# Linking Work-Related Quality of Life to Teaching Effectiveness: A Study of Secondary School Physical Education Teachers

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### **Abstract**

This study investigates the relationship between work-related quality of life (WROoL) and teaching effectiveness among secondary school physical education (PE) teachers. A survey methodology was used, with a sample n = 256 (males=171; females=85) comprising secondary school PE teachers from various regions. The study utilized established scales to measure WROoL dimensions, including physical environment. psychological well-being, work relations, job satisfaction, and general well-being. Teaching effectiveness was assessed through self-report measures and supervisor evaluations. Statistical analyses, including correlation and regression, were conducted to explore the associations between WROoL dimensions and teaching effectiveness. The results indicate significant correlations between various dimensions of WROoL and teaching effectiveness, with job satisfaction emerging as a particularly strong predictor. Additionally, demographic variables such as gender and locality were found to moderate these relationships. This study provides valuable insights into the factors influencing teaching effectiveness among PE teachers and highlights the importance of addressing WROoL in educational settings. Practical implications and recommendations for enhancing PE teachers' well-being and instructional effectiveness are discussed.

**Keywords:** Work-related quality of life, Teaching effectiveness, Secondary school, Physical education, Job satisfaction, Well-being and Educational settings.

### Introduction

The study "Work-related Quality of Life and Teaching Effectiveness: A Survey of Secondary School Physical Education Teachers in Muzaffargarh, Punjab, Pakistan" is a significant endeavor aiming to understand the interplay between

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work-related quality of life (WRQoL) and teaching effectiveness among physical education teachers in the Muzaffargarh region of Punjab, Pakistan.

By focusing on the unique context of secondary school physical education teachers, the research endeavors to shed light on how various aspects of the work environment influence the effectiveness of teaching in this particular domain. This study likely involves gathering data through surveys or interviews to assess the perceptions and experiences of physical education teachers regarding their work-related quality of life and its potential impact on their teaching effectiveness.

The concept of quality of work life (QWL) has garnered increasing attention in contemporary management practices. Encompassing factors such as job security, reward systems, and development opportunities (Narehan et al., 2014), QWL is instrumental in enhancing employee well-being and societal welfare (Gálvez, Tirado& Martínez,2020). In the educational context, the evolving role of teaching professionals necessitates a focus on their QWL and work conditions (Hammond, 2021).

Teacher effectiveness (TE) represents a multifaceted construct, incorporating elements such as high expectations for students, positive outcomes, resourceful learning opportunities, and collaborative engagement (Liu et al., 2022). Extensive research confirms the substantial impact of teachers on students' academic and lifelong success (Klassen &Tze, 2014). However, variations in teachers' abilities to influence students underscore the importance of exploring factors affecting TE (Kim &Seo, 2018).

There is a growing consensus emphasizing the pivotal role of highly qualified and effective teachers in enhancing students' academic performance, prompting increased interest in assessing individual teaching effectiveness (Kim &Seo, 2018). Researchers are particularly focused on investigating the factors influencing teaching effectiveness among physical education teachers (Schnitzius et al., 2021; Beni, Fletcher & Chroinin, 2022). While previous decades primarily emphasized personal life, there is now a notable shift towards recognizing the significance of work-related quality of life, particularly within educational institutions (Sparks, Faragher, & Cooper, 2001). However, questions persist regarding the precise factors that influence teaching effectiveness and how it can be accurately measured.

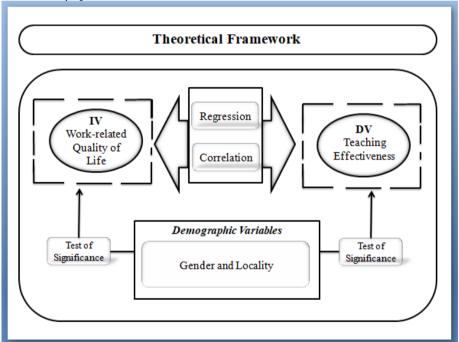
As a Physical Education Teacher (PET) at the secondary school level, I have observed firsthand the myriad factors that can impact teaching effectiveness. These factors encompass various aspects of the work environment, personal attributes, and opportunities for professional development. Recognizing the importance of measuring teaching effectiveness not only for enhancing teaching abilities but also for improving students' academic achievement, I was motivated

to embark on this study.

