# What Doesn't Break You Makes You Wiser: An Experimental Validation of Personal Wisdom Development Through Regret Handling and **Personality Dispositions**

## **Ankita Sharma Indian Institute of Technology Jodhpur**

# **Abhishek Sharma** Sardar Patel University of Police Security and Criminal Justice

Personal growth occurs with life experiences and, most importantly, reflecting on negative life experiences. This article argues that personal wisdom development involves pain and suffering yet feels more satisfying in retrospect. The present study attempts to explore, 1) if people with different personality dispositions differ in the choices and handling regret in the face of failure 2) if people with higher action orientation chose a risky option and how they handle it, and finally 3) does personality disposition predict regret handling. The results suggested that openness and action orientation significantly influence choice-making. Individuals high on openness and action orientation explore more alternatives, choose risky options, and report less regret if faced with failure. The mediator analysis suggested that individuals with initiative tendencies and openness regret less than their counterparts. However, individuals with high initiatives and openness to experience regret more than people with only one of them.

Keywords: personal wisdom development, openness, action-orientation, decision-making task, failure and regret

### INTRODUCTION

Most wisdom researchers recommend the importance of life experience in the development of wisdom. Weststrate and Gluck (2017), Webster (2013) discussed the importance of appropriate reflective processes on the already occurred life event in wisdom development. However, this paper contends that the way a person approaches life (approach toward life: openness and action orientation) leads to more pain/frustration/regret in general, yet, in retrospect, this feels more satisfying. This may be a common narrative in the development of wisdom through negative life experiences.

### Wisdom as the Development of Self and Ego

Webster (2007) defines wisdom as "the competence in, intention to, and application of critical life experiences to facilitate the optimal development of self and others." Optimal development of self may follow two dimensions of positive personality development across the life span, 1) personality development toward adjustment and 2) personality development toward growth (Staudinger & Kunzmann, 2005).

Staudinger and Kunzmann (2005) proposed that personality development toward adjustment comes as a result of coping with the normative developmental tasks, and it increases affect balance, conscientiousness, agreeableness, and emotional stability (Digman, 1997). Another dimension, i.e., personality development toward growth, involves life experiences that go beyond social requirements, expectations, and structures. Personality growth involves an increase in openness to experience and the psychological wellbeing dimensions autonomy, personal growth, and purpose in life (Wink & Staudinger, 2015).

Now, this personality growth resounds with the conceptualization of wisdom as defined by the majority of researchers. In personality psychology, it is, for instance, Maslow's self-actualizing individual or Allport's criteria of a wise person that are often cited as references for the definition of personality growth. They suggested that criteria for a wise person included, e.g., the extension of the sense of self, capacity for intimacy, emotional security, realistic perception, self-objectification (insight and humor), unifying philosophy of life and religion. Rogers defined personal maturity as a fully functioning person who is open to experience, able to live existentially, trusts in his/her organism, expresses feelings freely, acts independently, is creative, and lives a prosperous life.

### **Wisdom Development From Adverse Life Experiences**

Approximately 15 years ago, Staudinger and Kunzmann (2005) argued that wisdom (especially personal wisdom) does not necessarily come with happiness and may result from overcoming adverse challenging life events. Similar ideas are supported by Mickler and Staudinger (2008), Staudinger and Gluck (2011), and Westsrate and Gluck (2017). Webster (2013) discussed the role of critical life experiences in addition to reminiscing and reflecting on those life experiences in the development of wisdom (see figure 1).

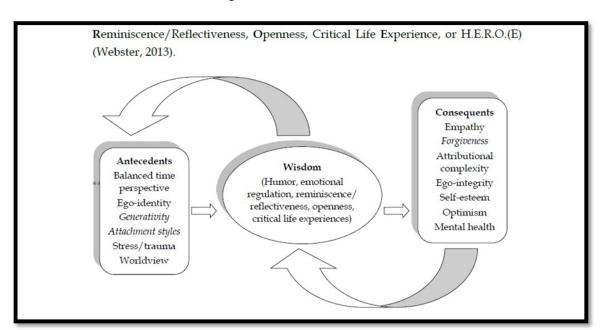


FIGURE 1
ANTECEDENT AND CONSEQUENT VARIABLES OF WISDOM DEVELOPMENT

Mckee and Barber (1999) said that wisdom is hard-won from engagement with life and therefore gained through experience. In a similar line, Westsrate and Gluck (2017) concluded that wisdom fostering forms of self-reflection requires that individuals explore their role in the occurrence of adverse life events, confront and examine negative feelings, and do the effortful work of finding meaning in difficult life experiences.

However, the point is that one aspect of life experience is how a person processes it after the event has occurred. However, the other aspect is that how an individual approaches any particular life event. The pre-experience inclination can be an essential aspect as an antecedent to wisdom development.

### **Wisdom and Approach Toward Life Events**

The humanistic approach of personality growth includes the openness to experience as an essential antecedent for personality growth-related development and, in turn, wisdom. With the experiences, the personality traits of openness, conscientiousness increase and lead to wisdom development.

