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# [Mediating Role of Organizational Virtuosity in Relationship of Ethical Leadership and Work Outcomes - A Study of Higher Education Sector of Punjab, Pakistan]

### Dr. Khalid Rehman

Assistant Professor, Institute of Business Administration, Gomal University, Dera Ismail Khan, Khyber Pakhtunkhwa, Pakistan. [khalidrehman@gu.edu.pk](mailto:khalidrehman@gu.edu.pk)

### Dr. Farhat Ullah Khan

Assistant Professor, Institute of Business Administration, Gomal University, Dera Ismail Khan, Khyber Pakhtunkhwa, Pakistan. [farhatullah@gu.edu.pk](mailto:farhatullah@gu.edu.pk)

### Dr. Adnan Khan

Assistant Professor, Institute of Business Administration, Gomal University, Dera Ismail Khan, Khyber Pakhtunkhwa, Pakistan. [adnankhan@gu.edu.pk](mailto:adnankhan@gu.edu.pk)

### Dr. Nafid Khan

Assistant Professor, Institute of Business Administration, Gomal University, Dera Ismail Khan, KP, Pakistan. [nafidkhan39@gmail.com](mailto:nafidkhan39@gmail.com)

### Dr. Muhammad Asad Ullah

Multimedia University Cyberjaya, Malaysia.

Crossponding author Email: [asadmpa@gmail.com](mailto:asadmpa@gmail.com)

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**ABSTRACT**

The current study examined the mediating effect of organizational virtuousness in the relationship between ethical leadership and work outcomes in the higher education sector of the province of Punjab, Pakistan. Respondents of the study included randomly selected 312 faculty members employed at universities established before 2015. A combined questionnaire measuring ethical leadership, organizational virtuousness, knowledge hiding, and organizational citizenship behaviour was used to collect data. Data were analyzed through SPSS Version 27 by applying descriptive and inferential analysis. Our study revealed that ethical leadership predicts knowledge hiding, organizational citizenship behaviour, and organizational virtuousness. The study also revealed that organizational virtuousness predicts knowledge-hiding behaviour. We also found that organizational virtuousness fully mediated the relationship between ethical leadership and knowledge hiding. Further, it was also found that organizational virtuousness partially mediated the relationship between ethical leadership and OCB. Based on the study's findings, the researcher has discussed implications of the study and offered directions for further research.

**Key Words:** Ethical Leadership, Organizational Virtuousness, Organizational Citizenship Behaviour, Knowledge Hiding

**Introduction**

Widespread commercial crimes due to the unethical conduct of directors during the last two decades ignited the need for ethical guidelines for managers and employees in the organization (Khoreva & Wechtler, 2020; Rokhman, 2010; Neubert, Carlson, Kacmar, Roberts, & Chonko, 2009). Consequently, positive organizational scholarship (POS) emerged as a broader field focused on developing and incorporating ethical guidelines in the organizations' human resource development (HRD) programs. These HRD programs mainly focused on cultivating ethical values (Khan, Abbas, Gul, & Raja, 2013) and shaping the ethical behaviour of organizational members (Mehnaz, Asadullah, Hussain, & Rehman, 2020). It also triggered research on work as well as virtue ethics to investigate how ethical leadership promotes a virtuous culture in organizations and shapes employees' positive behaviour (Den Hartog, 2015) and how it discourages counterproductive behaviour (David, Karl, Greenbaum, & Kuenzi, 2012).

The results of studies on this stream of POS suggest that ethical leadership establishes a value system that may glue employees and organizations together (Treviño, Hartman, & Brown, 2000). It is effective in creating a culture of integrity (Zeng & Xu, 2020), cooperation and trust (Tümkan, Dağlı, Altınay, Altınay, & Sharma, 2021) as well as compassion, forgiveness (Metwally, Ruiz-Palomino,

Metwally, & Gartzia, 2019; Bedi, Alpaslan, & Green, 2016) that may cultivate a higher level of OCB (Nemr & liu, 2021; Walumbwa, Hartnell, & Misati, 2017; Mo & Shi, 2017) and discourages Knowledge hiding in the organization (Alia & Sağsan, 2021). The organizational culture of integrity, trust, compassion, and cooperation corresponds with organizational virtuousness (Abdullah, Dechun, Ali, & Usman, 2019) . It suggests that EL is instrumental in fostering positive work outcomes, such as OCB, on the one hand (Zhao & Xia, 2018) and curtails unethical behaviors, such as KH, on the other (David, Karl, Greenbaum, & Kuenzi, 2012).

