# **Exploring the Relationship between Biopsychosocial Factors and Financial Risk Tolerance: A Comprehensive Evaluation**

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#### **Abstract:**

Financial risk tolerance is a crucial determinant of investment behavior, yet its underlying factors remain multifaceted and complex. This review paper investigates the interplay between biopsychosocial factors and financial risk tolerance, aiming to clarify the relationship shaping individuals' propensity for risk in financial decision-making.

Biological factors, encompassing genetic predispositions and neurological processes, influence risk perception and decision-making. Recent advancements in neuroscience have highlighted the role of brain structures such as the amygdala and prefrontal cortex in assessing risk, shedding light on how individual differences in neural functioning contribute to diverse risk-taking behaviors.

Psychological factors, including cognitive biases, personality traits, and emotional responses, play a pivotal role in shaping risk tolerance. Cognitive biases such as loss aversion and overconfidence influence risk perception, while personality traits like openness to experience and conscientiousness moderate risk-taking tendencies. Emotional responses, particularly fear and greed, exert significant influence over risk assessment and decision-making processes.

Social factors, ranging from cultural norms to socio-economic status, also impact financial risk tolerance. Cultural attitudes toward risk, familial influences, and peer pressure shape individuals' risk preferences and investment choices. Moreover, socio-economic factors such as income level and education contribute to disparities in risk tolerance, reflecting broader societal structures and inequalities.

Understanding the intricate interplay between these biopsychosocial factors give valuable insights into individual differences in financial risk tolerance. Such insights are important for financial advisors and policymakers in tailoring investment strategies and regulatory frameworks that align with diverse risk preferences and societal contexts. Moreover, recognizing the multifaceted nature of risk tolerance underscores the importance of interdisciplinary approaches integrating insights from neuroscience, psychology, and sociology to comprehensively address this complex phenomenon.

#### Introduction

In the world of finance, understanding and assessing an individual's financial risk tolerance (FRT) is important for making informed investment decisions. Financial risk tolerance refers to an investor's willingness to accept the negative changes in the value of their investments or outcomes that differ from their expectations. It plays a significant role in wealth accumulation, portfolio allocation, and other finance-related decisions. Accurately assessing FRT is essential for financial advisors and investors to align their goals and choose suitable investment options.

This article explores the relationship between biopsychosocial factors and financial risk tolerance. It delves into the multidimensional nature of FRT and investigates how various factors from different domains, such as psychology, economics, and bio-sociology, influence an individual's risk tolerance. By understanding these factors, financial advisors,

policymakers, and researchers can better identify the determinants of an individual's FRT and recommend appropriate investment alternatives.

#### The Multifaceted Nature of Financial Risk Tolerance

Financial risk tolerance is a complex concept influenced by a range of factors. It is not solely determined by financial circumstances but also by biopsychosocial elements. These factors can broadly be categorized into three main domains: biophysical, psychological, and social.

#### **Biophysical Factors**

Biophysical factors refer to the biological and physical characteristics of individuals that may impact their risk tolerance. These factors include genetic predispositions, hormonal influences, and physiological reactions to stress. Research suggests that certain biological traits, such as sensation seeking tendencies and tolerance for uncertainty, play a role in moulding an individual's risk tolerance.

#### **Psychological Factors**

Psychological factors encompass an individual's cognitive and emotional traits, personality characteristics, and cognitive prejudices that affect their risk tolerance. Traits of Personality like extraversion, openness to experience, and self-esteem have been found to correlate with risk tolerance. Moreover, cognitive biases, such as loss aversion and overconfidence, can affect how individuals perceive and respond to financial risks.

#### **Social Factors**

Social factors show the environmental and social influences on an individual's risk tolerance. These factors comprise cultural norms, social support systems, and socioeconomic status. For instance, individuals from socialist cultures may have different risk tolerance levels compared to those from individualistic cultures. Socioeconomic factors like income, education, and wealth accumulation also play a role in determining an individual's risk tolerance.

#### The Role of Self-Esteem in Financial Risk Tolerance

Self-esteem, a psychological factor, has been proved to be positively related to financial risk tolerance. Individuals with higher self-esteem tend to show higher risk tolerance levels. This relationship can be credited to several underlying mechanisms.

Firstly, individuals with higher self-esteem may have a greater sense of self-worth and confidence in their decision-making abilities. This self-assuredness allows them to tolerate the potential undesirable outcomes associated with financial risks. They are more likely to view setbacks as temporary and believe in their ability to recover from losses.