Openness to experience has been implicated in most of the conceptualization of wisdom which is generally defined as receptivity to new experiences and ideas. A related idea (which is taken as part of openness itself in Big Five Theory) is action orientation. Action orientation is defined as an individual's tendency for the self-motivated initiation and maintenance of intention related to flexible responses to a demanding situation. Now putting this in the context of an individual's approach toward any event marks a very different trajectory one may have.

The Personality System Interaction (PSI) theory by Kuhl (2000) suggests that individuals are prone toward either an action or state orientation, and this is a stable personality characteristic for all persons. Action-oriented people tend to approach an event and involve more cognitive resources and thus have a higher chance of achieving goals. Nevertheless, they can also handle their emotions more effectively in the face of an adverse event and overcome the regret and involve with the next event with the same/more effort. On the contrary, people with the state orientation focus more on the negative aspect of event/possible outcome and thus prefer not to do anything about it. However, they still feel more regret in comparison to people with action tendency in the face of a negative outcome (McElroy & Dowd, 2007; Grass et al., 2018). The concept of action orientation is not explored concerning wisdom but appears closely linked as per the conceptualization.

### **Emotional Reaction-Handling, Action Orientation, and Wisdom**

Wisdom is not only a cognitive process; it generally includes affective regulation, a synthesis of cognitive and affective capacity. The affective component mostly describes the ability to handle oneself and others' emotions, using emotions effectively. This again connects with action orientation. According to Kuhl (1981, 1994b, 2000), action orientation is the capacity to regulate the emotions, thoughts, and behaviors to fulfill their intentions, whereas state orientation refers to the inability to do so.

De Lange and Van Knippenberg (2009) also supported that the action orientation enables individuals to shift their emotional state optimally as a means to fulfill their goals. The disengagement versus preoccupation dimension of this orientation can strongly correlate to the handling and curbing negative affect. According to Moss (2016), individuals with disengagement action orientation show two qualities that help them curb adverse effects. First, these people can more easily access and activate their personal values, priorities, inclinations, and perceptions of themselves. Secondly, they associate this sense of self with the feeling of agency. The hesitation versus initiative dimension can create a mechanism to foster positive emotions. The hesitant state-oriented individuals form a deficient intention (Kuhl, 1994a; Kuhl & Goschke, 1994; Kuhl & Helle, 1994); and the antecedent to this deficient intention could be due to their felt obligation to enact behaviors that do not necessarily align with their preferences (Stiensmeier-Pelster & Schurmann, 1994). Kazen, Kaschel, and Kuhl (2008) reported that hesitation state orientation corresponds to the inability to foster the positive affect that is needed to initiate intentions.

A connected concept of inaction inertia is the inclination of individuals to reject a reasonable offer if they recently missed a better opportunity. This effect was proved in the study by Van Putten, Zeelenberg and Van Dijk (2009). However, they also reported that this effect diminishes with the action-orientation of an individual. Zeelenberg and colleagues (2006) explained 'action effect' as an action that leads to failure will cause more regret than inaction that leads to similar failure. In recent work, Sharma and Sharma (2021) found that the (in)action state and negative emotion can lead to procrastination, and an effortful selfregulated coping mechanism is needed to overcome the inner resistance.

Therefore, the approach toward an event may get determined by an individual's openness and action orientation; again, the reaction to the event's outcome is influenced by these tendencies. The possibility is that the individual with openness and action orientation may become inclined toward experiencing more even when they face negative consequences. This does not mean that experienced pain/frustration will not be there. However, these individuals will be better at handling them and moving ahead. This may lead to unhappiness in the short term but an increase in satisfaction in retrospect and wisdom development in the long run.

### Wisdom as Affect Handling and SWB: Experience and Remembering Self

In context to the relation of wisdom and personality, Staudinger, Dorner, and Mickler (2005) commented that, on the one hand, research provides evidence for a positive association of ego levels with highly adaptive personality characteristics and mental health. Similarly, on the other hand, the ego level is also positively related to lifetime psychiatric visits and regular psychotherapy sessions. The literature on the relationship between wisdom and wellbeing also suggests that general wisdom shows a small but significant relationship, whereas personal wisdom does not relate to SWB (Mickler & Staudinger, 2004). Mickler and Staudinger (2008) define personal wisdom as the realization of one's own potential while considering others' wellbeing and society. This contradictory finding may be explained by the point that while being better able to provide advice to others may be associated with better SWB, higher levels of self-related insight and wisdom seem to come at a cost in SWB.

The conflicting results about the relationship between wisdom and wellbeing can be understood in terms of personality adjustment and personality growth vis-à-vis subjective wellbeing and psychological wellbeing. Also, the answer could be in the distinction between experiencing self and remembering self. Kahneman (2013) explains that at the moment, affect experience (happiness) and life satisfaction (the usual indicator of SWB) is different because life satisfaction is always in retrospect. So, an experience that is painful at the moment (experiencing self) may seem very satisfying in retrospect (remembering self). Therefore, leading to happiness-satisfaction distinction, and thus, a current painful experience may be evaluated as satisfying, insight enhancing (wisdom development) in retrospect.