Regardless of the empirical evidence suggesting that ethical leadership promotes OCB (Zhao & Xia, 2018; Shin, 2012) or deters Knowledge hiding in the organization, the literature suggests that ethical leadership does not directly translate employees' outcomes; rather, it needs certain mediating mechanisms (Eissa, Chinchanchokchai, & Wyland, 2017) . Hence, a fundamental question about the relationship between ethical leadership and work outcomes arises whether these outcomes are directly translated or require any transactional mechanism. Hence, a research deficit exists about ethical leadership's effect on work outcomes. The current study addressed this question and examined the mediating role of organizational virtuousness in the relationship between ethical leadership and knowledge hiding and organizational citizenship behaviour in organizations.

### **Literature Review**

#### **Ethical Leadership and Knowledge Hiding**

Knowledge hiding refers to destructive and immoral behavior that involves intentional concealment and withholding Knowledge from others (Babič, Černe, Connelly, Dysvik, & Škerlavaj, 2019; Connelly C. E., Zweig, Webster, & Trougakos, 2012) . It is considered as a contrast to knowledge sharing. Extant literature has investigated the outcomes of Knowledge hiding in organizations (Connelly, Zweig, Webster, & Trougakos, 2012) . However, there is a paucity of research on antecedents that buffer Knowledge hiding (Connelly, Zweig, Webster, & Trougakos, 2012) . One mechanism that may discourage knowledge hiding is ethical leadership. It shapes the ethical behaviour of employees who refrain from hiding Knowledge of the organization (Abdullah, Dechun, Ali, & Usman, 2019) . Studies suggest that when employees perceive their leaders as ethical and morally upright, they are less likely to engage in knowledge-hiding behaviors. In organizations with ethical leaders, employees are more inclined to share Knowledge openly and cooperate with their colleagues because they trust that their contributions will be treated fairly and with integrity. This fosters a culture of transparency and collaboration, reducing the occurrence of knowledge hiding, which can hinder organizational effectiveness and innovation. Based on this, it is hypothesized that;

*H1: Ethical leadership negatively affects knowledge hiding.*

### **Ethical Leadership and OCB**

Organizations strive to have a workforce that displays voluntary and extra-role behavior at the workplace, which is crucial for modern organization success (Shahzad, 2011). This discretionary, extra role and voluntary behaviour is termed Organizational Citizenship Behaviour (Organ, 1997). OD managers and researchers investigated factors that may prove instrumental in shaping OCB. Studies suggest employees follow the executive, displaying and practicing normatively appropriate behavior. Hence, this ethical leadership may be pivotal in shaping OCB among employees (Walumbwa, Hartnell, & Misati, 2017). When employees realize their leaders practice what they preach, they trust them. They also engage in pro-social behaviors such as OCB. Hence, it may be hypothesized;

*H2: Ethical leadership positively relates to employees' organizational citizenship behaviour.*

### **Ethical Leadership and Organizational Virtuosity**

Incidents of commercial crimes during the last 20 years have accentuated the importance of workplace ethics and ethical leadership in cultivating an organizational environment marked by forgiveness, trust, compassion, and integrity, which can encourage pro-social behavior in the workplace (Kalshoven & Boon, 2012). Various research studies have underscored the pivotal role of moral principles in effective leadership, inspiring followers through ethical conduct. Ethical leadership is defined by actions that adhere to established norms, ethical standards, personal behavior, and interactions with others (Brown, Treviño, & Harrison, 2005). Alia & Sağsan (2021) asserted that ethical leadership plays a vital role in fostering a culture of virtuosity within an organization that promotes positive behaviour among employees. Literature suggests that ethical leaders contribute to an organizational culture characterized by forgiveness, trust, integrity, and compassion, promoting favorable outcomes for individuals and the organization (Alia & Sağsan, 2021). Studies further highlight the positive impact of ethical leadership on organizational virtuosity, emphasizing the vital role of ethical leaders in cultivating positive behaviors within organizations.