Secondly, individuals with higher self-esteem may have a more optimistic outlook on life, which can translate into a greater willingness to take financial risks. They may perceive risks as opportunities for growth and view potential losses as temporary hindrances rather than permanent failures.

Thirdly, individuals with higher self-esteem may have a stronger belief in their ability to control outcomes. This sense of control can mitigate the apparent risks associated with financial decisions, making them more comfortable with taking calculated risks.

#### The Influence of Personality on Financial Risk Tolerance

Personality traits have been recognized as significant elements of financial risk tolerance. Several personality traits have been studied in relation to risk tolerance, including extraversion, openness to experience, and conscientiousness.

#### **Extraversion and Financial Risk Tolerance**

Extraversion, characterized by sociability, assertiveness, and excitement-seeking, has been found to have a positive association with risk tolerance. Extraverted individuals tend to be more outgoing, energetic, and adventurous, making them more inclined to take financial risks. They thrive on excitement and novelty, which can translate into a higher tolerance for financial uncertainties.

#### Openness to Experience and Financial Risk Tolerance

Openness to experience, reflecting a preference for novelty, curiosity, and intellectual pursuits, has also been linked to higher risk tolerance. Individuals high in openness to experience are more likely to search for new investment opportunities and embrace unconventional investment strategies. Their willingness to explore uncharted territories extends to their financial decision-making, enabling them to tolerate higher levels of risk.

#### **Conscientiousness and Financial Risk Tolerance**

Conscientiousness, characterized by self-discipline, responsibility, and organization, has been related with lower risk tolerance. Conscientious individuals are typically cautious, detail-oriented, and risk-averse. They prefer stability and security, making them less inclined to take significant financial risks. However, it is important to note that the relationship between conscientiousness and risk tolerance may vary depending on the context and the individual's financial goals.

#### The Influence of Sensation Seeking on Financial Risk Tolerance

Sensation seeking, a personality trait related to the pursuit of novel, exciting, and thrilling experiences, has been found to have a positive connection with financial risk tolerance. Individuals high in sensation seeking tend to be more adventurous, impulsive, and open to taking risks.

Sensation seekers are motivated by the excitement and stimulation that can come from financial risks. They may enjoy the adrenaline rush associated with high-risk investments and see them as opportunities for potential gains. However, it is crucial to strike a balance between risk-taking and risk management to avoid excessive exposure to financial risks.

#### Understanding the Relationship Between Biopsychosocial Factors and Financial Risk Tolerance

While examining the relationship between biopsychosocial factors and financial risk tolerance, it is important to consider the interplay between these factors. Biopsychosocial factors do not act independently but interact and influence each other, shaping an individual's risk tolerance.

For example, an individual's hereditary predispositions may interact with their psychological traits and social environment to influence their risk tolerance. Similarly, an individual's social support system and cultural background may moderate the relationship between their personality traits and risk tolerance.

By understanding these complex relationships, financial advisors, policymakers, and researchers can develop more complete frameworks for assessing and predicting an individual's financial risk tolerance. This knowledge can help them tailor investment advice, design impactful risk management strategies, and identify suitable investment alternatives for their clients.



### SUMMARY OF LITERATURE REVIEWS ON FINDINGS ABOUT FACTORS INFLUENCING FINANCIAL RISK TOLERANCE

Findings from this study indicating the factors of FRT are represented in Table below.