### RATIONALE AND ASSUMPTION

There are several different definitions of wisdom; however, the definitions are given by Jeste et al. (2010), Baltes and Staudinger (2000), and Yang (2008) are personally more convincing for the present work. Thus, the operational definition for this work is conceptualized by combining their definition as,

"Wisdom is a form of advanced development and integration of cognition, emotion, and self, driven by life experiences and results in ways and means of understanding, planning and managing good life for self and others."

Following this definition in previous works by Sharma and Dewangan (2017 & 2018), they have understood that people relate specific values and characteristics with wisdom, and openness to experience does closely relate to the development of wisdom. The researcher agrees with the values of insights learned from life experiences, especially by negative ones (Westrate & Gluck, 2017). However, here I argue that individual also has a role in (a) putting themselves in the situation to have more experiences, (b) taking active role/reaction to the situation, and (c) handle the situation in such a way that promotes further engagement with other experiences.

### **OBJECTIVE**

Therefore, the present work 'examines the effect of personality disposition (emotional regulation, reflectiveness, openness to experiences, and action orientation) in decision making and affect handling in

negative experience (regret handling). The objective is based on the assumption that this provides insight into the process through which personal wisdom may develop.

Precisely,

- 1. If people with different personality disposition differ in the choices, exploring the alternatives and handling regret in the face of failure;
- 2. If people with higher action orientation chose a risky option and if this choice results into failure, how do they handle it and finally,
- 3. Does personality disposition predict regret handling?

### **HYPOTHESIS**

In view of the literature and the interpretation presented above, the working hypothesis for this work is:

**H1.** Individuals with openness and action inclination will approach choice selection and risky behavior positively.

**H2.** The higher the personality disposition (emotional regulation, reflectiveness, openness to experiences, and action orientation) better the regret handling will be.

### **METHODOLOGY**

The present work follows a mixed-method approach using questionnaires, a share market task, and an analog scale for measurement of wisdom, action orientation, and decision-making task with a record of experienced regret. All the material for meeting the transparency criteria is posted on the repository (https://figshare.com/account/home#/projects/111863). The information is available and can be used as per the copyright norms.

### Sample

The participants in this work were students and working professionals with a minimum education level of graduation. After removal of incomplete data and outliers the final total sample size is 77 (mean age = 27.05), Male = 45 and Female = 32.

### **Tools**

- Self-assessment wisdom scale (SAWS) developed by Webster, J.D. The questionnaire conceptualizes five factors in wisdom as Experience, Emotional regulation, Reflection, Humor, and Openness. The reliability (alpha value) for the current sample is 0.78.
- Action orientation scale developed by McElroy and Dowd. The scale measures the action orientation on three dimensions: Preoccupation vs. Disengagement, Hesitation vs. Initiative, and Volatility vs. Persistency. A higher score on the scale denotes action orientation. The reliability (alpha value) for the current sample is 0.95
- Share market task by McElroy and Keith Dowd (2007) was used, followed by a reflective interview for the thought during the task. The share market task is one of the famous decision-making tasks in the studies where the assessment of individual choices and thinking process is of interest. In this task, participants had to choose between two company stock options that would make the most profit. These options differ on their level of risk. Participants read that if they keep stock in Company X, they will make an, e.g., profit of 2,000 (safe option). Alternatively, if they choose to switch to stock in Company Z, they would have a one-third probability of making an, e.g., 6,000 profit and a two-thirds probability of making no profit (risky option). After participants made their choice, feedback is given. For all participants, this feedback indicated that they would have been better off choosing the option that they did not select. The second round of the same decision to

choose between two company stock options is conducted. Here the participant can choose to stay with the previous choice or change the choice to another stock. Here again, no matter what the decision was, negative feedback was given. After every round of tasks, a visual analog of regret on a 100-point scale was taken.

### **Procedure**

The participation was invited through flyers and email invitations to the campus of a reputed academic institution in India. Some 126-participant showed a willingness to participate in the study. These participants gave responses on the SAWS and Action Orientation scale, followed by the share market task. Share market task was designed and administered through E-prime software. A total of 98 participants' responses were complete and was then included in the analysis. After the data cleaning, the final data set includes responses from 77 participants. SAWS and ACS are openly available, and the share market task is explained enough for other researchers to replicate. The task is explained in more detail in McElroy and Keith Dowd (2007).

### RESULT AND DISCUSSION

This article explores the empirical evidence for the argument that an individual's personality disposition may make them inclined toward approaching life experiences, handling negative consequences better, and hence, they continue to maintain this inclination. Also, this whole approach will lead to increased negative emotional experience at the moment but will lead to wisdom development in the long term. Thus, to get the empirical evidence for these assertions, three specific questions were asked: 1) If people with different personality disposition differ in the choices, exploring the alternatives and handling regret in the face of failure; 2) If people with higher action orientation chose a risky option and if this choice results into failure how do they handle and finally, 3) Does personality disposition predict regret handling.

