



Research Article

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# A Socio-Psychological Study on the Intricacy Affiliated with the Corona Infections in KSA

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## Abstract

The major objective of this sociopsychological study was intended to analyse the intricacy experienced among the population in the KSA because of the corona infections. This study was performed for a time of one month from 12.01.2022 to 11.02.2022 and the sample of 2500 volunteers were procured. The significant difference of P-value was achieved by deploying the Person Chi-Square test for all the surveys to break down the investigation of appraisal. This cross-section assessment study was a little endeavor in the preventive medicine. Thus, this study indicates a pleasant report that though the local neighborhood areas encountered an adaptable of entanglements due to corona virus diseases intricacy yet were handled well with the essential measures by the medical care laborers administered by the responsive authorities of the public authority.

**Keywords:** Social; Psychology; Cross Section Study; Covid-19; Intricacy; Complications; Pandemic; Corona Infections

## Introduction

The corona pandemic outbreak brought a huge devastating effect to the mankind by bringing the socio-economic life to stand still affecting the human lives around the world and can be considered as the greatest disaster of the century [1,2]. The corona infections caused a serious threat to the human's health resulting in more mortality rates among the population. The corona infections which impacted different people in various ways [1-3]. The most people who were tainted may have encountered delicate to gentle

affliction and recover without hospitalization [4]. The shortness of breath prompting the extreme pneumonia because of the infection had extreme danger and the hospitalization becomes obligatory for such people to seek the suitable recommended therapy [1,2,4]. The WHO prompts people to guarantee themselves as well as others around you by knowing current real factors to stay away from expected risk and heed direction given by your local prosperity authority. Though the covid 19 infections causes the pneumonia disease causing inability to breath which leads to fatality in serious

illness if untreated properly on time, there were other intricacy as well associated with the onset of this corona infections even after recovery [4,5].

There were many serious intricacies related to psychological, cardiac, neurological respiratory and other diseases experienced among the population due to the corona infections. Thus, this study was conducted to assess the intricacy experienced by the population in the KSA due to the covid-19 infections [4-6]. This study was performed from 12.01.2022 to 11.02.2022 and a sample of 2500 participants were taken for the assessment through a very well-organized web-based study questionnaires. The data was accumulated as overall around arranged unequivocal surveys associated with the unpredictability of corona close by other related data associated with the bioinformatics of the individual, etc. The study was led in both English and Arabic languages [4-7]. This cross-sectional review study was led by mixing both subjective and quantitative techniques for information assortment protocol. The gathered information was investigated by the Microsoft Excel and SPSS. The values were introduced as numbers (%). IBM SPSS Statistics for Windows, rendition 23 was used for investigation (IBM SPSS, IBM Corp., Armonk, N.Y., USA). Factual examinations were made by Pearson Chi-Square test. The information was huge if P-values were <0.05 4,6,7. The intricacy experienced by the sample of participants were assessed and computed in a well ethical cross sectional study method.

## Methodology

This study was performed from 12.01.2022 to 11.02.2022 and a sample of 2500 participants were taken for the review through very well-organized web-based overview questionnaires [4,6]. The data was accumulated by and large around arranged unequivocal polls associated with the complexity related because of the corona diseases experienced by the metropolitan populace in the KSA

alongside the other related data associated with the bioinformatics of the individual, etc. The study was directed both in English and Arabic language [5]. This cross-sectional review study was directed by mixing both subjective and quantitative techniques for information assortment protocol. The gathered information was dissected by the Microsoft Excel and SPSS. The values were introduced as numbers (%). IBM SPSS Statistics for Windows, rendition 23 was used for examination (IBM SPSS, IBM Corp, Armonk NY, USA). Factual correlations were made by Pearson Chi-Square test. The information was critical if P-values were <0.05. The intricacy experienced by the sample of participants were assessed and computed in a well ethical cross sectional study method [4,6,7].