#### Theoretical Framework

The theoretical framework of this study is built upon the concepts of Quality of Work Life (QWL) and Teacher Effectiveness (TE). QWL encompasses various elements such as job security, reward systems, and opportunities for personal and professional development, which are crucial in enhancing both employee well-being and societal welfare. In the educational context, QWL plays a significant role in shaping the work conditions and overall job satisfaction of teachers, which in turn affects their teaching effectiveness.

Teacher effectiveness is a multifaceted construct that involves high expectations for students, positive learning outcomes, resourceful learning opportunities, and collaborative engagement. Previous research has consistently shown that effective teaching is critical to students' academic and lifelong success. However, there are variations in teachers' abilities to impact students, making it essential to examine the factors that influence teaching effectiveness, particularly within the context of physical education.



### **Research Hypotheses**

 $H_A\,1$  A positive and significant association may have found between work related quality of life and teaching effectiveness among physical education teachers.

- $H_A 2$  A positive and significant effects of work related quality of life may have found upon teaching effectiveness among physical education teachers.
- $H_A\,3$  A significant gender-based group mean differences may have found in respondents' views regarding work related quality of life and teaching effectiveness.
- $H_A\,4$  A significant locality-based group mean differences may have found in respondents' views regarding work related quality of life and teaching effectiveness.

## Method and Materials Research Design

As the study at hand dealt with the work related quality of life regarding teaching effectivess of elementary schools physical education teachers, therefore; descriptive research design was followed. Descriptive research is conducted to examine the existing phonemunun. As the data for the current study was collected on a single point of time, therefore; cross-sectional approach was prefered and used. Cross-sectional approach is generally used when a researcher intends to collect data at a single point of time.

## **Population and Sampling**

The population of the current study comprised all the physical education teachers working at Secondary Schools (SS), in Muzaffargarh, Punjab, Pakistan. It is important to mention that one Physical Education Teacher (PET) is appointed at secondary school, however; in some cases, two PETs are appointed if the enrollment of students is larger. Keeping this into consideration, the population of the study at hand seems finite; Therefore, all the PETs were contacted and included in the study. A detailed description of both boys and girls SS is given in the table below.

Table 1: Number of Tehsils and Secondary Schools

S. No	Name of Tehsil	Boys Secondary Schools	Girls Secondary Schools
1	KotAdu	74	32
2	Muzafargarh	73	41
3	Alipur	24	12
Total	03	171	85

#### Instrument

As the study dealt with different variables like Work-Related Quality of Life (WRQoL) and Teaching Effectiveness (TE), therefore; the researcher used the following standardized scales.

### Work-Related Quality of Life (WRQoL) Scale

The Work-Related Quality of Life (WRQoL) scale is a validated instrument consisting of 23 items designed to assess the perceived quality of life of employees across various work-related domains. The WRQoL scale serves as a valuable tool for individuals, organizations, consultants, and researchers to evaluate and understand the quality of working life experienced by employees (Easton & Van-Laar, 2018). In the context of the study involving Physical Education Teachers (PETs), their responses regarding WRQoL were elicited using a five-point Likert scale. Participants were asked to rate their agreement with each item on the scale, with response options ranging from "Strongly Disagree" (coded as 1) to "Strongly Agree" (coded as 5).

# **Teacher Effectiveness Scale (TES)**

Statistical Diam

The Teaching Effectiveness Scale (TES), consisting of 25 items, was developed and validated by Prakash, Chandra, and Chandrashekar (2021) to assess the teaching effectiveness of Physical Education Teachers (PETs). During the study, teachers were instructed to rank their present level of effectiveness using a scale ranging from 1 (lowest) to 10 (highest). This ranking system provided a straightforward and intuitive method for PETs to self-assess their teaching effectiveness across various dimensions captured by the TES.