In the analysis for questions one and two, the mean differences were analyzed. A statistical sensitivity power analysis was also performed with G power for each mean difference and correlation analysis, with an alpha = .05 and power = 0.95 for between-group comparison. The effect size (ES) for table one analysis was 0.93, considered to be large; table two was 0.80 considered to be large; table three was 0.81 again large; for table five was 0.76 (large), using Cohen's (1988) criteria. Therefore, the mean difference analysis showed a large effect size with a power of 0.95.

Variable-wise, no significant results were found for the emotional regulation, reflection, and humor dimension of wisdom and volatility vs. the persistence dimension of action orientation. However, the significant result for openness (wisdom), preoccupation vs. disengagement, hesitation vs. initiative (action orientation), choices, and regret (decision-making task), provides useful insight and evidence for the assertion of this paper, especially as the differences had a large effect size. Though the sample size is relatively small, the power analysis suggests a large effect size indicating that this result can be taken as proof of concept and further developed.

TABLE 1 MEAN SCORE DIFFERENCES OF PREDISPOSITIONS FOR SAFE (N=61) VERSUS RISK (N=16) OPTION TAKEN BY THE PARTICIPANTS (N=77) IN THE FIRST TRIAL OF SHARE MARKET TASK

	Safe Option	on (n=61)	Risk Option	on (n=16)			
Personality Dispositions	Mean	SD	Mean	SD	t	p-value	d
Preoccupation vs Disengagement	5.05	2.99	7.27	2.67	-2.68	0.009	0.78
Hesitation vs Initiative	6.43	2.61	6.89	3.34	-0.58	0.566	0.18
SAWS_Openness	28.85	7.87	34.38	5.32	-2.67	0.010	0.82

t tests -Means: Difference between two independent means (two groups)

**Analysis:** Sensitivity: Compute required effect size **Input:** Tail(s) One

α err prob 0.05 0.95 Power (1- $\beta$  err prob) = Sample size group 1 61 Sample size group 2 16

Noncentrality parameter  $\delta$ **Output:** 3.3198817

Critical t 1.6654254

Df 75

Effect size d 0.9324876

FIGURE-2 MEAN SCORE DIFFERENCES OF PREDISPOSITIONS FOR SAFE (N=61) VERSUS RISK (N=16) OPTION TAKEN BY THE PARTICIPANTS (N=77) IN THE FIRST TRIAL OF SHARE MARKET TASK

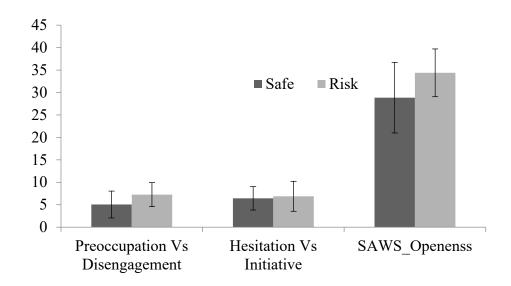


TABLE-2
MEAN SCORE DIFFERENCES OF PREDISPOSITIONS FOR SAFE (N=51) VERSUS RISK (N=26) OPTION TAKEN BY THE PARTICIPANTS (N=77) IN SECOND IN THE TRIAL OF SHARE MARKET TASK

	Safe Optio	n(n=51)	Risk Opti	on (n=26)	_		
Personality Dispositions	Mean	SD	Mean	SD	T	p-value	d
Preoccupation vs Disengagement	4.98	2.98	6.54	2.94	-2.18	0.033	0.53
Hesitation vs Initiative	6.18	2.54	7.19	3.09	-1.54	0.128	0.36
SAWS_Openness	28.47	7.52	33.00	7.33	-2.52	0.014	0.61

t tests - Means: Difference between two independent means (two groups)

Analysis: Sensitivity: Compute required effect size Input: Tail(s) = One  $\alpha$  err prob = 0.05 Power (1- $\beta$  err prob) = 0.95

Sample size group 1 = 51 Sample size group 2 = 26

**Output:** Noncentrality parameter  $\delta = 3.3198817$ 

Critical t = 1.6654254

Df = 75

Effect size d = 0.8000115

# FIGURE-3 MEAN SCORE DIFFERENCES OF PREDISPOSITIONS FOR SAFE (N=51) VERSUS RISK (N=26) OPTION TAKEN BY THE PARTICIPANTS (N=77) IN SECOND IN THE TRIAL OF SHARE MARKET TASK

