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PREVALENCE OF CORONA VIRAL INFECTION (COVID-19) IN RAWALPINDI ISLAMABAD

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ABSTRACT

The Abstract of the study provides a concise overview of the comprehensive analysis conducted on the impact of COVID-19 in the Rawalpindi-Islamabad region. Examining a diverse

demographic of 100 participants, the study delves into the prevalence of symptoms, adoption of

preventive measures, healthcare utilization, and perceptions of government responses. Findings

reveal distinct patterns in age, gender, and occupation, shedding light on the pandemic's

multifaceted influence. By presenting statistical figures alongside qualitative insights, this

research contributes to a comprehensive understanding of the pandemic's implications. The

results advocate for targeted interventions, equitable healthcare access, and strategic

communication strategies to enhance community well-being.

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INTRODUCTION

The COVID-19 pandemic, caused by the novel coronavirus SARS-CoV-2, has reshaped the

global landscape, posing unprecedented challenges to societies, economies, and healthcare

systems. This study focuses on understanding the pandemic's impact in the Rawalpindi-

Islamabad region of Pakistan, delving into its multifaceted implications across demographics,

symptoms, preventive measures, healthcare utilization, and government responses.

Emerging in late 2019, the rapid transmission of COVID-19 led to its declaration as a global

pandemic by the World Health Organization. As the virus spread across borders, it prompted a

collective effort to contain its transmission and mitigate its effects. In the Rawalpindi-Islamabad

region, characterized by its urban settings and diverse population, the pandemic's influence was

multifarious, encompassing health, social, and economic dimensions.

This study holds significance as it provides insights into the local impact of the pandemic,

contributing to the global understanding of COVID-19's effects while offering region-specific

insights. By addressing key research objectives, including assessing demographic profiles,

examining symptom prevalence, analyzing preventive measures, investigating healthcare

utilization, and gauging government responses, this study contributes to informed decision-

making and future pandemic preparedness.

The rationale for this study lies in the need to comprehend the pandemic's effects within specific

contexts. While global research provides a foundation, localized insights are crucial for effective

response strategies. The Rawalpindi-Islamabad region offers a unique context to explore how the

pandemic intersects with demographics, symptoms, preventive behaviors, healthcare access, and

governmental actions. This understanding is essential for shaping targeted interventions and

policy recommendations.

Informed by a multidisciplinary theoretical framework, this study draws upon epidemiology,

public health, sociology, and healthcare management. By integrating these perspectives, we aim

to capture a comprehensive view of the pandemic's impact, recognizing its interconnected

dimensions and implications.

The structure of this thesis is organized to systematically address the research objectives and

contribute to a comprehensive understanding of the pandemic's impact. Chapter 2 reviews the

relevant literature on COVID-19, exploring its global epidemiological trends, risk factors, public

health interventions, and socioeconomic determinants. Chapter 3 outlines the research

methodology, detailing the approach, design, population, sample size, data collection techniques,

and ethical considerations.

Chapter 4 presents the results and analysis, providing insights into demographic information,

COVID-19 symptoms, preventive behaviors, healthcare utilization, and government responses.

Chapter 5 engages in a comprehensive discussion of these findings, interpreting their

implications within the context of the Rawalpindi-Islamabad region and offering

recommendations for policy, interventions, and future research.

In conclusion, this study seeks to unravel the intricate tapestry of the COVID-19 pandemic's

impact on the Rawalpindi-Islamabad region. By shedding light on various dimensions, it aims to

contribute to our understanding of pandemic management, public health strategies, and

community resilience. Ultimately, this research serves as a stepping stone for informed decision-

making and lays the groundwork for building a more resilient and prepared society in the face of

future challenges.

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METHADOLOGY

This chapter outlines the methodological approach employed in the study to investigate the

impact of the COVID-19 pandemic on the Rawalpindi-Islamabad region. The research

methodology encompasses the research approach, purpose, design, targeted population, sample

size, data collection techniques, inclusion and exclusion criteria, and ethical considerations.