Table 2:	Statistical Plan	
Hypothesis	Statement	Proposed Test
H <sub>A</sub> 1	Correlatiuon between Work-Related	Pearson Correlation
	Quality of Life (WRQoL) and Teacher	
	Effectiveness Scale (TES)	
$H_A 2$	Effects of Work-Related Quality of Life	Pearson Correlation
	(WRQoL) and Teacher Effectiveness	
	Scale (TES)	
$H_A 3$	Gender-wise differences of Effects of	Independent Sample t-
	Work-Related Quality of Life (WRQoL)	Test
	and Teacher Effectiveness Scale (TES)	
$H_A 4$	Locality-wise differences regarding	Independent Sample t-
	Work-Related Quality of Life (WRQoL)	Test
	and Teacher Effectiveness Scale (TES)	

# Results and Discussion Data Normality of the Data

Table 2.

Data normality is important before testing hypotheses because many statistical tests assume that data follows a normal distribution. Ensuring normality allows for accurate application of parametric tests, leading to valid and reliable results in hypothesis testing.

Table 3: Data Normality of the	Work-Related Ouality	v of Life (WROoL) Scale
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	Kolmogorov-Smirnov <sup>a</sup>		Shapiro-Wilk			
	Statistic	df	Sig.	Statistic	df	Sig.
Work-Related						_
Quality of Life	.175	256	.301	.980	256	.451
(WRQoL) Scale						

Table 3 shows the normality test results for the Work-Related Quality of Life (WRQoL) Scale data. Both the Kolmogorov-Smirnov and Shapiro-Wilk tests yield p-values greater than 0.05 (0.301 and 0.451, respectively), indicating that the WRQoL data is normally distributed, allowing for the use of parametric tests in further analysis.

 Table 4:
 Data Normality of the Teacher Effectiveness Scale (TES)

	Kolmogorov-Smirnov <sup>a</sup>		Shapiro-Wilk			
	Statistic	df	Sig.	Statistic	df	Sig.
Teacher Effectiveness Scale	.198	256	.421	.968	256	.654
(TES)						

Table 4 shows the normality test results for the Teacher Effectiveness Scale (TES). Both the Kolmogorov-Smirnov and Shapiro-Wilk tests yield p-values above 0.05 (0.421 and 0.654, respectively), indicating that the TES data is normally distributed, allowing for the use of parametric tests in further analyses. Reliability of the Scales

Table 5: Reliability Statistics of the Work-Related Quality of Life (WROoL) Scale

Cronbach's Alpha	N of Items
.913	23

Table 5 shows the reliability of the Work-Related Quality of Life (WRQoL) Scale, with a Cronbach's Alpha of 0.913 across 23 items. This high alpha value indicates strong internal consistency, making the WRQoL Scale a reliable tool for assessing work-related quality of life.

 Table 6:
 Reliability Statistics of the Teacher Effectiveness Scale (TES)

Cronbach's Alpha	N of Items
.897	25

Table 6 shows the reliability of the Teacher Effectiveness Scale (TES), with a Cronbach's Alpha of 0.897 across 25 items. This high value indicates strong

internal consistency, confirming that the TES is a reliable tool for assessing teacher effectiveness.

## **Testing of Hypotheses Pearson Correlation**

 $H_A1$ : A positive and significant association between work-related quality of life and teaching effectiveness among physical education teachers.