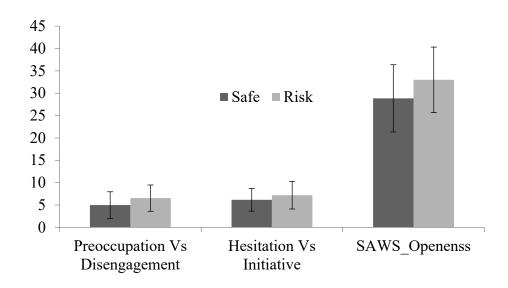


TABLE-3
MEAN SCORE DIFFERENCES OF PREDISPOSITIONS FOR STAY (N=53) VERSUS CHANGE (N=24) THE PREVIOUSLY ADOPTED OPTION (SAFE OR RISK) BY THE PARTICIPANTS (N=77) AFTER THE FIRST TRIAL OF THE SHARE MARKET TASK

	Stay (1	n=53)	Change	(n=24)			
Personality Dispositions	Mean	SD	Mean	SD	t	p-value	d
Preoccupation vs Disengagement	5.05	2.98	6.50	3.01	-1.97	0.053	0.48
Hesitation vs. Initiative	6.58	2.74	6.38	2.86	.31	0.760	0.07
SAWS Openness	28.83	7.81	32.58	6.96	-2.02	0.047	0.51

t tests - Means: Difference between two independent means (two groups)

**Analysis:** Sensitivity: Compute required effect size **Input:** Tail(s) = One

 $\alpha$  err prob = 0.05 Power (1- $\beta$  err prob) = 0.95 Sample size group 1 = 53 Sample size group 2 = 24

Output: Noncentrality parameter  $\delta = 3.3198817$ 

Critical t = 1.6654254

Df = 75

Effect size d = 0.8168163

FIGURE 4
MEAN SCORE DIFFERENCES OF PREDISPOSITIONS FOR STAY (N=53) VERSUS CHANGE (N=24) THE PREVIOUSLY ADOPTED OPTION (SAFE OR RISK) BY THE PARTICIPANTS (N=77) AFTER THE FIRST TRIAL OF THE SHARE MARKET TASK

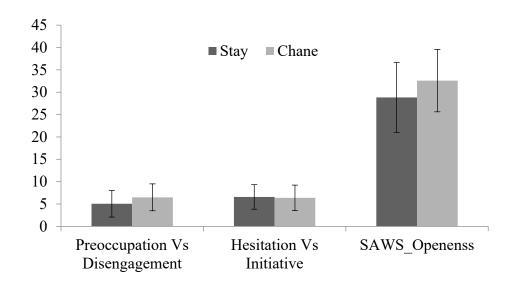


TABLE-4 CROSS-TABULATION OF THE OPTION TAKEN (SAFE OR RISK) BY THE PARTICIPANTS (N=77) IN TRAIL ONE AND TWO OF THE SHARE MARKET TASK

SafeVsRisk_1	* SafeVs	Risk_2 Cross tabulation				
			SafeVsR	isk 2		$\chi^2$ (p-value)
			Safe	Risk	Total	
SafeVsRisk_1	Safe	Count	44	17	61	4.565*(0.04)
		% within SafeVsRisk_1	72.1%	27.9%	100.0%	
	Risk	Count	7	9	16	
		% within SafeVsRisk_1	43.8%	56.3%	100.0%	
Total		Count	51	26	77	

TABLE 5
MEAN SCORE DIFFERENCES OF PREDISPOSITIONS FOR LOW REGRET (N=39) VERSUS
HIGH REGRET (N=38) FELT BY THE PARTICIPANTS (N=77) IN THE SECOND
TRIAL OF THE SHARE MARKET TASK

	Low Reg	ret (n=39)	High Re	gret (n=38)			
Personality Dispositions	Mean	SD	Mean	SD	t	p-value	d
Preoccupation vs Disengagement	6.46	3.10	4.52	2.67	2.93	.005	0.67
Hesitation vs Initiative	7.48	2.78	5.52	2.39	3.31	.001	0.76
SAWS Openness	32.41	7.74	27.52	6.93	2.91	.005	0.67

**t tests** - Means: Difference between two independent means (two groups)

**Analysis:** Sensitivity: Compute required effect size **Input:** Tail(s) = One

 $\alpha$  err prob = 0.05 Power (1- $\beta$  err prob) = 0.95 Sample size group 1 = 39 Sample size group 2 = 38

**Output:** Noncentrality parameter  $\delta = 3.3198817$ 

Critical t = 1.6654254

Df = 75

Effect size d = 0.7567351

The analysis of present work for the mean difference (as shown in Tables one and two) suggests that individuals who look for better opportunities (even with higher risk) are higher in preoccupation vs. disengagement dimensions of action orientation and openness to experiences. Not only this, but they also tried to explore other alternatives in expectation of positive outcomes (as shown in table three). Further evidence of this can be seen from the cross-tabulation analysis. The analysis shows that out of 61 participants (who chose the safe option in trial one), 44 of them chose the safe option again in trial two also, whereas 17 (27.9% safe-risky) switched to the risky option. Similarly, out of 16 participants (who chose

risky options in trial one), 7 (43.8% risky-safe) of them switched to the safe option in trial two, and nine again chose the risky option.