## Result & Discussion

The objective populace for the example assortment for this study was 2500 examples yet gotten overpowering reactions yet we gathered around 2500 examples takes part in this overview according to the strategy. The gathered information was very much arranged in the Table 1 and the suitable reactions were categorify isolated and portrayed as very much blended outline (Figures 1-8) for better comprehension about the clarification of the review [5,7,8]. This study was led among the metropolitan populace of the various locales of the KSA which includes Riyadh, Makkah, Madina, Dammam territory urban areas and other metropolitan region of the kingdom. The review showed Makkah and Riyadh members were in huge numbers with the members of Makkah at 25%, Riyadh at 30%, Madina were 10%, Dammam was 18% and other provincial metropolitan regions were 17%. The conveyance of the members was portrayed as diagram (Figure 1) emblematically with the P-value got by deploying out the Person Chi-Square test was <0.06 for the Makkah and Riyadh when contrasted with different districts which showed the huge contrasts in the members in the locale considered [7,9,10].

**Table 1:** Intricacy Affiliated with the Corona Infections in the KSA.

Questionnaires	Response Percentage	P-Value Significance
<b>Distribution of Region</b>		<0.06
Riyadh	30	
Makkah	25	
Madina	10	
Dammam	18	
Others	17	
<b>Age groups</b>		<0.004
12 to 18	8	
19-24 years	20	
25 to 40 years	40	
41-60 years	26	
More than 60	6	

<b>Gender</b>		<b>&lt;0.009</b>
Male	28	
Female	72	
<b>Nationality</b>		<b>&lt;0.07</b>
Saudi	95	
Non-Saudi	5	
<b>Language</b>		<b>&lt;0.812</b>
Arabic	97	
English	3	
<b>Education levels</b>		<b>&lt;0.007</b>
Undergraduate	37	
Graduate	42	
Postgraduate	15	
Others	3	
<b>Did you get infected with corona?</b>		<b>&lt;0.04</b>
Yes	62	
No	38	
<b>Did you get psychological intricacy after infected with corona?</b>		<b>&lt;0.518</b>
Yes	57	
No	43	
<b>When did you recover from corona infection?</b>		<b>&lt;0.315</b>
Less than 3 months	44	
3-9 months	34	
More than 9 months	22	
<b>When did psychological intricacy began after recovering from corona infection?</b>		<b>&lt;0.133</b>
Less than 3 months	77	
3-9 months	9	
More than 9 months	14	
<b>Did you suffer from anxiety intricacy?</b>		<b>&lt;0.346</b>
Yes	59	
No	41	
<b>What was the level of anxiety intricacy experienced?</b>		<b>&lt;0.001</b>
Low	15	
Medium	56	
High	16	
Severe	13	
<b>Did you suffer from stress intricacy?</b>		<b>&lt;0.202</b>
Yes	39	
No	61	
<b>What was the level of stress intricacy experienced</b>		<b>&lt;0.003</b>
Low	12	
Medium	18	
High	37	
Severe	33	

<b>Did you suffer from depression intricacy?</b>		<b>&lt;0.09</b>
Yes	42	
No	58	
<b>What was the level of depression intricacy experienced</b>		<b>&lt;0.07</b>
Low	6	
Medium	16	
High	21	
Severe	57	
<b>Did you Suffered from chronic health intricacy before corona infection?</b>		<b>&lt;0.002</b>
Yes	32	
No	68	
<b>Do you take any medications?</b>		<b>&lt;0.003</b>
Yes	55	
No	45	
<b>What is the chronic health intricacy suffered before corona infection?</b>		<b>&lt;0.325</b>
Diabetes	39	
Respiratory Disease	21	
Cardiac Disease	14	
Neurological issues	17	
Immunodeficiency disease	3	
Gastrointestinal disease	6	
<b>Did you Suffered from any intricacy after corona infection?</b>		
yes	72	<b>&lt;0.05</b>
No	28	
<b>What is the intricacy suffered after recovery from corona infection?</b>		<b>&lt;0.28</b>
Diabetes	41	
Respiratory Disease	30	
Cardiac Disease	9	
Neurological issues	10	
Immunodeficiency disease	1	
Gastrointestinal disease	9	
<b>“What will be the impact of corona virus infection on public health in general wellbeing on a scale of 1 to 10”.</b>		<b>&lt;0.38</b>
1	2	
2	3	
3	6	
4	5	
5	16	
6	8	
7	14	
8	15	
9	7	
10	24	