Research Approach: A quantitative descriptive research approach was adopted to gather

empirical data that quantifies the various aspects of the pandemic's impact. This approach

facilitated the collection of structured data from a diverse sample, enabling a comprehensive

analysis of demographic characteristics, symptoms, preventive behaviors, healthcare utilization,

and government responses.

Research Purpose: The purpose of this study was to comprehensively explore and analyze the

multifaceted impact of the COVID-19 pandemic on the Rawalpindi-Islamabad region. This

included understanding demographic variations, symptom prevalence, adherence to preventive

measures, patterns of healthcare utilization, and perceptions of government responses.

Research Design: The research design employed was a cross-sectional survey. A structured

questionnaire was designed, consisting of multiple-choice and Likert-scale questions. The survey

was administered through online platforms, ensuring accessibility and convenience for

respondents while adhering to physical distancing measures necessitated by the pandemic.

Targeted Population: The study focused on individuals residing in the Rawalpindi-Islamabad

region of Pakistan, encompassing a diverse urban population. The inclusion criteria comprised

individuals aged 18 and above who were willing to participate voluntarily. Participants from

various demographic backgrounds, including gender, age, occupation, education, and residential

area, were included to capture a representative sample.

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Sample Size: A sample size of 100 participants was determined based on feasibility and resource

constraints. This size provided a balance between obtaining sufficient data for analysis while

maintaining practicality in data collection and processing.

Data Collection Techniques: Data collection was primarily conducted through an online

questionnaire distributed via social media platforms and email. The questionnaire consisted of

five sets of questions, covering demographic information, COVID-19 symptoms, preventive

measures, healthcare utilization, and government responses. The survey employed a combination

of closed-ended questions and Likert-scale items to capture both categorical and ordinal data.

Inclusion and Exclusion Criteria: Inclusion criteria encompassed individuals aged 18 and

above, residing in the Rawalpindi-Islamabad region, and willing to participate voluntarily.

Exclusion criteria included individuals below 18 years of age and those not residing in the

specified region.

Ethical Considerations: Ethical approval was obtained from the institutional review board to

ensure the protection of participants' rights and confidentiality. Informed consent was acquired

from each participant before their engagement in the study. Data collection and storage adhered

to data protection guidelines to ensure the security and privacy of participants' information.

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RESULTS

This chapter presents the findings of the study, which aimed to comprehensively examine the

impact of the COVID-19 pandemic on the Rawalpindi-Islamabad region. The analysis is

organized into thematic sections, including demographic information, COVID-19 symptoms,

preventive measures, healthcare utilization, and perceptions of government responses.

Demographic Information: The demographic analysis revealed a diverse sample of participants

from different genders, age groups, occupations, educational levels, and residential areas. The

majority of respondents were **females** (64%), with a balanced representation across age groups.

Students constituted the largest occupational group (34%), and participants with bachelor's

degrees (35%) were most prevalent. Rawalpindi and Islamabad were the main residential areas,

demonstrating an even distribution.

COVID-19 Symptoms: The prevalence of COVID-19 symptoms varied among respondents.

Fever and cough were the most commonly reported symptoms, followed by fatigue and muscle

aches. Notably, a significant proportion of participants (36%) reported experiencing loss of taste

or smell, a hallmark symptom of COVID-19. Additionally, 49% of respondents knew family

members or friends who had COVID-19 symptoms.

Preventive Measures: The study explored preventive behaviors adopted by respondents to

mitigate COVID-19 transmission. Wearing masks emerged as the most widely practiced

preventive measure, followed by hand hygiene and social distancing. While the majority of

participants reported frequent mask usage, a significant portion (28%) indicated rarely or never

wearing masks.

Healthcare Utilization: Approximately 56% of participants had visited healthcare facilities

during the pandemic for reasons other than COVID-19. Routine check-ups and chronic condition

management were common reasons for healthcare visits. Challenges in accessing healthcare

were encountered by 42% of respondents, primarily due to limited appointment availability and fear of COVID-19 exposure.

Perceptions of Government Response: Participants' perceptions of the government's response to the pandemic were diverse. While a significant proportion perceived the response as moderately effective (48%), there was a notable divide between those who found it highly effective (30%) and those who considered it ineffective (17%). Awareness of government guidelines was moderately informed among respondents, with 62% feeling knowledgeable.

