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3 **Stress-related growth of HIV/AIDS patients: role of religion and self-**  
4 **esteem in mitigating perceived discrimination**

5

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10

11 **Abstract**

12 **Objectives:** Objectives of present research were to i) examine association between  
13 levels of religiosity, self-esteem, perceived discrimination and stress related growth  
14 among HIV/AIDS Patients and ii) find out the mediating effect of self-esteem on  
15 perceived discrimination and stress related growth among HIV/AIDS Patients.

16 **Methods:** A cross sectional study was conducted on respondents that were registered in  
17 VCCT (Voluntary Confidential Counseling & testing) center at Civil Hospital of Jalal  
18 Pur Jattan, Gujrat. Total sample of 247 patients was selected on the basis of two stage  
19 stratified simple random sampling technique. After taking verbal consent from  
20 respondents, data was collected from HIV/AIDS patients by using a structured  
21 questionnaire. Analysis was performed by using SPSS version 21.

22 **Results:** Results of descriptive analysis showed that majority of respondents belonged  
23 to age group 29-37 (39.5%). Educational attainment of majority of the respondents was  
24 6-11 years (38.3%), whereas, 27.4% of the respondents had monthly household income  
25 between Rs.10001-20000.

26 Results pertaining to correlation in brief could be mentioned here.

27 **Conclusion:** Results of correlation and regression analysis showed that level of  
28 religiosity and self-esteem had significant effects in reducing perceived discrimination

29 among HIV/AIDS patients. The reduced perceived discrimination further assisted in  
30 improving the stress related growth among respondents. Based on the findings, it is  
31 suggested that special programs for accelerating stress related growth among HIV/AIDS  
32 patients by enhancing their self-esteem might be arranged. Most importantly, this issue  
33 could be raised in religious sessions for discussion in order to remove the related stigma.  
34 This would be helpful for HIV/AIDS patients to cope with the disease.

35 **Keywords:** Religiosity, Self-esteem, Discrimination, Stress Related Growth,  
36 HIV/AIDS.

37

### 38 **Introduction**

39 HIV is not only recognized as a medical issue rather it is increasingly becoming a social  
40 issue as well. People living with HIV/AIDS found to be subject to discrimination and  
41 stigmatization by their family, communities and colleagues. This discrimination may  
42 affect well-being of HIV/AIDS victims and may discourage them from actively  
43 participating in various social affairs and put them in stressful situation. Researchers  
44 have investigated that stigmatized people feel risk of being a target of prejudice or  
45 discrimination which significantly affected their physical and emotional health<sup>1</sup>. Further  
46 it has been reported that facing the discrimination is related to various adverse mental  
47 health consequences like experience of depression, worry, feeling of pain and  
48 resentment<sup>2</sup>. These results provoked many scientists to investigate those psychosocial  
49 aspects of human being which influence to reduce experience of discrimination among  
50 them.

51 It was found after reviewing various former debates, along with restricted number of  
52 available studies that religion is considered as a noticeable place in group and may act  
53 as a shield against harmful mental outcomes of discrimination and additional traumatic  
54 situations<sup>3</sup>. Various theoretical and socio historical studies have proposed that religion  
55 may be helpful in mitigating emotional outcomes of discrimination.

56 A number of researchers have examined effect of religiosity level on various mental  
57 health states for instance adverse psychological consequences <sup>4</sup>; life gratification; signs  
58 of depression along with key depressive condition.

59 Similarly, there are evidences which support that stressful and potentially traumatic  
60 experiences of life often disturb “assumptive world” of individuals who have gone under  
61 such situation <sup>5</sup>. This assumptive world is where the individual can count on for being  
62 consistent, expectable and even manageable. Sometimes traumatic experiences  
63 transform individuals and help them to reconstruct and modify their assumptive world  
64 and bring them to normal functioning. This reconstruction of schemas is done through  
65 rearticulating thoughts, feelings and emotions associated with stressor and integrating it  
66 into structure of cognition. Therefore, after passing through a traumatic life incident,  
67 people may find new meanings of their life and world and eventually follow new  
68 strategies to cope with the changing situations. In turn, these strategies lead towards a  
69 greater sense of self efficacy. Furthermore, people reexamine their aims and ambitions  
70 and set their priorities accordingly. By going through this process individuals equip  
71 themselves along with newly found logic of strength, an improved gratitude and  
72 reassessment of their priorities <sup>6</sup>.