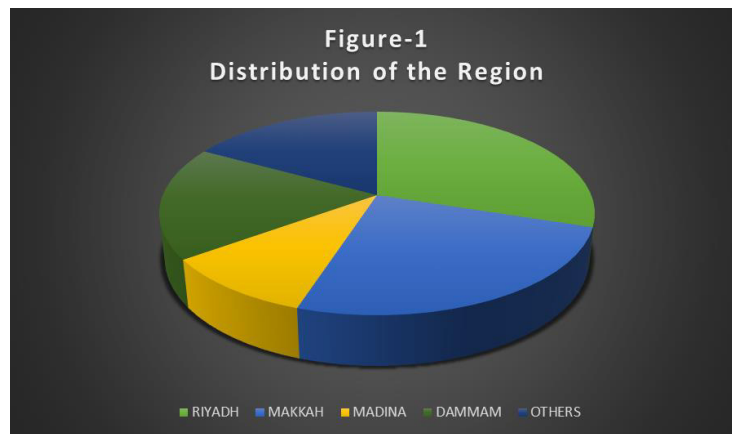


Figure 1: Distribution of the region.

The general bio-information concentrate on surveys were coordinated considering nationality, age group, gender, language, and education which were depicted as outline (Figure 2) considering the individuals. An enormous part of the individuals were Saudi nationals with 95% to the 5% non-Saudi individuals with a sensible colossal difference of <0.07 P-value was gained by playing out the Person Chi-Square test the most that checked out the review gathering mature enough 25-40 years which were 40%. with 26% in the age social affair of 41-60 and 20% were between 19-24 however 8% were between 12-18 years old while 6% of individuals were north of 60 years old independently. The refined enormous qualification to the extent that the P-value got by

playing out the Person Chi-Square test was <0.004. As to direction scattering gender which was around 72% were female individuals and 28%. were male individuals with the P-value got by playing out the Person Chi-Square test was <0.009. There was an obvious colossal difference in the P-value got by playing out the Person Chi-Square test which was <0.812 concerning the language spread of the individuals with 97% being Arabic and simply 3% being English individuals. The allocation of tutoring level showed that the gigantic social affair of individuals was graduates with 42%. Followed by understudies with 37%, postgraduates with 15% and others with 3% with the P-value got by playing out the Person Chi-Square test was <0.007 [6,11,12].

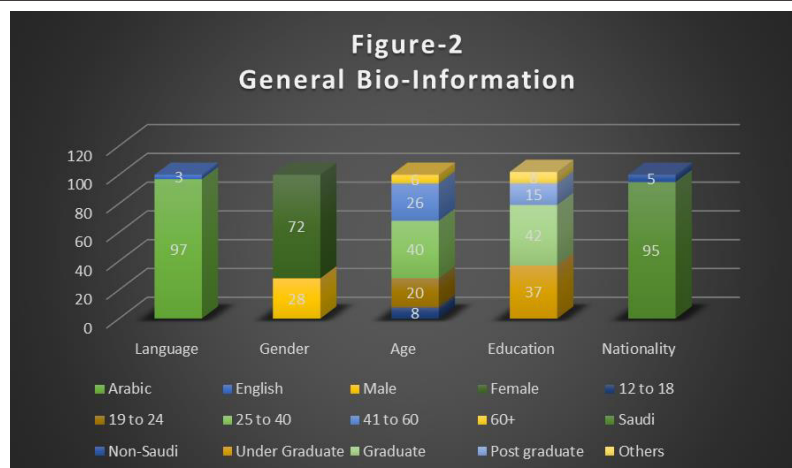


Figure 2: General Bio-information.