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<u>Authors</u>	<u>Year</u>	Variables of study	Major Findings of the study
	<u>of</u>		
	<u>public</u>		
	<u>ation</u>		
Sherman	1998	Time horizon	An important aspect of objective risk
Hanna and			tolerance is the proportion of the investor's
Peng Chen			financial assets and total assets (including
			human assets) over the investment horizon.
			Even investors with very low subjective risk
			tolerance should
			have an aggressive portfolio if they have an
			investment horizon of 20 years or more. (Hanna
			& Chen, 1998)
John	2003	Gender, Age, Marital	The study result indicated that 13 item
Grable,		Status, Income,	istrument was accurately corelated with actual
Ruth H.		Educational	investment behaviour.
Lytton		Background,	
Lytton		Occupation Occupation	
Carmen	2006	in stocks; Financial risk	The results demonstrate that the measurement
Keller,	2000	attitude; Ethical stance	models
Michael		toward the stock	of the latent variables across groups were
			<b>.</b>
Siegrist		market; Money	partially invariant. In all four groups, financial
		attitudes;	risk attitude
		Gender	was a significant positive predictor, and
			viewing the stock market as unethical a
			noteworthy negative
			predictor, of willingness to invest in stocks
			(Keller & Siegrist, 2006)
Ryan	2007	Income, Knowledge,	The study has given a positive relationship
Gibson,		Expectation	between risk tolerance and income, investment
David			knowledge and positive stock market
Michayluk			expectations. Risk tolerance is found to be
& Gerhard			lower level for females, older individuals, those
Van de			that currently use a financial advisor and
Venter			individuals that suggest the stock market to be
			riskier than two years before
John E.	2008	risk profile, risk-taking,	It was found that the tolerance towards
Grable,		risk tolerance	financial risk has a positive effect on the
Sonya L.			perception of risk as a contributing factor.
Britt, and			Individuals with increased risk tolerance, as
Farrell J.			measured by valid and reliable scales, were
Webb			more likely to involve in risky behaviors.
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Yrd. Doç. Dr. Adem ANBAR	2010	inancial risk, risk aversion, financial risk tolerance, demographic characterictics	analysis of the association between participant demographics and financial risk tolerance reveals that gender, income and wealth are significantly related with financial risk tolerance. (Eker & Anbar, 2010)
Rui Yao & Angela L. Cur	2011	Market Return, Stock Prices	Studies have revealed that risk tolerance generally increases as market returns increase and risk tolerance decreases as market returns decrease.  People who thus change their risk tolerance invest in stocks when stock prices are going up and sell when stock prices are going down.  Researchers, employers, financial educators and practitioners need to help investors overcome the bias of viewing the latest news related to market performance.  (Yao & Curl, 2011)
H. Kent Baker, Michael B. Hargrove and John A. Haslem	2012	Risk, Rate of return, Dividend Income, Capital Appreciation,	The relationship between risk and annual expected rate of return appears to be positive.
Dr. Ebrahim Kunju Sulaiman	2012	Demographic Factors,	Analyzing different demographic factors related to financial risk tolerance of individual investors, we can see that financial risk tolerance can be distinguished by demographic characteristics of individual investors.
John E. Grable1 & So-Hyun Joo	2013	Dependent variable, financial risk tolerance, is measured using five Likert-type items. Independent variables: age, education, gender, marital status, ethnic/racial background, birth order, homeownership, and occupation.	The results of this study support Irwin's suggestion that further research should consider both environmental and biopsychosocial factors when attempting to explain attitudes toward financial risk tolerance.
Dr. Vijay Gondaliya* and Mr. Govind Dhinaiya	2014	age, education and occupation	These results reveal that investors with higher risk tolerance have higher levels of returns to competence, agreeableness, and comfort, and vice versa.  Also notice that age, education, and occupation have no relationship between risk-taking, agreeableness, and comfort.



Sonali Patil,	2014	Investments, profit,	The data analysis reveals that the safety is
Dr.Kalpana Nandawar		salaried employees, savings	important factor while doing investment so remaining avenues are less considerable while doing investment by investors.
Stephen Kuzniak, Abed Rabbani, Wookjae Heo, Jorge Ruiz- Menjivar, John E. Grable	2015	Type of Investment	Consistent with the literature, high scale scores (representing a greater willingness to take risks) were found to be related with equity ownership and negatively related to cash and bond holdings (Kuzniak et al., 2015)
Rahmawati , M. Dileep Kumar , Meyland Kambuaya , Farhan Jamil, Saqib Muneer	2015	Gender, Age group, Education	The authors conclude that men are less risk averse than women, that well-educated investors are risk takers, that wealthy investors tolerate risk better than wealthy investors and, interestingly, that there is no strong correlation between age. and the level of investment.  Risk tolerance for every age group varies widely, but each individual's risk tolerance is different.  Education and wealth are closely related to risk-taking.
Selamah Abdullah Yusof	2015	Income Pooling Hypothesis; Bargaining Model; Financial Decision- Making; Risk Tolerance; Household	The analysis shows that male respondents have greater levels of risk tolerance than female respondents. Similar to financial investment decision making, age is a significant factor in the level of risk tolerance for men, but not for women. However, earning share does not significantly affect risk tolerance level of married men or women. On the other hand, education and income are important determinants for those who were married and for women, respectively, where higher levels of education and income imply more tolerance to risk
M. Kannadhas an	2015	gender, age, marital status, occupation, education, and income, financial risk tolerance	result confirms that demographic factors do play a role in distinguishing retail investors and they motivate practitioners to continue to use them in the future as well (Kannadhasan, 2015)
Carina Gustafsson Lisa Omark	2015	financial risk tolerance, financial literacy, risk- aversion	even though financial literacy showed to have an increasing impact on financial risk tolerance, the results suggest that the average individual is risk-averse