*H3: Ethical leadership has a positive relation with organizational virtuosity.*

### **Organizational Virtuosity and Knowledge Hiding**

Organizational virtuosity and knowledge hiding acquired substantial attention within the broader field of organizational behaviour (He & Wei, 2022). Organizational virtuosity is characterized by an ethical culture of trustworthiness, compassion, integrity, and forgiveness (Brown, Treviño, & Harrison, 2005). Further, it glues the employees to the organization through its value system and makes them feel worthwhile. When employees perceive that their actions are subject to scrutiny in a positive fashion, they are less likely to engage in knowledge hiding (Koon, 2022). Instead, they experience a stronger

sense of responsibility toward the organization and its members (Magnier-Watanabe, Uchida, Orsini, & Benton, 2017). OV fosters a sense of responsibility and moral obligation and deters knowledge hiding (Shah & Hashmi, 2019) by fostering a transparent and collaborative work environment (Nikandrou & Tsachouridi, 2015). We hypothesize that;

*H4: Organizational virtuousness has a negative relation with knowledge hiding.*

#### **Organizational Virtuousness and Organizational Citizenship Behaviour**

Organizational virtue creates a culture of trustworthiness and moral integrity (Cameron, Bright, & Caza, 2004), which may ignite positive emotions among the employees and make them glued to the organization (Ribeiro & Rego, 2009). Consequently, they are engaged in voluntary acts that promote the organization's overall well-being and display extra-role behavior or OCB (Kooshki & Zeinabadi, 2016). Employees' perceptions of their firm as virtuous cultivate positive emotions among them. Consequently, they exhibit empathetic, respectful, and helpful behavior. These positive perceptions of the organization foster a sense of loyalty, trust, and organizational identification. Employees feel valued and cared for by the organization, encouraging them to incorporate their organizational membership into their self-identity. In other words, organizational virtuousness promotes Organizational Citizenship Behaviour (OCB) among the employees (Spector & Fox, 2002).

*H5: Organizational virtuousness has a positive relation with OCB.*

#### **Organizational Virtuousness as Mediator in Ethical Leadership and Work Outcomes' Relation**

Much research indicates that ethical leadership leads to positive individual and organizational outcomes. These results could be translated directly or through transactional processes (Zhao & Xia, 2018). It might encourage pro-social conduct among employees in companies like OCB (Nemr & liu, 2021) and deter bad and unethical behavior like hiding Knowledge (Abdullah, Dechun, Ali, & Usman, 2019; Connelly, Zweig, Webster, & Trougakos, 2012). In other words, business employees exhibit the same conduct as their superiors. When their supervisors treat them fairly, they behave positively. Contrary to this, subordinates conceal Knowledge when their bosses advance their interests (Walumbwa, Hartnell, & Misati, 2017).

Irrespective of the empirical shreds of evidence proving the direct effect of EL on work outcomes, the literature depicts that EL requires transactional means to translate the outcomes of employees (Eissa, Chinchanchokchai, & Wyland, 2017). Literature also depicts that positive organizational factors characterizing OV may serve as transactional mechanisms between leadership behaviour and OCB (Shah & Hashmi, 2019) or employees' knowledge hiding (Jahanzeb, Fatima, Bouckenoghe, & Bashir, 2019).

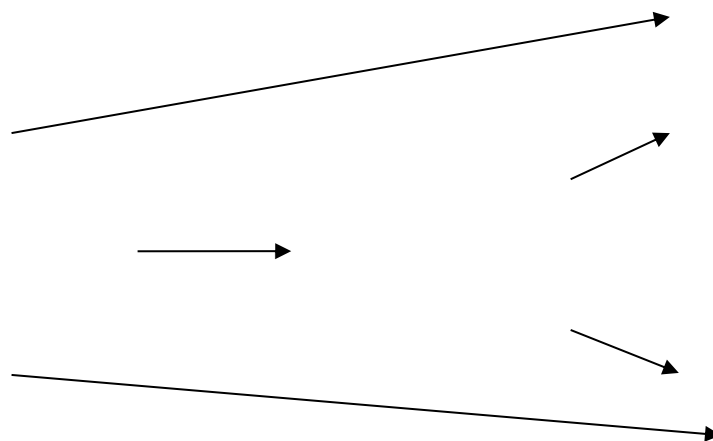
Employees may support the company and engage in pro-social conduct like OCB if they realize that the leadership has established a culture of virtue that includes justice, integrity, compassion, forgiveness, and trust (Walumbwa, Hartnell, & Misati, 2017). On the other hand, Asadullah et al. (2022) proposed that employees may begin to distance themselves from the leadership and engage in counterproductive behaviour, such as concealing information from coworkers and superiors, if they believe that the leader is not following the organization's ethical standards or is acting in a way that promotes self-interest rather than the common good. Thus, it may be hypothesized that