The arrangement of the public based improved on Yes or No surveys about the complexity experienced due to of Coronavirus diseases were a decent planner and portrayed as the diagram (Figure 3) considering the level of reaction received. Regarding the poll “Did you get infected with covid-19”, the reaction was 62% of members addressed Yes while 38% addressed No with a huge

contrast of <0.04 P-value got by playing out the Person Chi-Square test. The P-value of <0.518 was gotten by playing out the Person Chi-Square test for the poll “Did you get psychological intricacy after infected with corona” which got the reaction pace of 57% addressed Yes while 43% addressed No. The reaction for the survey “Did you suffered from anxiety intricacy”, the reaction replies of

59% for Yes with 41% for No with the tremendous contrast of <0.346 P-value got by playing out the Person Chi-Square test for the poll. The following poll in this classification was about “Did you

suffered from stress intricacy” for which the reaction reply for Yes was 39% while No was 61% and with the tremendous distinction of <0.202 P-value acquired by playing out the Person Chi-Square test.

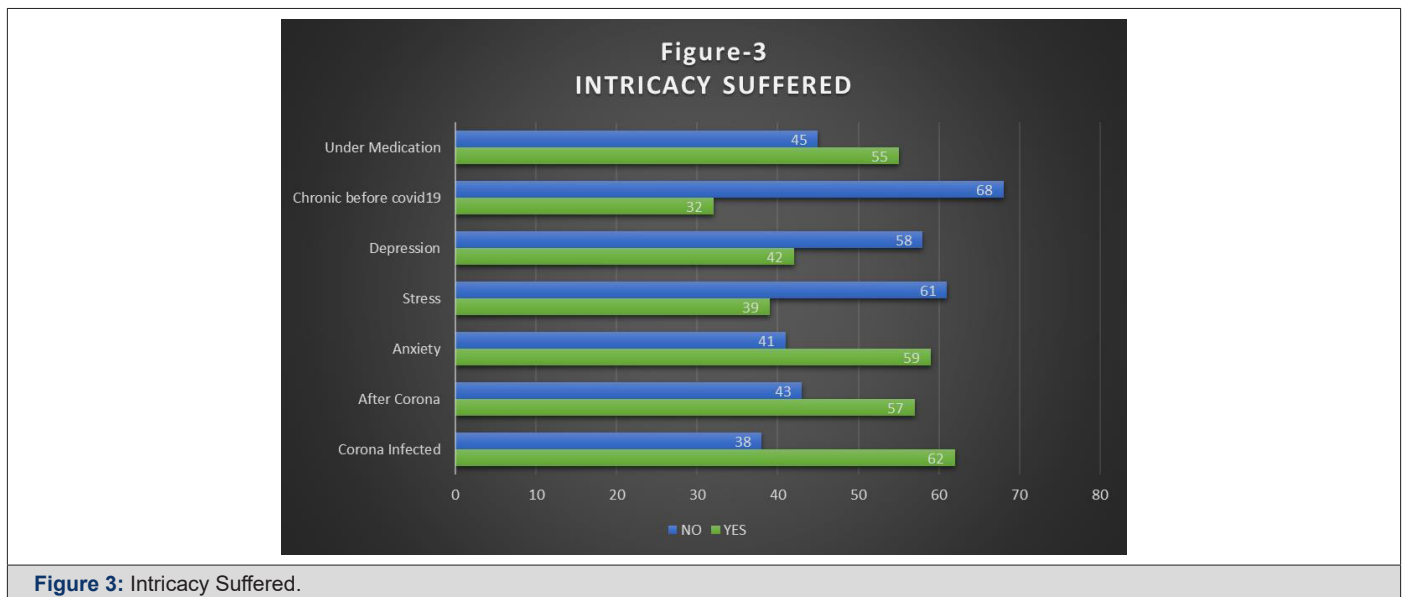


Figure 3: Intricacy Suffered.