	2016	T	
Michael S. Finke & Michael A. Guillemette	2016		we examine ways to measure investor risk preferences and provide insight into the construction of risk assessment questionnaires. We conclude with a discussion on advisor compensation models and how they may affect the risk level of client portfolios.
M Kannadhas an, S Aramvalart han, S K Mitra, and Vinay Goyal	2016	Dependent Variable: FRT & Independent Variable:sensation seeking, personality type (A/B), and self-esteem.	All the three factors—self-esteem, personality type, and sensation seeking— are positively related to FRT. This study adds to the extant literature on psychological determinants of FRT. (Kannadhasan et al., 2016)
Ms. R. Suyam Praba	2016	age, gender, annual Individual Income, marital status, life cycle stage and family type	From the analysis, it was found that the six socio-demographic factors included in the study, such as age, gender and income, have a significant relationship with individual investors' susceptibility to financial risk. (Praba, 2016)
Linh T.M. Nguyen Gerry Gallery Cameron Newton	2016	client financial literacy, trust in the financial advice service, and relationship length with the service	the two relationship characteristics: trust and relationship span were found to be positively linked with financial literacy.
Mustabsar Awais, M. Fahad Laber	2016	Risk Tolerance, Investment Decision Making, Investment Experience, Financial Literacy	ř
Ali Bayrakdar oglu	2016	Demographic Factors, Personality Traits, Bias	to the research findings, it was determined that there was an association between traits of personality and psychological biases of investors and the traits of personality of investors affected their financial risk tolerances
Manit Mishra Sasmita Mishra	2016	Age, Gender, Marital Status, Occupation, Family income, Materialism	A greater understanding of the financial risk tolerance construct and the variables shaping it would enable superior personal financial management by practitioners, researchers, and investors



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SJIF Rating: 8.586

Ms Bhoomi 2017 risk, return, market Studies have shown that demographic factors Patel. Dr trends, past have considerable impact VasudevMo performance. on some elements of investment decisions and a minor impact on di Demographic factors others. The survey also provides an like age, gender and overview of investors' perceptions of income is having impact different investment options. Investment decis on investment decision ions are influenced by a variety of factors, making. including risk, return, market trends and past performance. Abed G. 2017 **Decision** making, Results from this study indicate that although Rabbani, Gender, Age, Marital John Ε. Status, Education, scores are likely to vary based on market Grable, Household Income, volatility, the Wookjae actual magnitude of such changes will generally be quite modest (Rabbani et al., 2017) Heo,Liana Nobre, and Stephen Kuzniake Malgit 2017 Financial Literacy, The study shows that individuals Amos Investment Decisions, organizations should invest in building Akims, Decision theory, financial literacy higher financial as **Prospect Theory and Ambrose** literacy is positively related to successful investment decisions Theory Jagongo **Mental Accounting** Basil John 2018 Financial The determinants of financial risk tolerance **Thomas** Responsibility, Annual including socioeconomic, demographic and Earnings, Age, Gender, attitudinal factors received partial support in Level of Education Elsa 2018 Nationality, Gender The findings can be used for, example given, Huhtala the customization of investment portfolios for individuals from different countries. Additionally, the fact that there are significant differences between females and males can be used to further customize investment advice for each gender. 2018 Return expectations, of both investors and **Swaminath** Advisers' Perception of an Clients' advisers, are the single best predictor of their Sivarajan Investment Experience, respective risk-taking decisions. In addition, Return Expectations, demographic variables played a significant **Investment Literacy** role. For investors, these variables include gender, net worth and marital status. For advisers, these variables include education and licensing type 2019 Heena gender, marital status, An analysis of data indicates that personality Thanki, occupation, and income type and demographic variables such as