73 Considering the stress related growth it is cleared that it denotes the optimistic variations  
74 that may be the consequence of traumatic life incidents. In past, researches on influences  
75 of stressful life events have generally concentrated the adverse outcomes of the  
76 incidents, but now it is being suggested that individuals may grow psychologically,  
77 emotionally as these stressful events may strengthen their potential. Arguments  
78 supporting post-traumatic growth hold that experience of stressful life events breaks the  
79 individual’s already present schemas about the suppositions of one’s self and world’s  
80 view and promotes restructuring of the beliefs.

81 Present study may contribute in the literature in various means. The researchers focused  
82 that despite the fact that HIV patients are discriminated, there are certain social and

83 psychological factors which not only mitigate effects of discrimination but also promote  
84 stress related growth of HIV victims.

85 It is observed that health is affected by the religious and spiritual beliefs of a person in  
86 a positive way. Affirmative attitude towards the religion is helpful in coping with  
87 various stressful events of routine life (e.g.,<sup>7</sup>). For instance, any medical illness relevant  
88 to mental and physical health are the major life events for which the religious and  
89 spiritual beliefs are used as coping strategy<sup>8</sup>. Religiosity and well-being of a person are  
90 positively associated with each other. However, religiosity is negatively associated with  
91 level of depression of a person. While praying, reading the religious material and  
92 attending the religious sittings reduces the depressive symptoms and enhances the self-  
93 esteem of a person<sup>9</sup>.

94 In the same vein self-esteem is an important factor that helps individuals to get through  
95 difficult situations. Self-esteem means feeling high for one's self. If people have high  
96 self-esteem it means they are satisfied with their self that may eventually help them to  
97 build their confidence. So people's high self-esteem mitigates the effects of perceived  
98 discrimination, even if they are discriminated on the basis of certain traits. It is vital to  
99 understand the component of self-esteem among those who are living with HIV. With  
100 the increase in self-esteem, positivity towards life increases, conversely, people with  
101 low self-esteem are more depressed and hopeless and have more negative mental health  
102 conditions<sup>10</sup>. The people who have high self-esteem are more likely to be motivated  
103 and have high confidence level to control their lives even if it takes considerable  
104 struggles. Studies have also identified mutual support, parental relationships and  
105 supportive communication of family as correlates of self-esteem of children<sup>11</sup>.

106 Concerning to the association of religiosity with self-esteem, studies show that  
107 religiosity strengthens the feelings of self-esteem. Similarly, Evers (2009)<sup>12</sup> found that  
108 religiosity hinders the risk of poor self-esteem and depression. Over the years, results  
109 regarding relationship between discrimination and self-esteem have also been  
110 conflicting. Discrimination affects self-esteem. However, there are certain studies that

111 have found no association between discrimination and self-esteem<sup>13</sup>. Regarding  
112 contradicting results of association between discrimination and self-esteem researchers  
113 argued that there are various factors, for instance social environment, social structure  
114 and personal variables that may help individuals to overcome negative experiences of  
115 discrimination <sup>14</sup>.

116 The present study examines role of religiosity and self-esteem in mitigating perceived  
117 discrimination and eventually leading to stress related growth among HIV/AIDS  
118 positive patients. Religiosity and self-esteem may seem as shielding elements against  
119 discrimination and support optimistically in stressful situation.

120 The main objectives of the present study were to:

- 121 i) Examine association between levels of religiosity, self-esteem, perceived  
122 discrimination and stress related growth among HIV/AIDS Patients
- 123 ii) Find out the mediating effect of self-esteem on perceived discrimination and stress  
124 related growth among HIV/AIDS Patients.

125

## 126 **Method**

### 127 **Participants and Sample**

128 This is a descriptive and cross sectional study. The target population of the present study  
129 was both male and female HIV/AIDS positive patients registered in Voluntary  
130 Confidential Counseling & Testing (VCCT) Center at Civil Hospital, Jalal Pur Jattan  
131 (JPJ), District Gujrat, Pakistan. Stratified Random Sampling technique was used to  
132 select the sample from both strata (male and female) of target population. Total 647  
133 patients were registered at the time of data collection (2017), from which sample of 247  
134 was drawn by using Taro Yamani<sup>15</sup> formula of sample size. Number of male and female  
135 patients was almost equal in both strata, so equal sample size (124 males and 124  
136 females) was selected to be included as study respondents. Correlation and Regression  
137 analysis were used to analyze the data by using SPSS.