The following poll of this classification was “Did you suffered from depression intricacy” for which the massive distinction of P-value got by playing out the Person Chi-Square test for the survey was <0.09 with the members noting Yes with 42% while No was 58% [6,13,14]. The second last poll of this class was “Did you suffered from chronic health intricacy before corona infections” for which the tremendous distinction of P-value got by playing out the Person Chi-Square test for the survey was <0.002 with greater part of the members addressed No with 68% while yes was 32% responses respectively. The continuation to the past poll was “Did you take any medications” for which the reaction pace of 55% was accomplished for yes while 45% for No with the tremendous contrast of P-value acquired by playing out the Person Chi-Square test for the poll was <0.003. The last significant survey in this classification of survey was regarding “Did you suffered from chronic health intricacy after corona infections” for which a huge 72% addressed Yes while 28% addressed No with the massive distinction of P-esteem got by playing out the Person Chi-Square test for the survey was <0.05 [4,15,16].

The following classification with two or three questionnaires were planned explicitly founded on the period for the recuperation from the crown contaminations and the beginning of the multifaceted design after the recuperation towards the objective populace which were introduced in the diagram (Figure 4) in view of the level of reactions accomplished for each. The response for the main survey of this classification depended on the poll “When did you recover from corona infection” for which reply for the

choice Less than 90 days was 44% while for 3-9 months was 34% and more than 9 months was 22% with the massive distinction of P-value acquired by playing out the Person Chi-Square test for the poll was <0.315. The next survey of this class was “When did intricacy began after recovering from corona infection” for which the huge contrast of P-value acquired by playing out the Person Chi-Square test for the survey was <0.133 with greater part of the members dealt with serious consequences regarding the choice Less than 90 days of walloping 77% while for 3-9 months was 09% and more than 9 months was 14% respectively [4,17].

A bunch of all around planned polls were outlined to concentrate on the classification of the complexity experienced post Coronavirus disease recuperation and the level of the outcomes were portrayed in the diagram Figure-5. The outlined survey toward the objective populace in regards to “What was the level of the anxiety intricacy experienced” for which the reaction for the medium was 56% which outperformed other multifaceted nature because of its consistency related with greater part of the illnesses. Different reactions were 16% for high while low was 15% and for severe reaction got was at 13%. with the P-value acquired by playing out the Person Chi-Square test was <0.003 which was clear tremendous contrast. The following outlined survey towards the objective populace with respect to “What was the stress intricacy experienced” for which the reaction for the high was 37% which outperformed other unpredictability. Different reactions were 33% for the severe while medium was at 18% and for low the reaction got was 12%. with the P-value acquired by playing out the Person Chi-Square test

was <0.07 which was tremendous distinction. The last outlined survey towards the objective populace regarding “What was the level of depression intricacy experienced” for which the reaction for the severe was 57% which outperformed other unpredictability.

Different reactions were 21% for the high while medium was 16% and for low reaction the got was 06%. with the P-value acquired by playing out the Person Chi-Square test was <0.001 which was a gentle contrast [3,5,18].