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gender, marital status, occupation, and income

are found significant in determining FRT of



			investor, while age and education are found insignificant. (Thanki & Baser, 2019)
Mr. Binit Patel, Dr. Govind Dave	2019	Personality, Sensation Seeking, Self-esteem	study suggest that biopsychosocial factors are related to FRT. However, use of demographic variables and contextual variables along with bio-psychosocial variables is suggested. It is because a small variation in any factor would be useful in preventing the wrong asset allocation decisions. (Patel, 2019)
Nadya Septi Nur Ainia, Lutfi Lutfi	2019	risk perception, risk tolerance, overconfidence, and loss aversion	risk perception has a significant and negative effect on investment decision making
Kanchan Kathial	2019	Financial Literacy, Investment Decisions	Investment planning and financial literacy were found to be positively correlated to each other and financially literacy helps in doing better investment planning by women.
Jaimie Sung Sherman Hanna	2019	gender/marital status, ethnic group and education	Predicted risk tolerance increased with education, even after controlling for the effects of other variables Risk tolerance was lower for femaleheaded households.
Md Mahfuzur Rahman	2019	Financial risk tolerance, Behavioural factors, Propensity to indebtedness	The analysis revealed several new facts.  As a result, tendency to regret, tendency to believe, happiness in life, tendency to attribute success to luck, and tendency to overtrust were found to have a crucial effect on FRT, while social interaction tendency did not. The results also prove the moderating effect of religiosity in the proposed research model.
Farah Margareth a Leon Angie	2019	self-esteem, personality, and sensation seeking	the Self-esteem, personality, and sensation Seeking positive effect on financial risk tolerance
Suné Ferreira & Zandri Dickason- Koekemoer	2020	age, gender, Health and Safety	Risk can have different effects on investors, positive, neutral and negative. Therefore, the amount of risk investors are willing to tolerate can be displayed in their attitude. This attitude can be influenced by demographic factors, life satisfaction and risk-taking behaviour and perception. (Ferreira & Dickason-Koekemoer, 2020)



Reema	2020	demographic factors,	While investors select alternatives based on
Sharma	2020	age, income, gender,	various factors like income, age, gender,
Similin		qualification which	occupation, means of production,
		affect the financial	etc., financial knowledge and risk tolerance
		decision	play an important role
		decision	in making investment decisions, which can
			be studied through the given model.
Sahil Goyal	2020	Risk Perception,	The paper successfully investigates the factors
Salin Goyai Saloni Jain	2020	Investment Decision,	and the behavioral biases that impact the stock
Saloin Jain		Demographic Factors	market behavior of the small investors with
		Demographic ractors	special reference to Covid-19 stressed situation
			special reference to Covid-17 stressed situation
Sanjeet	2020	Age, Occupation,	There is an important relationship
Kumar,		Qualification, Marital	between women's demographic factors and
Prashant		Status, Monthly	risk-taking capacity, as well as marital status.
Kuma		Income	U 1 0
Mubarokah	2021	Financial Capability,	This study shows that financial risk tolerance
Bunyamin,			can be explained by demographic profile,
Norwazli			psychological, social,
Abdul			geographical differences and
Wahab			financial capacity factors.
Cecilia	2021	Financial, Literacy,	The analyses show that both financial literacy
Hermansso		Financial Interest, Age,	and financial interest are associated with
n, Sara		Gender, Work Status	higher risk tolerance and we conclude that
Jonsson			financial interest has a significantly higher
			impact on risk tolerance than financial literacy.
			We also conclude that specifically financial
			interest offers an additional explanation of
			financial-risk tolerance. (Hermansson &
			Jonsson, 2021)
Hiteshkum	2021	Age,Gender,	The research shows that 22.4% of respondents
ar Patel, Dr.		Education, Income,	are very low risk taker and 39.2% respondents
Vinodrai		Experience,	are low risk taker.
Balubhai		Knowledge, Confidence	18.4% of respondents are very highrisk taker
Patel, Dr.		8 7	and 20% of respondents are high risk taker.
Jaydip			1
Chaudhari			
Nasim	2021	Earning, Literacy,	literacy has a positive and significant effect on
Mohamma		Saving, Investment,	financial risk tolerance. it appears that having
di, Afsaneh		Financial Risk	literacy-related skills will enable people to
Soroushyar			make informed decisions about their financial
· · · · · · · · · · · · · · · · · · ·			capital and will minimize the likelihood of any
			financial mismanagement and also the
			associated negative consequences, and it can
			also be effective in predicting their future
			behaviours. (Mohammadi & Soroushyar, 2021)
	<u> </u>		2 50104011jui, 2021)