Further support for the argument is found where no significant difference in action orientation and openness based on regret experience in the trial one is seen. However, in trial two, individuals high on preoccupation vs. disengagement, hesitation vs. initiative action orientation, and openness to experience reported significantly less experience of regret than their counterparts (as reported in table five). This finding supports the argument that even after repeated failure, individuals high on action orientation and openness regulate their negative emotions better.

This finding also supports the action orientation literature. Beckman and Kuhl (1984) suggested that individuals with action orientation tend to 'spreading the alternative.' The 'spreading the alternative' suggests that the individuals with action orientation overrate the merits of any alternatives they choose to ensure that they remain committed to their decision unless crucial and unexpected information is presented. However, where literature suggests for 'action effect' (Connolly & Zeelenberg, 2002), an action that leads to failure will cause greater regret, in the present analysis, no significant difference in regret experienced in trial one or two was found for whichever option the participants chose. Therefore, hypothesis one is supported. It can be concluded that people high on action orientation and openness to experiences take risky options, explore alternatives, regulate their adverse affective reactions better, and approach life in ways that are wisdom development enabling.

CORRELATION BETWEEN TASK REGRET AND DIMENSIONS OF WISDOM AND ACTION ORIENTATION SCALE TABLE 6

		Preoccupation	Hesitation							
		VS	NS	Volatility vs						
Variable	SM_regret2	SM regret2 Disengagement	Initiative	Persistence	SAWS EX	Persistence SAWS EX SAWS EM SAWS R	SAWS R	SAWS H	SAWS O	SAWS O SAWS Total
SM_regret1	.697**(.000)		205(.074)	059(.609)	077(.505)	193(.092)205(.074)059(.609)077(.505)221(.053)108(.352)053(.649)	108(.352)		146(.205)139(.227)	139(.227)
SM_regret2	1	307**(.007)	- .296**(.009)	186(.104)	110(.341)	186(.104)110(.341)271*(.017)215(.060)165(.152)322**(.004)259*(.023)	215(.060)	165(.152)	322**(.004)	259*(.023)
Preoccupation vs Disengagement		1	.308**(.006)	.155(.179)	068(.555)	1 .308**(.006) .155(.179)068(.555) .250*(.029)084(.466) .081(.483) .579**(.000)	084(.466)	.081(.483)	.579**(.000)	.195(.089)
Hesitation vs Initiative			1	(329**(.004)018(.875)	018(.875)	.259*(.023) .031(.787)	.031(.787)	.019(.867)	.276*(.015)	.135(.241)
Volatility vs Persistence				1	.010(.933)	1 (010(.933)180(.117)004(.972)053(.644)	004(.972)	.053(.644)	.221(.053)	.221(.053) .110(.340)
J.1 /XL 1 ' ' 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		.,		٠,	O II II .' D G .'! ! .'	(				

SM: share market task, EX: life experiences, EM: emotional regulation, R: reflection, H: Humor, O: openness

# Power Analysis:

t-tests - Correlation: Point biserial model

Sensitivity: Compute required effect size

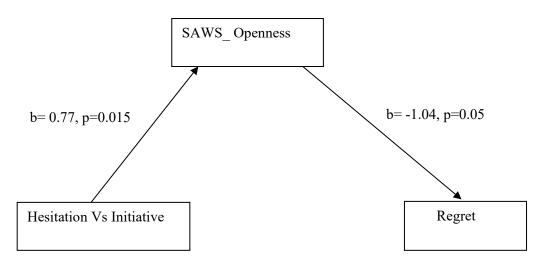
= Two = 0.05 = 0.95  $\alpha$  err prob Tail(s) Analysis: Input:

Power  $(1-\beta \text{ err prob})$ 

= 3.6519686= 1.9921022П Noncentrality parameter δ Critical t Df Total sample size Output:

= 0.3842329Effect size  $|\rho|$ 

FIGURE 5 AN INDIRECT EFFECT OF HESITATION VS INITIATIVE ON REGRET EXPERIENCE THROUGH OPENNESS



Direct effect b= -3.28, p= 0.01Indirect effect b= -0.80, 95% CI [-2.06, -0.085]

The third question's answer was sought through correlation and mediation regression analysis to check the possible predictive power of personality disposition for negative affect handling. The power analysis through G power with an alpha = .05 and power = 0.95 for correlation analysis was also conducted. The effect size in table six is 0.38, which is moderate.