138

### 139 **Inclusion Criteria**

140 The respondents included in the present study were HIV/AIDS positive. They were  
141 registered in VCCT center and seeking treatment for HIV/AIDS from that center.

### 142 **Instrument**

143 Demographic Variables: Questions regarding gender, age, education, occupation and  
144 monthly income were asked in questionnaire to collect socio-demographic information  
145 of respondents.

146 Religiosity Scale: Religiosity and spirituality scale for youth used in this study that was  
147 developed and validated by Hernandez (2011)<sup>16</sup>. This scale was consisted of 37 items.  
148 Each item was scored on a 4-point likert type scale ranging from 0= never, 1=  
149 sometimes, 2= often, 3= always. The scale measured level of religiosity with a  
150 combination of dimension of spirituality. No item needed reverse coding. Minimum and  
151 maximum scores on the scale were 51 and 93 respectively. High score on the index  
152 showed high level of religiosity. The reliability of this scale for the present study was  
153 moderate (Cronbach's alpha=.59).

154 Rosenberg Self-esteem Scale: Rosenberg self-esteem was developed by Rosenberg  
155 (1965)<sup>17</sup>. The scale was one-dimensional. It was a 10-item scale. The researchers  
156 measured this scale on 6-point likert scale ranging from 1=strongly disagree, 2=  
157 disagree, 3= slightly disagree, 4= slightly agree, 5= agree, 6= strongly agree. Higher  
158 total score of self-esteem index showed higher level of self-esteem. The reliability of  
159 this scale for the present study was .217.

160 Discrimination Scale: the scale was developed for Chicago Community Adult Health  
161 Study (CCAHS). It was a 5-item scale. The researchers measured this scale on 6-point  
162 likert scale ranging from 1=strongly disagree, 2= disagree, 3= slightly disagree, 4=  
163 slightly agree, 5= agree, 6= strongly agree. Higher score on discrimination index reflects  
164 higher discrimination. Overall reliability value of Cronbach's alpha was .77 for this  
165 scale. The reliability of the scale as measured by present study was high (Cronbach's  
166 alpha=.811).

167 Stress Related Growth Scale: The scale was adopted from Assessment and Prediction  
168 of Stress-related Growth by Park, Mohan and Murch (1996)<sup>18</sup>. The researchers  
169 measured this scale on 6-point likert scale ranging from 1=strongly disagree, 2=  
170 disagree, 3= slightly disagree, 4= slightly agree, 5= agree, 6= strongly agree. Higher  
171 total score of stress related growth index reflects higher level of stress related growth.  
172 The reliability for the present study was fairly high (Cronbach's alpha= .063).  
173 The members of Ethical Review Board certified that the study caused no harm to the  
174 subjects and their confidentiality and anonymity was ensured.

175

## 176 **Result**

177 Table 1 shows the percentage distribution of socio-demographic variables of the  
178 participants. It depicts that there were equal number of males and females respondents.  
179 Majority of them belong to age group 29-37 (39.5%). Educational attainment of  
180 majority of the respondents was 6-11 years (38.3%), whereas, 27.4% of the respondents  
181 had monthly household income between Rs.10001-20000.

182 In order to test the hypothesized relationship between variables, researchers used  
183 correlation and regression analysis and then the path analysis.

184 Table 2 illustrates that the correlation between level of religiosity, level of self-esteem,  
185 level of perceived discrimination and level of stress related growth. It depicts that the  
186 level of religiosity and level of self-esteem has a strong positive correlation with the  
187 level of self-esteem having correlation value .143 and this relationship is also significant  
188 because p-value (.025) is less than level of significance (0.05). The relationship between  
189 level of religiosity and level of perceived discrimination is negative which is evident  
190 from its correlation value (-.255) and this correlation is significant because p-value (.000)  
191 is less than the level of significance. Similarly, the correlation between level of  
192 religiosity and stress related growth is also positive with value .142 and significant with  
193 p-value .018.

194 Level of self-esteem is negatively correlated with level of perceived discrimination with  
195 correlation value  $-.150$  and significant with p-value  $.027$  whereas, with level of stress  
196 related growth it is positively correlated with value  $.151$  and significant because p-value  
197 ( $.017$ ) is less than level of significance ( $0.05$ ).