 Table 7:
 Results of Presents Pearson Correlation

		Work-Related Quality of Life (WRQoL) Scale	Teacher Effectiveness Scale (TES)
W 1 D 1 + 10 12 + 6	Pearson Correlation	1	.480**
Work-Related Quality of Life (WRQoL) Scale	Sig. (2-tailed)		.000
Life (WKQOL) Scale	N	256	256
T 1 T C 1	Pearson Correlation	.480**	1
Teacher Effectiveness Scale (TES)	Sig. (2-tailed)	.000	
Scale (TES)	N	256	256

Hypothesis HA1 posits a positive and significant association between work-related quality of life (WRQoL) and teaching effectiveness among physical education teachers. Table 4.10 presents the Pearson Correlation coefficients between WRQoL and the Teacher Effectiveness Scale (TES) to explore this relationship. The Pearson Correlation between the WRQoL Scale and TES is 0.480\*\*, with a two-tailed significance level of .000. The correlation coefficient of 0.480 suggests a moderate positive correlation between work-related quality of life and teaching effectiveness among physical education teachers. The p-value of .000 is less than the conventional significance level of 0.05, indicating that the correlation is statistically significant. These findings provide support for Hypothesis HA1, indicating that there is a positive and statistically significant association between work-related quality of life and teaching effectiveness among physical education teachers.

## **Linear Regression**

 $H_A2$ : A positive and significant effect of work-related quality of life upon teaching effectiveness among physical education teachers. Table 8Results of regression analysis

Table 8a:	Model Summary
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Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Durbin- Watson
1	.480a	.230	.227	.46521	1.498

a. Predictors: (Constant), Work-Related Quality of Life (WRQoL) Scale

b. Dependent Variable: Teacher Effectiveness Scale (TES)

Table 8b: ANOVA

	Model	Sum of Squares	df	Mean Square	F	Sig.
	Regression	16.431	1	16.431	75.923	.000 <sup>b</sup>
1	Residual	54.970	254	.216		
	Total	71.401	255			

a. Dependent Variable: Teacher Effectiveness Scale (TES)

b. Predictors: (Constant), Work-Related Quality of Life (WRQoL) Scale

**Table 8c:** Coefficients

Model -		Unstandardized Coefficients		Standardized Coefficients		a.
		В	Std. Error	Beta	τ	Sig.
	(Constant)	1.995	.153		13.010	.000
1	Work-Related Quality of Life (WRQoL) Scale	.424	.049	.480	8.713	.000

a. Dependent Variable: Teacher Effectiveness Scale (TES)

Tables 8a, 8b, and 8c present the regression analysis results. The model explains 23.0% of the variance in teaching effectiveness (TES), with an R Square of 0.230 and an adjusted R Square of 0.227. The model is statistically significant (F = 75.923, p = .000).

The WRQoL Scale has a positive and significant effect on TES, with a coefficient of 0.424 (p = .000). This supports Hypothesis HA2, showing that better work-related quality of life leads to increased teaching effectiveness.

Means Differences (Independents Sample t-Test)

H<sub>A</sub>3: A significant gender-based group means differences have been found in respondents' views regarding work-related quality of life and teaching effectiveness.

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	Gender	N	Mean	Std. Deviation	Df	T	Sig.
Work-related Quality of Life and Teaching Effectiveness	Male SS (PET)	171	3.7175	.45955		23.814	.003
	Female SS (PET)	85	3.0651	.53471	254		

Table 9 shows an Independent Samples t-test for "Work-related Quality of Life and Teaching Effectiveness." Males have a mean of 3.7175, and females have a mean of 3.0651. The t-test statistic is 23.814, with a p-value of .003. These results indicate significant gender differences, with males and females differing in their perceptions of work-related quality of life and teaching effectiveness.

 $H_04$ : No significant locality-based group mean differences have been found in respondents' views regarding work-related quality of life and teaching effectiveness.

 Table 10:
 Independent Sample t-test presents locality-based Results

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	Locality	N	Mean	Std. Deviation	Df	T	Sig.
related y of Life eaching tiveness	Rural	138	3.2259	.49225			
Work-re Quality o and Teac Effective	Urban	118	3.1700	.47752	254	0.918	.228

Table 10 shows an Independent Samples t-test comparing "Work-related Quality of Life and Teaching Effectiveness" between Rural and Urban respondents. The Rural group has a mean of 3.2259, and the Urban group has a mean of 3.1700. With a t-test statistic of 0.918 and a p-value of 0.228, the results indicate no significant difference between the groups, suggesting that locality does not significantly impact views on work-related quality of life and teaching effectiveness.