*H6: Organizational virtuousness mediates the relationship between ethical leadership and OCB.*

*H7: Organizational virtuousness mediates the relationship between ethical leadership and knowledge hiding.*

### **Theoretical Underpinning**

The study is based on social exchange theory (SLT). According to SLT, social conduct results from transactional procedures that seek to maximize gain and reduce loss (Homans, 1974). Based on the tenets of SLT, organizational exchange mechanisms such as OV may function as transactional mechanisms by mediating the relation of ethical leadership and knowledge-hiding as well as employees' OCB in organizations. Therefore, ethical leadership is believed to foster an environment of virtue within the organization, decreasing Knowledge concealing and enhancing corporate citizenship behaviour.



**Figure 1: Research Model**

### **Methods**

**Respondents:** The respondents of this cross-sectional study included 385 randomly selected faculty members of public and private sector universities in the province of Punjab. Three hundred eighty-five (385) questionnaires were administered to the sampled respondents, of which 321 were returned, giving a response rate of 83%. However, nine (9) more questionnaires were excluded as

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these were incomplete, leaving behind 312 workable questionnaires, and the response rate was reduced to 81%, which is sufficient for such studies.

**Instrument:** Data were collected using a survey questionnaire that measured the demographic and main variables of the study. We measured ethical leadership through a 10 items scale developed by Brown et al. (2005) , Knowledge hiding through a 12 items scale developed by (Connelly, Zweig, Webster, & Trougakos, 2012), OCB through 18 items scale by Podsakoff et al. (2000), and organizational virtuousness through a 14 items scale developed by Cameron et al. (2004).

**Data Analysis and Results:** Data were analyzed through SPSS Version 27 using correlation and regression analysis.

**Table 1: Factor Loadings, Cronbach's Reliability, CR, and AVE**

Constructs	Items	Outer Loadings	Cronbach's Reliability	CR	AVE
Ethical Leadership (10×items)	EL1	0.834	0.98	0.97	0.74
	EL2	0.865			
	EL3	0.904			
	EL4	0.826			
	EL5	0.844			
	EL6	0.882			
	EL7	0.884			
	EL8	0.857			
	EL9	0.907			
	EL10	0.777			
Organizational Virtuousness (10×items)	OV1	0.89	0.98	0.98	0.76
	OV2	0.877			
	OV3	0.928			
	OV4	0.865			
	OV5	0.873			
	OV6	0.88			
	OV7	0.836			
	OV8	0.834			
	OV9	0.855			
	OV10	0.912			
	OV11	0.885			
	OV12	0.835			
	OV13	0.802			
	OV14	0.889			
Knowledge Hiding (12×items)	KH1	0.836	0.97	0.98	0.77
	KH2	0.839			

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	KH3	0.869			
	KH4	0.879			
	KH5	0.902			
	KH6	0.857			
	KH7	0.884			
	KH8	0.912			
	KH9	0.921			
	KH10	0.855			
	KH11	0.889			
	KH12	0.868			
Organizational Citizenship					
Behaviour	OCB1	0.883	0.99	0.98	0.79
(16×items)	OCB2	0.911			
	OCB3	0.906			
	OCB4	0.905			
	OCB5	0.896			
	OCB6	0.914			
	OCB7	0.873			
	OCB8	0.864			
	OCB9	0.899			
	OCB10	0.908			
	OCB11	0.877			
	OCB12	0.885			
	OCB13	0.925			
	OCB14	0.873			
	OCB15	0.881			
	OCB16	0.917			
	OCB17	0.829			
	OCB18	0.837			

**Demographics of the Respondents**

Details of the demographics, i.e., gender, age, university type, designation, and experience of the respondents, are presented in Table 2.