The correlation analysis suggests a significant correlation between sub-dimensions of action orientation, wisdom scale, and regret experienced in trial two of the decision-making task. The mediator regression analysis showed that hesitation vs. initiation (action orientation) positively openness (b= 0.77, p=0.015) and negatively predicted regret (b = -3.28, p = 0.01), openness also negatively predicted regret (b = -1.-4, p = 0.05). The mediator regression analysis results show that openness significantly mediates the effect of hesitation vs. initiative tendency on the experience of regret, b= -0.80, 95% BCa CI [-2.00, -.085]. The mediation effect size and Preacher & Kelly's Kappa Squared were found to be 4% (R2=.04) and 8% (k2=.08), respectively, indicating a small effect size. Though the effect size is small, the result does indicate that the action orientation (hesitation vs. initiative) negatively predicts regret experience; similarly, openness also negatively predicts regret experience. However, the interaction effect of action orientation and openness yields less negative prediction. This suggests that individuals who have action orientation (hesitation vs. initiative) and openness, both personality dispositions experience more regret than people having only either disposition. This finding again supports this paper's contention that individuals higher on openness or action orientation experience less regret than their counterparts but individuals who have both of these personality dispositions experience more regret (due to the interaction effect).

Therefore, this paper's findings support that individuals with action orientation and openness both the personality dispositions experience more regret, yet they explore more, take the risk, and as Beckman and Kuhl (1984) suggested, they 'spread the alternatives.' The possible explanation for such evaluation and thus a continuation of the same reactions may revolve around the theme of 'at least I tried' (Itzkin, Van Dijik, & Azar, 2016), giving them richer experiences and more satisfaction with their life gradually leading to the personal wisdom development.

### LIMITATION AND SUGGESTION FOR FURTHER RESEARCH

Though the methodology used here provides empirical validation (with large mean difference effect size and small in mediator regression analysis), it is still limited in the ecological validity. The post-doc power analysis suggests a reasonable effect size in all the analyses, but small sample sizes limit generalization. Therefore, these results can be taken as proof of concept and further developed in future studies. Complimenting these results with a reflective interview or diary method will provide a more holistic understanding. Similarly, demographic factors are critical in understanding wisdom development; therefore, replicating this work with complementing methodology on the diverse population on a large scale will provide holistic insight into pre-experience inclinations on the ontogenesis of wisdom. This kind of insight can help to design interventions for wisdom development. This is need of the hour as Isaac Asimov, way back in 1988, said that "The saddest aspect of life right now is that science gathers knowledge faster than society gathers wisdom," and today we need it more than ever before.

### ACKNOWLEDGEMENT

We are grateful to the Cognitive Science Research Initiative, Department of Science and Technology, Government of India to provide financial support to the work. We would also like to acknowledge the support of all the participants in the present work.

### REFERENCES

- Baltes, P.B., & Staudinger, U.M. (2000). A metaheuristic (pragmatic) to orchestrate mind and virtue toward excellence. *American Psychologist*, 55, 122–136. doi: 10.1037/0003-066X.55.1.122
- Beckmann, J., & Kuhl, J. (1984). Altering information to gain action control: Functional aspects of human information processing in decision making. *Journal of Research in Personality*, 18, 224–237.
- Connolly, T., & Zeelenberg, M. (2002). Regret in decision making. *Current Directions in Psychological Science*, 11, 212–216.
- de Lange, M.A., & van Knippenberg, A. (2009). To err is human: How regulatory and action orientation predict performance following errors. *Journal of Experimental Social Psychology*, 45, 1192–1199.
- Digman, J.M. (1997). Higher-order factors of the Big Five. *Journal of Personality and Social Psychology*, 73, 1246–1256. doi:10.1037/0022-3514.73.6.1246
- Grass, J., Krieger, F., Paulus, P., Greiff, S., Strobel, A., & Strobel, A. (2019). Thinking in action: Need for Cognition predicts Self-Control together with Action Orientation. *PLoS ONE*, *14*(8), e0220282. https://doi.org/10.1371/journal.pone.0220282
- Itzkin, A., Van Dijk, D., & Azar, O.H. (2016). At Least I Tried: The Relationship between Regulatory Focus and Regret Following Action vs. Inaction. *Front. Psychol.*, 7, 1684. doi: 10.3389/fpsyg.2016.01684
- Jeste, D.V., Ardelt, M., Blazer, D., Kraemer, H.C., Vaillant, G., & Meeks, T.W. (2010). Expert consensus on characteristics of wisdom: A delphi method study. *The Gerontologist*, 50, 668–680. doi: 10.1093/geront/gnq022
- Kahneman, D., & Riis, J. (2005). Living, and Thinking about It: Two Perspectives on Life. In F.A. Huppert, N. Baylis, & B. Keverne (Eds.), *The Science of Well-Being* (pp. 285–304). Oxford University Press.
- Kazen, M., Kaschel, R., & Kuhl, J. (2008). Individual differences in intention initiation under demanding conditions: Interactive effects of state vs. action orientation and enactment difficulty. *Journal of Research in Personality*, 42, 693–715.
- Kuhl, J. (1981). Motivational and functional helplessness: The moderating effect of state versus action orientation. *Journal of Personality and Social Psychology*, 40, 155–170.