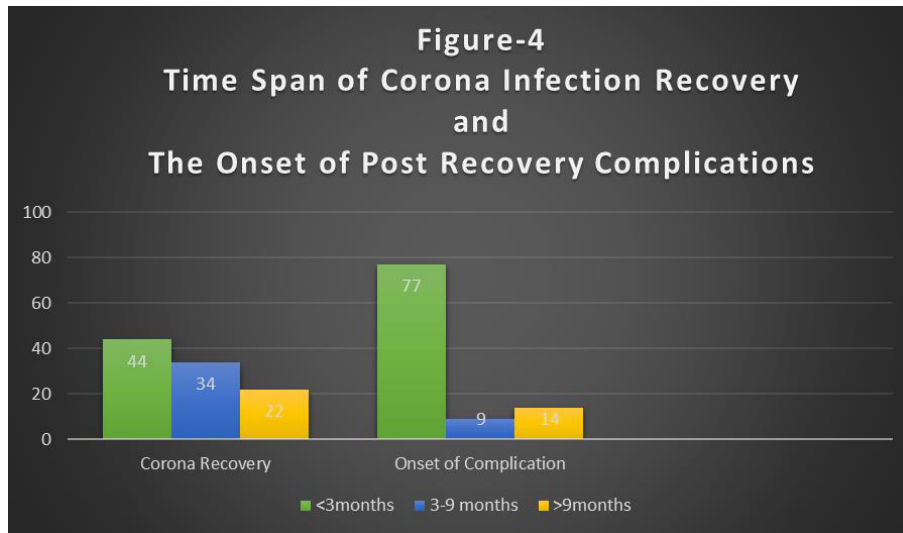


Figure 4: Time span of corona infection recovery and the onset of post recovery complications.

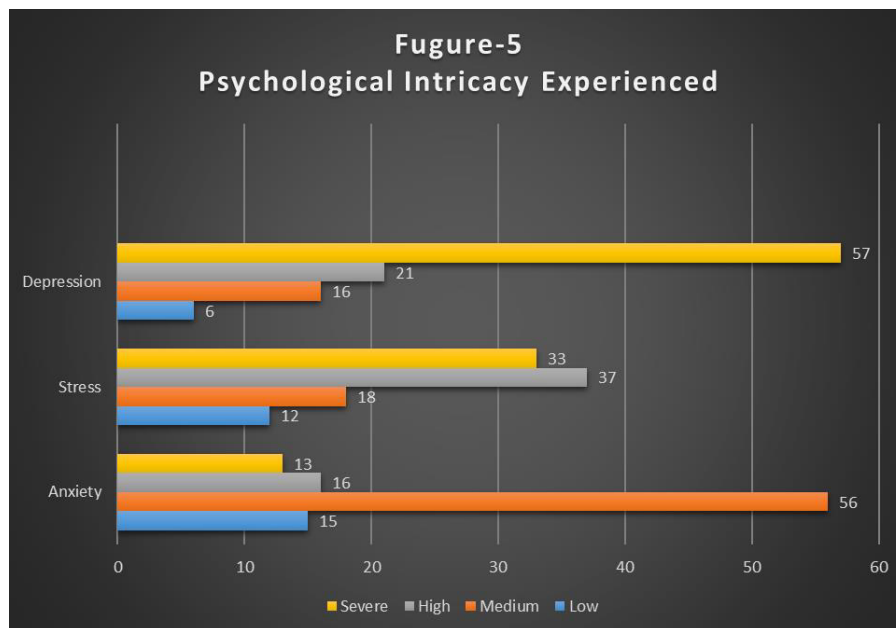


Figure 5: Psychological intricacy experienced.

A few overviews were illustrated to focus on the class about the pre and post corona infection’s consistent complex nature and the level of the results depicted in the charts (Figures 6 & 7). The first framed survey towards the objective people was “What are the chronic health intricacy suffered before corona infection” for which diabetes was 39% which outperformed different reactions because

of its ubiquity related with larger part of the diseases. Different reactions were 21% for respiratory infection while heart got 14% reaction with the neurological issues got 17% and different reactions for immunodeficiency and gastro digestive illnesses got simple 3% and 6% separately. The P-value got by playing out the Person Chi-Square test was <0.325 which was clear tremendous distinction.

The other outlined poll towards the objective populace was “What are the health intricacy suffered after recovering corona infection” for which the reaction was practically indistinguishable from the past questionnaires with minor contrast with reaction for diabetes was 41% which outperformed different reactions because of its

fame related with greater part of the diseases. Different reactions were 30% for respiratory sickness while heart got 9% reaction with the neurological issues got 10% and different reactions for immunodeficiency and gastro gastrointestinal illnesses got simple 1% and 9% separately.