**Table 2: Demographics of the Respondents**

	Description	Frequency	Percent
<b>Gender</b>	Male	193	62
	Female	119	38
	<b>Total</b>	<b>312</b>	<b>100</b>
<b>Age</b>	20-30	69	22
	31-40	95	30
	41-50	68	22



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	Above 50	80	26
	<b>Total</b>	<b>312</b>	<b>100</b>
<b>University</b>	Private	114	37
	Public	198	63
	<b>Total</b>	<b>312</b>	<b>100</b>
<b>Designation</b>	Lecturer	153	49
	Assistant Professor	122	39
	Associate Professor	22	7
	Professor	15	5
	<b>Total</b>	<b>312</b>	<b>100</b>
<b>Experience</b>	1-5 Years	160	51
	6-10 Years	108	35
	11-15 Years	23	7
	16-20 Years	13	4
	More than 20 Years	8	3
	<b>Total</b>	<b>312</b>	<b>100</b>

**Correlation Analysis**

The findings of the Pearson's correlation in Table 3 depict that OV ( $r=0.546$ ,  $P<0.05$ ) and OCB ( $r=0.576^{**}$ ,  $P<0.05$ ) have a significant positive correlation with EL. Likewise, there is a noteworthy positive correlation between OV and OCB ( $r=0.681^{**}$ ,  $P<0.05$ ).

Moreover, it is noteworthy that there is a weak positive correlation between KH and EL ( $r=0.082^{**}$ ,  $P<0.05$ ). Additionally, there is a weak positive correlation between OV and KH ( $r=0.020^*$ ,  $P<0.05$ ).

**Table 3: Correlation Analysis**

	EL	OV	KH	OCB
EL	1			
OV	.546 <sup>**</sup>	1		
KH	0.082 <sup>**</sup>	0.020 <sup>*</sup>	1	
OCB	.576 <sup>**</sup>	.681 <sup>**</sup>	0.096 <sup>**</sup>	1

**Linear Regression Analysis**

We performed linear regression analysis to examine the relationship between the variables in the proposed model. Results depicted no significant relationship between demographic and dependent variables; therefore, we did not control any demographic variable to nullify their effect on KH and OCB, as shown in Table 4.

**Table 4: Linear Regression Analysis**

Predictor	Knowledge Hiding			Organizational Citizenship Behaviour			Organizational Virtuousness		
	B	R <sup>2</sup>	Δ R <sup>2</sup>	β	R <sup>2</sup>	Δ R <sup>2</sup>	β	R <sup>2</sup>	Δ R <sup>2</sup>
Ethical Leadership	.082	.041	.039	.576**	.332	.329	.546**	.199	.197
Organizational Virtuousness	.098	.020	.087	.681**	.232	.229			

\*\* shows P<0.05

Table 4 reveals the regression outcome of the research variables. EL predicts a 4.1% change in KH by rejecting the first hypothesis (H1). It indicates that one unit of EL causes a 0.082\*\* (P=0.0000) unit change in KH. In other words, ethical leadership positively affects knowledge-hiding behaviour. Similarly, ethical leadership is responsible for 33.2% of the change in OCB. It also implies that 0.576\*\* (P=0.0000) units of EL lead to a change in OCB, hence validating the study's second hypothesis (H2).

Further, EL predicts a 19.9% change in OV, explaining that one unit of EL results in a 0.566\*\* (P=0.0000) unit change in OV, supporting the study's 3rd hypothesis (H3). Further, OV anticipated a 2.0% change in KH, depicting that one unit of OV brings .0.098\*\* (P=0.0000) unit change in KH, disproving the 4th hypothesis (H4) of the study.

Likewise, OV predicted a 23.2% change in OCB, suggesting that one unit of OV results in 0.681\*\* (P=0.0000) unit change in the OCB of employees, supporting the 5th hypothesis (H5) of the study.

**The mediating role of OV in the relationship between EL and Work Outcomes**

While examining the mediating role of OV in the relationship of EL and KH, we found a significant indirect effect of EL on KH (b=0.203, t=1.404) and an insignificant direct effect of EL on KH in the presence of organizational virtuousness (0.147, P=0.1614>0.05). Hence, organizational virtuousness fully mediated the relationship between EL and KH, supporting the 6<sup>th</sup> hypothesis.

Table 5 further depicts a significant indirect effect of EL on OCB (b=0.1225, t=9.114) as well as a significant direct effect of EL on OCB in the presence of organizational virtuousness (0.4418, P<0.0001). Hence, organizational virtuousness partially mediated the relationship between EL and OCB, supporting the 7<sup>th</sup> hypothesis of the study.