- Kuhl, J. (1994a). A theory of action and state orientation. In J. Kuhl & J. Beckmann (Eds.), *Volition and personality: Action vs state orientation* (pp. 9–46). Seattle: Hogrefe & Huber.
- Kuhl, J. (1994b). Action and state orientation: Psychometric properties of the action control scales (ACS-90). In J. Kuhl & J. Beckmann (Eds.), *Volition and personality: Action vs. state orientation* (pp. 47–59). Gottingen: Hogrefe.
- Kuhl, J. (2000). A functional-design approach to motivation and self-regulation: The dynamics of personality systems interactions. In M. Boekaerts, P.R. Pintrich, & M. Zeidner (Eds.), *Handbook of self-regulation* (pp. 111–169). San Diego, CA: Academic Press.
- Kuhl, J., & Goschke, T. (1994). A theory of action control: Mental subsystems, models of control, and volitional conflict-resolution strategies. In J. Kuhl & J. Beckmann (Eds.), *Volition and personality: Action vs state orientation* (pp. 93–124). Seattle: Hogrefe & Huber.
- Kuhl, J., & Helle, P. (1994). Motivational and volitional determinants of depression: The degenerated-intention hypothesis. In J. Kuhl & J. Beckmann (Eds.), *Volition and personality: Action vs state orientation* (pp. 283–296). Seattle: Hogrefe & Huber.
- McElroy, T., & Dowd, K. (2007). Action orientation, consistency and feeling of regret. *Judgement and Decision Making*, 2(6), 333–341.
- McKee, P., & Barber, C. (1999). On defining wisdom. *The International Journal of Aging and Human Development*, 49(2), 149–164.
- Mickler, C., & Staudinger, U.M. (2004). *Manual for the assessment of self-related wisdom*. Bremen, Germany: International University Bremen.
- Mickler, C., & Staudinger, U.M. (2008). Personal wisdom: Validation and age-related differences of a performance measure. *Psychology and Aging*, *23*, 787–799. doi:10.1037/a0013928
- Moss, S. (2016). *Action versus state orientation*. Retrieved September 10, 2020, from https://www.sicotests.com/psyarticle.asp?id=208#:~:text=Dimensions,instance%2Dafter%20failu res%20or%20threats
- Sharma, A., & Dewangan, R.L. (2017). Can wisdom be fostered: Time to test the model of wisdom. Cogent Psychology, 4(1), 1–17. https://doi.org/10.1080/23311908.2017.1381456
- Sharma, A., & Dewangan. (2018). Indian Socio-Cultural Conception of Wisdom: Does it Follow Universal Understanding? *Journal of Psychology*, 6(1), 5–19
- Sharma, A., & Sharma, A. (2021). Turnover Intention and Procrastination: Causal Contribution of Work-Life (Im)Balance. *Journal of Contemporary Issues in Business and Government*, 27(2), 1891–1901. https://doi.org/10.47750/cibg.2021.27.02.199
- Staudinger, U.M., & Glück, J. (2011). Psychological wisdom research: Commonalities and differences in a growing field. *Annual Review of Psychology*, 62, 215–241. doi: 10.1146/annurev.psych.121208.131659
- Staudinger, U.M., & Kunzmann, U. (2005). Positive adult personality development: Adjustment and/or growth? *European Psychologist*, 10, 320–329. doi:10.1027/1016-9040.10.4.320
- Staudinger, U.M., Dörner, J., & Mickler, C. (2005). Wisdom and personality. In R. Sternberg & J. Jordan (Eds.), *A handbook of wisdom: Psychological perspectives* (pp. 191–219). New York, NY: Cambridge University Press.
- Stiensmeier-Pelster, J. (1994). Choice of decision-making strategies and action versus state orientation. In J. Kuhl & J. Beckmann (Eds.), *Volition and personality* (pp. 167–176). Gottingen, Germany: Hogrefe & Huber.
- Van Putten, M., Zeelenberg, M., & Van Dijk, E. (2009). Dealing with missed opportunities: Action vs state orientation moderates inaction inertia. *Journal of Experimental Social Psychology*, 45, 808–815.
- Webster, J.D. (2007). Measuring the character strength of wisdom. *The International Journal of Aging and Human Development*, 65, 163–183. doi: 10.2190/AG.65.2.d
- Webster, J.D. (2013). Identity, wisdom, and critical life events in younger adulthood. In J. Sinnott (Ed.), *Positive psychology: Advances in understanding adult motivation* (pp. 61–77). New York: Springer.

- Weststrate, N.M., & Glück, J. (2017). Hard-earned wisdom: Exploratory processing of difficult life experience is positively associated with wisdom. *Developmental Psychology*, *53*, 800–814. doi: 10.1037/dev0000286
- Wink, P., & Staudinger, U.M. (2015). Wisdom and psychosocial functioning in later life. *Journal of Personality*, 84, 306–318. doi: 10.1111/jopy.12160
- Yang, S.Y. (2008). A process view of wisdom. Journal of Adult Development, 15, 62–75.
- Zeelenberg, M., Nijstad, B.A., Van Putten, M., & Van Dijk, E. (2006). Inaction inertia, regret and valuation: A closer look. *Organizational Behavior and Human Decision Processes*, 101, 89–104.