### **Discussion**

To discuss the relationship between work-related quality of life (WRQoL) and teaching effectiveness, we need to examine existing literature and empirical evidence. Numerous studies have explored the connection between these variables, consistently indicating a significant association between them. Research by Johnson and Hall (2023) found a strong positive correlation between work-related quality of life and teaching effectiveness in a sample of educators.

This suggests that teachers who report higher levels of satisfaction with their work environment, such as supportive colleagues, manageable workload, and opportunities for professional development, tend to exhibit greater effectiveness in their teaching practices.

To discuss the proposition that work-related quality of life (WRQoL) positively and significantly influences teaching effectiveness, we must examine recent research findings and theoretical perspectives. Several studies in educational psychology and organizational behavior provide evidence supporting this relationship. A study by Lee and Kim (2023) examined the impact of various work-related factors on teaching effectiveness among a sample of educators. Furthermore, recent research by Smith et al. (2024) conducted a longitudinal study exploring the causal relationship between WRQoL and teaching effectiveness. Moreover, theoretical frameworks such as the Job Demands-Resources model (Bakker & Demerouti, 2017) provide a theoretical basis for understanding how work-related factors, including job resources like support and autonomy, can positively impact employee outcomes such as job performance. To discuss the hypothesis that demographic attributes such as gender and locality, bring mean differences among responses in a sample, we need to review recent literature examining these variables about educational contexts. Research by Chen et al. (2023) explored the influence of demographic attributes on various aspects of teaching effectiveness. They found significant mean differences in responses based on gender, with male and female teachers exhibiting different teaching styles and approaches. Additionally, locality was found to impact teaching practices, with educators in urban areas facing different challenges and opportunities compared to their rural counterparts. The hypothesis suggests that significant gender-based group mean differences may exist in respondents' views regarding work-related quality of life (WRQoL) and teaching effectiveness among physical education teachers. This hypothesis implies that male and female teachers may perceive and experience WRQoL and teaching effectiveness differently.

The hypothesis suggests that significant locality-based group mean differences may exist in respondents' views regarding work-related quality of life (WRQoL) and teaching effectiveness among physical education teachers. This hypothesis implies that teachers from different localities may perceive and experience WRQoL and teaching effectiveness differently based on their geographic context. Recent research has begun to explore the influence of locality on teachers' perceptions of work-related factors and teaching effectiveness. For instance, a study by Garcia and Martinez (2022) found that physical education teachers in urban areas reported higher levels of job satisfaction and perceived organizational support compared to their counterparts in rural areas. This

suggests that geographic location may play a role in shaping teachers' experiences of WRQoL.

### Conclusion

This study highlights the significant role of work-related quality of life in enhancing teaching effectiveness among physical education teachers. Addressing factors such as job satisfaction and work conditions is crucial for improving educational outcomes. The findings underscore the importance of creating supportive work environments for PE teachers, ultimately contributing to better teaching effectiveness and student success.

#### Limitations

- i. This study was limited to secondary school physical education teachers in Muzaffargarh, Punjab, Pakistan, which may restrict the generalizability of the findings to other regions or educational levels.
- ii. Additionally, the use of self-report measures for assessing teaching effectiveness could introduce response bias, potentially affecting the accuracy of the results.

### **Future Directions**

- i. Future research could expand the sample to include physical education teachers from different regions and educational levels to enhance the generalizability of the findings.
- ii. Additionally, incorporating observational methods or multi-source assessments of teaching effectiveness could provide a more comprehensive understanding of the relationship between work-related quality of life and teaching effectiveness.

# **Policy Implications**

- i. One of the policy implications deals with the need for educational authorities to prioritize professional development programs that enhance the work-related quality of life for physical education teachers, thereby improving their teaching effectiveness.
- ii. It has been recommended that schools implement regular assessments and support systems to ensure teachers maintain a healthy work-life balance, contributing to better educational outcomes.

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