**Table 5: Mediation Analysis**

Relationship	Total Effect	Direct Effect	Indirect Effect	Confidence Interval		Conclusion
				Lower Bound	Upper Bound	
EL-->OV-->KH	0.3506 (0.0003)	0.1476 (0.5213)	0.203	0.1147	0.2991	Full Mediation
EL-->OV-->OCB	0.5643 (0.0000)	0.4418 (0.0000)	0.1225	0.0608	0.2005	Partial Mediation

**Discussion**

Unlike common beliefs, this study reported a weaker positive relation of EL with KH by rejecting our 1<sup>st</sup> hypothesis (H1). Similar to the results of Kalshoven & Boon (2012) and Strobel et al. (2010), this study depicted that EL has an insignificant relationship with destructive work outcomes. The subordinates reciprocate the supervisor’s behaviors in an exchange process (Koay & Lim, 2022; Anser, Ali, Usman, Rana, & Yousaf, 2021). Consistent with the assumptions of SLT, this study reported that the self-serving behavior of leaders results in distrust among subordinates, and they retaliate by intentionally concealing Knowledge from the supervisor.

Our study reported a significant 33.2% change in the OCB of employees due to EL confirming our 2<sup>nd</sup> hypothesis (H2). Similar to the results of the studies of Abu Bakar et al. (2022), Huang et al. (2021), and Nemr and Liu (2021), our study suggests that OCB is promoted due to the ethical behavior of leaders. The findings of these researches depict that employees’ voluntary behavior results from transactional processes. They reciprocate employees’ perceptions of their leaders’ integrity as they trust their leaders and display OCB.

Our study reported that EL predicts a significant 19.9% change in organizational virtuousness, confirming our 3<sup>rd</sup> hypothesis (H3). Similar results have been reported by Roy et al. (2023), Alia & Sağsan (2021), Hannah et al. (2011), and Neubert et al. (Neubert, Carlson, Kacmar, Roberts, & Chonko, 2009) suggesting the leaders inspire their followers through the display of ethical conduct and succeeds in establishing a virtuous organizational culture of integrity, forgiveness, and trust. Consequently, followers reciprocate by internalizing these ethical values and displaying extra-role behavior.

Contrary to the common belief, it was found that OV predicts only a 2.0% change

in Knowledge, rejecting our 4th hypothesis (H4). Similar findings have been reported by Magnier-Watanabe et al. (2017) and Rego et al. (2010), suggesting that OV does not necessarily reduce adverse work outcomes. Transactional processes are desirable to produce positive work outcomes and curtail adverse outcomes. A study by Magnier-Watanabe et al. (2017) suggests that OV directly and indirectly affects work outcomes.

Our study reported that OV predicts a significant 23.2% change in the OCB of employees, confirming our 5th hypothesis (H5). Similar findings have been reported by Sun & Yoon (2022), Malik and Naeem (2016), and Kooshki & Zeinabadi (2016), suggesting that OV buffers destructive behaviors (e.g., Knowledge hiding) on the one hand and fosters positive outcomes (e.g., OCB) on the other hand. Further, these studies suggest that employees' perceptions of OV make them display OCB by engaging in selfless acts to help others.

While examining the mediating effect of OV in the EL and KH relationship, we found a significant indirect ( $b=0.203$ ,  $t=1.404$ ) and insignificant direct effect ( $0.147$ ,  $P=0.1614>0.05$ ) effect of EL and KH showing a full mediation. Even though our study's mediation was novice, we found certain evidence supporting our findings. Contrary to the common belief that ethical leadership produces work outcomes directly (Nemr & Iiu, 2021; Abdullah, Dechun, Ali, & Usman, 2019; Zhao & Xia, 2018; Coolen, 2012), studies (Eissa, Chinchanchokchai, & Wyland, 2017) reported that ethical leadership transforms work outcomes through a mediating fashion. The results of our study proved the propositions of Eissa et al. (2017) by suggesting that OV mediates the relation of EL and KH; hence, our 6<sup>th</sup> hypothesis (H6) was confirmed.