These results shed light on the complex and multifaceted impact of the COVID-19 pandemic on the Rawalpindi-Islamabad region. The findings reflect the diverse experiences of individuals from various demographic backgrounds and highlight the prevalence of COVID-19 symptoms, the uptake of preventive measures, healthcare utilization patterns, and perceptions of government responses. The subsequent chapter will engage in a comprehensive discussion of these findings, synthesizing them with existing literature and providing valuable insights for public health interventions and policy decisions.

DISCUSSION

The discussion chapter delves into the nuanced interpretation of the study's findings, providing a comprehensive analysis of the impact of the COVID-19 pandemic on the Rawalpindi-Islamabad region. This section engages with the results obtained from the demographic analysis, COVID-19 symptoms, preventive measures, healthcare utilization, and perceptions of government responses, offering insights that contribute to a deeper understanding of the pandemic's effects on the local population.

Demographic Analysis: The demographic composition of the study sample is reflective of the region's diverse population. The relatively balanced representation of genders, age groups, occupations, educational levels, and residential areas provides a holistic snapshot of the

community's experiences. The prominence of female respondents in the sample is noteworthy and may reflect their active engagement in healthcare-seeking behaviors and preventive

practices. Such demographic insights underscore the importance of tailored interventions that

consider the specific needs and challenges faced by different segments of the population.

COVID-19 Symptoms: The prevalence of COVID-19 symptoms, particularly loss of taste or

smell, highlights the potential impact of the virus on individuals. The high proportion of

participants experiencing these symptoms suggests a significant burden of COVID-19 cases in

the region. The study's findings emphasize the need for heightened awareness and timely testing,

especially considering the potential for asymptomatic transmission. Further exploration of the

severity and duration of symptoms could provide valuable information for healthcare providers

and policymakers.

Preventive Measures: The widespread adoption of preventive measures, including mask-

wearing, hand hygiene, and social distancing, reflects a commendable effort by the community to

curb the spread of the virus. However, the finding that a portion of respondents reported

infrequent mask usage raises concerns about the effectiveness of communication strategies and

underscores the importance of targeted public health campaigns. The study highlights an

opportunity for authorities to reinforce the importance of consistent preventive behaviors and

address any barriers to their implementation.

Healthcare Utilization: The study's insights into healthcare utilization patterns during the

pandemic shed light on both successful access to care and existing challenges. While a

substantial proportion of participants sought healthcare services for various reasons, including

routine check-ups and chronic condition management, the encountered challenges, such as

limited appointment availability and fear of COVID-19 exposure, indicate areas for improvement

in healthcare delivery. Efforts to mitigate these barriers should be prioritized to ensure equitable access to healthcare services.

Perceptions of Government Response: The diverse range of perceptions regarding the effectiveness of the government's response underscores the complexity of public sentiment during times of crisis. The division between those who perceive the response as highly effective, moderately effective, or ineffective highlights the need for clear and transparent communication. Strengthening communication channels and building trust can enhance public adherence to guidelines and facilitate a more coordinated response to future health crises.

CONCLUSION

In conclusion, this study sheds light on the multifaceted impact of the COVID-19 pandemic on the Rawalpindi-Islamabad population. Through a comprehensive exploration of demographic information, COVID-19 symptoms, preventive measures, healthcare utilization, and perceptions of government responses, we gain valuable insights into the challenges and dynamics of this unprecedented crisis. The findings emphasize the importance of tailored interventions that address specific demographic characteristics and promote consistent preventive practices. The study underscores the significance of accessible and equitable healthcare services, particularly during times of crisis. Moreover, the diverse range of perceptions regarding government responses highlights the need for clear communication and proactive engagement with the community.

As we move forward, these insights serve as a foundation for informed decision-making and strategic planning. By addressing the unique needs and concerns of the Rawalpindi-Islamabad population, we can better navigate the current pandemic and prepare for future public health

challenges. This study contributes to the collective efforts aimed at safeguarding the well-being of our community and building a resilient future.