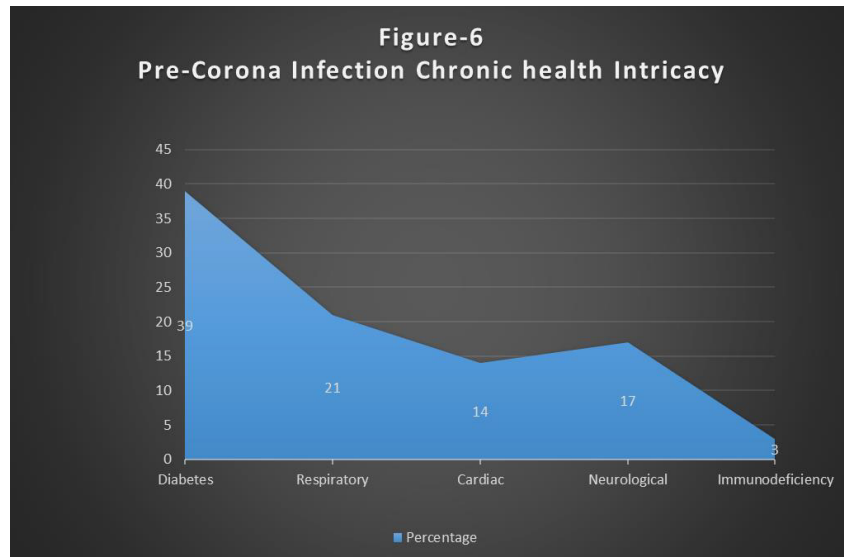


Figure 6: Pre-Corona infection chronic health intricacy.

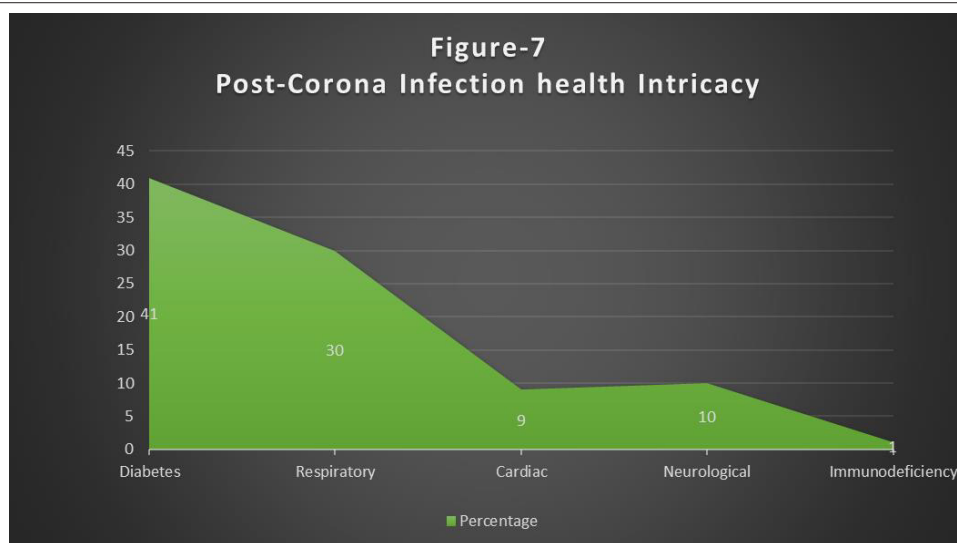
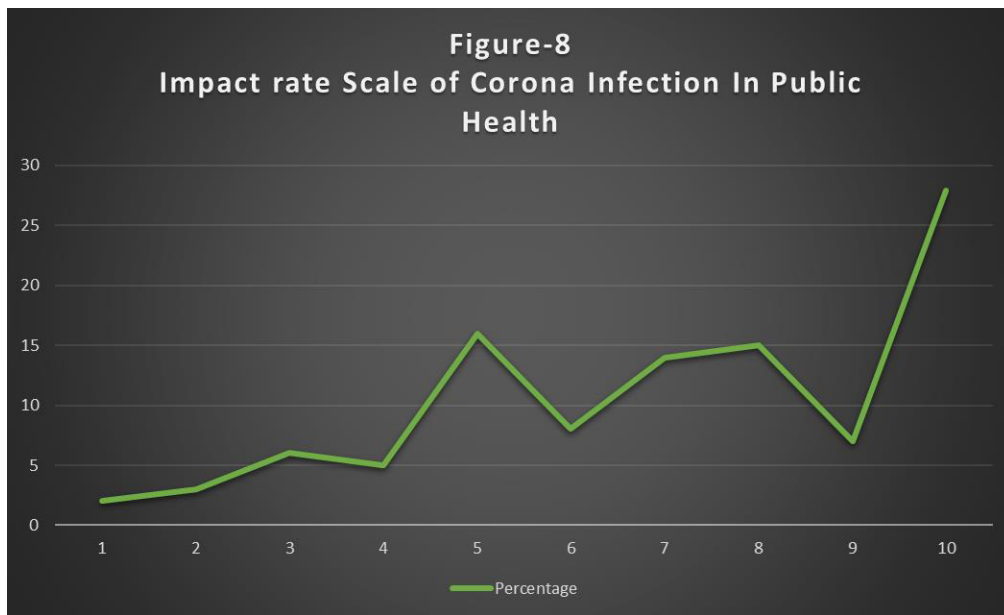