While examining the mediating effect of OV in EL and OCB relationship, we found a significant indirect ( $b=0.1225$ ,  $t=9.114$ ) as well as significant direct ( $0.4418$ ,  $P<0.0001$ ) effect of EL on OCB showing a partial mediation in support of our 7<sup>th</sup> hypothesis. Our findings are similar to the studies of Zhang & Liu (2019), Asad et al. (Asad, Naseem, & Faiz, 2017), Rego et al. (2010) and Ribeiro & Rego (2009). The results of these studies suggest that EL indirectly affects OCB through OV. Further, these studies depict that OV acts as an exchange mechanism to elucidate the relationship between EL and OCB. Perceptions of leaders' moral integrity foster trust among the subordinates, and they display extra-role behavior such as OCB. Our study, however, has reported a partial mediation. While investigating the reason for partial mediation, it was found that EL creates an organizational culture of integrity, trust, and forgiveness that is a shadow of OCB (Abdullah, Dechun, Ali, & Usman, 2019).

### **Conclusion**

Consistent with the assumptions of SLT, it was found that EL is a double-edged sword that promotes pro-social behavior, such as OCB, on the one hand, and

curbs destructive behaviors, such as KH, on the other hand. Further, EL creates a virtuous culture by promoting behavioral integrity, forgiveness, optimism, and trust. This virtuous culture helps the organization promote OCB and KH among the employees. This virtuous culture acts as a transactional medium between EL and work outcomes. In other words, EL indirectly affects work outcomes through OV, i.e., it promotes OCB and reduces KH through OV instead of directly affecting these outcomes.

### **Implications**

The study has certain practical implications. The findings of this study suggest that leadership development programs should prioritize ethical leadership. These programs train leaders to demonstrate integrity and transparent communication, leading to better Organizational Citizenship Behaviour (OCB) and reduced knowledge hiding. Promoting virtues like kindness and trustworthiness fosters a positive work environment, lowering knowledge hiding. Managerial training must emphasize ethical leadership, nurturing a virtuous organizational culture, influencing OCB, and minimizing knowledge hiding. Performance evaluations should include ethical leadership and virtuous contributions to incentivize ethical practices. Understanding the link between ethical leadership, organizational virtuousness, and employee behaviour aids conflict resolution and enhances team cohesion.

At theoretical frontiers, the study enhances our understanding of social exchange theory by underlining how organizational virtuousness plays a mediating role. It broadens our understanding of ethical leadership's impact by revealing its influence on positive (OCB) and negative (knowledge hiding) behaviors. By demonstrating how organizational virtuousness affects OCB and knowledge hiding, the research contributes to the literature on the interplay between organizational culture and employee behaviour. This study offers a comprehensive perspective on employee behavior, providing valuable insights for researchers and practitioners. The impact of ethical leadership in reducing knowledge hiding entirely depends on cultivating a virtuous organizational culture, emphasizing the importance of such a culture in organizations. Regarding OCB, the study identifies a partial mediation effect of organizational virtuousness, underscoring the significance of ethical leadership and a virtuous organizational culture in promoting positive employee behaviors.

### **Limitations and Further Research**

Using a cross-sectional design may limit our ability to establish causal relationships and capture the dynamics of change over time. Using longitudinal designs, future research could examine the effects of ethical leadership and organizational virtuousness on work outcomes over time. Additionally, this study examined individual perceptions and behaviors within higher education institutions.

Organizational outcomes are influenced by multiple levels of analysis, including the department, university, and societal context. Research on ethical leadership and organizational virtuousness could take a multilevel approach to explore how they interact and impact work outcomes at different levels.

The study was conducted in the higher education sector of Punjab, Pakistan. The study should be replicated in other contexts, such as regions or countries, to determine the generalizability of the results. Cultural, institutional, and contextual factors may affect the relationship between ethical leadership, organizational virtuousness, and work outcomes. These relationships can be better understood through comparative studies across cultural and organizational contexts. These relationships can be better understood through comparative studies across cultural and organizational contexts. Further, the focus on OCB and Knowledge hiding as work outcomes may restrict our understanding of the relationship between mechanisms of ethical leadership and organizational virtuousness.

Our study explained the impact of ethical leadership on work outcomes with a mediating role of organizational virtuousness. However, organizational virtuousness is likely to affect ethical leadership as well. Future research could explore the reverse mediation effect to understand how organizational virtuousness could foster ethical leadership that affects work outcomes.

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