, I. S., Vehovec, M., & Galic, Z. (2017). Relationship between financial satisfaction and financial literacy: Exploring gender differences. Drustvena Istrazivanja, 26(2), 165–185. https://doi.org/10.5559/ di.26.2.02

Krejcie, R. V., & Morgan, D. W. (1970). Determining sample size for research activities. *Educational and psychological measurement*, *30*(3), 607-610.

Lampenius, N., & Zickar, M. J. (2005). Development and validation of a model and measure of financial risk-taking. *The Journal of Behavioral Finance*, *6*(3), 129-143.

Lampenius, N., & Zickar, M. J. (2005). Development and validation of a model and measure of financial risk-taking. *The Journal of Behavioral Finance*, *6*(3), 129-143.

Lampenius, N., & Zickar, M. J. (2005). Development and validation of a model and measure of financial risk-taking. *The Journal of Behavioral Finance*, *6*(3), 129-143.

Mahdzan, N. S., Zainudin, R., Abd Sukor, M. E., Zainir, F., & Wan Ahmad, W. M. (2020). An exploratory study of financial well-being among Malaysian households. *Journal of Asian Business and Economic Studies*, *27*(3), 285-302.

Ngamaba, K. H., Armitage, C., Panagioti, M., & Hodkinson, A. (2020). How closely related are financial satisfaction and subjective well-being? Systematic review and meta-analysis. *Journal of Behavioral and Experimental Economics*, *85*, 101522.

Norvilitis, J. M., Merwin, M. M., Osberg, T. M., Roehling, P. V., Young, P., & Kamas, M. M. (2006). Personality factors, money attitudes, financial knowledge, and credit‐card debt in college students 1. *Journal of applied social psychology*, *36*(6), 1395-1413.

Nosita, F., Pirzada, K., Lestari, T., & Cahyono, R. (2020). IMPACT OF DEMOGRAPHIC FACTORS ON RISK TOLERANCE. *Journal of Security & Sustainability Issues*, *9*(4).

Parvathy, V. K., & Kumar, J. (2022). Financial capability and financial wellbeing of women in community-based organizations: mediating role of decision-making ability. *Managerial Finance*, *48*(9/10), 1513-1529.

Perry, V. G., & Morris, M. D. (2005). Who is in control? The role of self‐perception, knowledge, and income in explaining consumer financial behavior. *Journal of consumer affairs*, *39*(2), 299-313.

Perry, V. G., & Morris, M. D. (2005). Who is in control? The role of self‐perception, knowledge, and income in explaining consumer financial behavior. *Journal of consumer affairs*, *39*(2), 299-313.

Ponchio, M. C., Cordeiro, R. A., & Gonçalves, V. N. (2019). Personal factors as antecedents of perceived financial well-being: evidence from Brazil. *International Journal of Bank Marketing*, *37*(4), 1004-1024.

Porter, N. M., & Garman, E. T. (1990). A conceptual framework for measuring financial well-being. *1990 Annual Proceedings of the Association for Financial Counseling and Planning Education: Many Perspectives Coming Together*, 142-152.

Sabri, M. F., & Zakaria, N. F. (2015). Financial well-being among young employees in Malaysia. In *Handbook of research on behavioral finance and investment strategies: Decision making in the financial industry* (pp. 221-235). IGI Global.

Sages, R. A., & Grable, J. E. (2010). Financial Numeracy, Net Worth, and Financial Management Skills: Client Characteristics That Differ Based on Financial Risk Tolerance. *Journal of financial service professionals*, *64*(6).

Saurabh, K., & Nandan, T. (2019). Role of financial knowledge, financial socialisation and financial risk attitude in financial satisfaction of Indian individuals. *International Journal of Indian Culture and Business Management*, *18*(1), 104-122.

Sherraden, M. S., & Ansong, D. (2016). Financial literacy to financial capability: Building financial stability and security. *International handbook of financial literacy*, 83-96.

Sherraden, M. S., & Ansong, D. (2016). Financial literacy to financial capability: Building financial stability and security. *International handbook of financial literacy*, 83-96.

Shim, S., Barber, B. L., Card, N. A., Xiao, J. J., & Serido, J. (2010). Financial socialization of first-year college students: The roles of parents, work, and education. *Journal of youth and adolescence*, *39*, 1457-1470.

Shim, S., Xiao, J. J., Barber, B. L., & Lyons, A. C. (2009). Pathways to life success: A conceptual model of financial well-being for young adults. *Journal of applied developmental psychology*, *30*(6), 708-723.

Singh, D., & Malik, G. (2022). A systematic and bibliometric review of the financial well-being: advancements in the current status and future research agenda. *International Journal of Bank Marketing*, *40*(7), 1575-1609.

Sobel, M. E. (1982). Asymptotic confidence intervals for indirect effects in structural equation models. *Sociological Methodology*, *13*, 290-312.

Sorgente, A., & Lanz, M. (2017). Emerging adults’ financial well-being: A scoping review. *Adolescent Research Review*, *2*, 255-292.

Sorgente, A., & Lanz, M. (2017). Emerging adults’ financial well-being: A scoping review. *Adolescent Research Review*, *2*, 255-292.

Tang, N., & Baker, A. (2016). Self-esteem, financial knowledge and financial behavior. *Journal of Economic Psychology*, *54*, 164-176.

Worthy, S. L., Jonkman, J., & Blinn-Pike, L. (2010). Sensation-seeking, risk-taking, and problematic financial behaviors of college students. *Journal of Family and Economic Issues*, *31*, 161-170.

Xiao, J. J. (2016). Consumer financial capability and wellbeing. *Handbook of consumer finance research*, 3-17.

Zaleskiewicz, T. (2001). Beyond risk seeking and risk aversion: Personality and the dual nature of economic risk taking. *European journal of Personality*, *15*(S1), S105-S122.

Zaleskiewicz, T. (2001). Beyond risk seeking and risk aversion: Personality and the dual nature of economic risk taking. *European journal of Personality*, *15*(S1), S105-S122.

Abu-Bader, S., & Jones, T. V. (2021). Statistical mediation analysis using the sobel test and hayes SPSS process macro. International Journal of Quantitative and Qualitative Research Methods.