Contian	2021	Condon Ago Dogion	The findings point to four main issues:
Gentjan Coro	2021	Gender, Age, Region, Income	financial behaviour as a function of financial
Çera, Khurram		Income	attitude, knowledge and inclusion; the
Ajaz Khan,			influence of financial literacy (its components)
Ajaz Khan, Zuzana			
Rowland,			advice; the effect of financial inclusion on
Humberto			financial advice; the role of culture in the
Nuno Rito			relationship between risk tolerance and
Ribeiro	2022	100	financial advice (Çera et al., 2021)
Heena	2022	personality types	in the case of male investors, personality type,
Thanki ,		(Type-A and Type-B),	FL, income, occupation, marital status, and the
Sweety		financial literacy, and	number of dependents significantly influenced
Shah ,		six demographic	FRT. Conversely, in the case of female
Vrajlal		parameters, including	investors, personality type, FL, income, and
Sapovadia,		marital status, age,	marital status were found to have significant
Ankit D.		education, income,	influence. Data analysis also pointed to the
Oza and		occupation, and the	conclusion that age and education have no
Dumitru		number of dependents,	effect on FRT on
Doru		as independent	either gender. (Thanki et al., 2022)
<b>Burduhos-</b>		variables, and gender	
Nergis		as a dividing variable	
Werner Ria	2023	Financial Literacy,	financial literacy, age, and income do not affect
Murhadi,		Financial Interest	the financial risk tolerance of individual
Fidelia			investors in Indonesia. In contrast, financial
Rahayu			interest has a significant positive effect on the
Kencanasar			financial risk tolerance of individual investors
, Bertha			in Indonesia. (Murhadi et al., 2023)
Silvia			
Sutedjo			
Arya	2023	Self Esteem, Financial	self-esteem has a positive effect on financial
Samudra		Literacy, Investment	risk tolerance, financial risk tolerance has a
Mahardhik		Decision	positive effect on investment decisions,
a, Yanuar			financial literacy affects financial risk
É.			tolerance because financial literacy only relates
Restianto			to knowledge and understanding of financial
			topics (Mahardhika & Restianto, n.d.)
Nurullaili	2023	Financial Literacy,	The study's results explain that members of the
Mauliddah,		Risk Tolerance,	Muhammadiyah organization in East Java
Muhamma		Financial Attitude,	have a good level of risk tolerance supported by
d Alhakim		Financial Behaviour,	knowledge of sound financial concepts based
<b>Danurwind</b>		Income	on measuring instruments in this research
o, Bahrul			variable (Mauliddah et al., n.d.)
Ulum,			The same (Traditional of all, 11.4.)
Octavia Ika			
Wibowo,			
Galuh			
Nichayah			
Nichayan Pravitasari			
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income, Gender, Age,

Gender, Occupation, Liquidity	Age, Return,	in the city of Vadodara female investors are less than male investors. Lack of knowledge about stock market, not interested in stock market are important reasons for the lesser female investors. (Assistant Professor International Institute Of Management Science Pune-411033, Maharashtra, India et al., 2014)
Investor's	attitude;	This research focused on the attitude of
stock	market;	investors toward stock market risk from three
Chittagong	Stock	broad
Exchange; risl	K	perspectives like awareness, perceived risk
		attitude and behavior pattern
Work Sector,	Monthly	Due to their socio-cultural differences,

psychological traits and their effect on FWB in emerging countries may differ from developed

countries (Mathew et al., 2024)

#### **Conclusion**

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Mathew,

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and Sanjeev

Financial risk tolerance is a multifaceted concept influenced by a combination of biophysical, psychological, and social factors. Understanding the association between these factors is crucial for accurately assessing an individual's risk tolerance and making informed investment decisions.

Biophysical factors, such as genetic predispositions and physiological reactions to stress, interact with psychological factors, including personality traits and cognitive biases, to shape an individual's risk tolerance. Social factors, such as cultural norms and socioeconomic status, further influence an individual's risk tolerance.

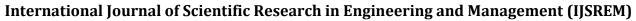
Factors like self-esteem, extraversion, openness to experience, and sensation seeking have been proved to be related to financial risk tolerance. However, it is important to recognize that these relationships are not deterministic and may vary depending on individual circumstances and contexts.

By gaining a deeper knowledge of the relationship between biopsychosocial factors and financial risk tolerance, financial advisors and policymakers can provide more tailored advice and support to investors. This knowledge can contribute to more effective risk management strategies and the achievement of financial goals.

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IJSREM Ledeurad

Volume: 09 Issue: 06 | June - 2025

SJIF Rating: 8.586

ISSN: 2582-3930

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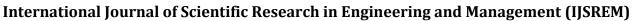
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IJSREM Le Jeurnal III

Volume: 09 Issue: 06 | June - 2025

SJIF Rating: 8.586

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