Figure 7: Post-Corona infection health intricacy.

The P-esteem got by playing out the Person Chi-Square test was <0.28 which was clear massive distinction [4,19]. The last survey of this cross-sectional review was explicitly intended to concentrate on the effect of the Corona virus infection in general wellbeing which was dissected on a scale rating 1 to 10 and the reaction rate was portrayed as diagram (Figure 8). This poll was decisively positioned towards the finish of the cross-sectional overview to make mindfulness among the objective populace with respect to the attention to the objective populace to grasping the mental state of the members towards the beginning of the pandemic condition.

The poll planned was “What will be the impact of corona virus infection on public health in general wellbeing on a scale of 1 to 10”. The procured reactions for this survey were most of the members felt the impact pace of 10 with 2% while the impact pace of 5,7,8 got practically similar rate reactions of moderate 16%, 14% and 15% respectively. The simple level of reactions was gotten for the other impact rate scale of 1,2,3,4,6 and 9 with the reaction rates of 2%, 3%, 6%, 5%, 8% and 7% respectively. The huge contrast of P-value acquired by playing out the Person Chi-Square test for the poll significant difference was <0.038 [4,6,7].





**Figure 8:** Impact rate scale of corona infection in public health.

## Conclusion

In this cross-area evaluation study, the got reactions acquired from the very much planned polls with respect to the wellbeing unpredictability experienced because of the corona contaminations during the pandemic circumstance among the number of inhabitants in the KSA [1,3,19]. Overpowering good reactions were gotten from the objective populace and the information was restricted to the arranged 2500 members for the review was obtained. The gathered information was all around arranged in the Table 1 and portrayed as outline figures 1 to 10 individually [8,9]. The tremendous distinction in P-value was gotten by playing out the Person Chi-Square test for every one of the surveys to investigate the investigation of evaluation. This led study was well good and more such examinations should be led to evaluate the socio-mental elements of the local area and to help the significant endeavors taken by the specialists which obviously propose the most uplifting realities. This study was a little endeavor for leading such significant investigations in preventive medication [5,7,19]. Subsequently, this study demonstrates the by and large good report that the wellbeing specialists were completely ready and handled the corona pandemic with the amazing preventive measure methodology to serve the local area despite gigantic difficulties experienced.

## Conflict of Interest

The authors declare no competing interests.

## Consent for Publication

All authors allow the publication of the paper.

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