198 The table also depicts that level of perceived discrimination and level of stress related  
199 growth are negatively correlated with each other with correlation value  $-.129$  and this  
200 relationship is significant because p-value is  $.042$  (less than level of significance  $0.05$ ).

201 According to the results showed in table, level of religiosity, level of self-esteem and  
202 level of stress related growth are positively and significantly correlated with each other  
203 whereas, these are negatively correlated with level of perceived discrimination.

204 Stepwise linear regression analysis was also performed (table 3) to see the impact of  
205 level of religiosity and level of self-esteem on the level of stress related growth (model  
206 1). In model 2, impact of level of religiosity and level of self-esteem on level of  
207 perceived discrimination was also analyzed.

208 Model 1 in table shows the value of regression coefficient ( $0.048$ ) indicates that  
209 religiosity has significant effect on stress related growth because p-value  $0.001$  is less  
210 than  $0.05$  (level of significance). Moreover, level of self-esteem has also a strong  
211 positive effect on level of stress related growth because p-value is  $.017$  which is less  
212 than level of significance ( $0.05$ ). In this model beta value of level of self-esteem ( $.153$ )  
213 indicates that this variable is positively associated with level of stress related growth  
214 among HIV/AIDS positive patients.

215 The model 2 indicates that level of religiosity and level of self-esteem are also positively  
216 and significantly impacting the level of perceived discrimination at p-value  $.001$  and  
217  $.043$  respectively which is less than  $0.05$ . The beta values of level of religiosity and level  
218 of self-esteem ( $-.110$  and  $-.074$  respectively) depict that they are negatively affecting the  
219 level of perceived discrimination among HIV/AIDS positive patients.

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## 222 **Path Analysis**

223 Path analysis was executed to test the hypothesized relationship between the variables.  
224 The mediating model (Fig. 1) illustrates the effects of level of religiosity directly on  
225 level of self-esteem, level of perceived discrimination and level of stress related growth  
226 among HIV/AIDS positive patients. The model also depicts the effect of level of  
227 religiosity on level of perceived discrimination and level of stress related growth  
228 through mediating variable that is level of self-esteem.

229 The values indicate the significant positive effect of religiosity on self-esteem at alpha  
230 .05 ( $p=.024$ ). The direct effect of religiosity on perceived discrimination and stress  
231 related growth was also found as significant with p value .03 and .019 respectively. The  
232 model illustrates that self-esteem mediates the role of religiosity on perceived  
233 discrimination and stress related growth among HIV/AIDS positive patients. This  
234 mediation is significant at alpha .05 for self-esteem and perceived discrimination  
235 ( $p=.04$ ) and for self-esteem and stress related growth (.029) as well. The analysis also  
236 found that perceived discrimination and stress related growth are significantly  
237 negatively associated with each other ( $p=.030$ ).

238

## 239 **Discussion**

240 People around the world are being affected by a distressing disease HIV/AIDS. In a  
241 traditional society like Pakistan it is believed that people suffer from HIV/AIDS due to  
242 their wrong doings. In such circumstances, it is observed that religion helps them to  
243 cope with negative attitudes. Plausible explanation could be that religion gives worth to  
244 people's life. It does not let them fall down. Whatever good or bad comes their way,  
245 they feel that it is from God and they take it as a test. They believe that if they pass this  
246 test it will help them in life here after. Therefore, various studies have endorsed positive  
247 relationship between religion and self-esteem. Religion plays an important role in the  
248 life of individuals in Asian subcontinent<sup>19</sup>, therefore religion's role in helping to boost  
249 up self-esteem is a common phenomenon<sup>20</sup>. Religious doctrines protect a person against

250 desperateness and boost self-esteem and self-confidence. The findings suggest that  
251 religiosity plays a significant role in determining the self-esteem which lowers the level  
252 of perceived discrimination and enhances stress related growth among HIV/AIDS  
253 positive patients.

254 Results of the present study supported the assumption that people living with HIV/AIDS  
255 showed negative association between self-esteem and perceived discrimination.

256 Findings of present study confirmed that religion is directly positively associated with  
257 stress- related growth suggesting that if respondents' religiosity level is high their stress  
258 related growth will also be high. Plausible explanation of this link is that religiosity  
259 plays an important role in the life of individuals and helps them to develop their  
260 personalities and serve as a force against odd situations in life<sup>21, 22</sup>.

261 Self-esteem also appeared to be significantly associated with level of stress related  
262 growth. The results of correlation showed a positive (.151) and significant (.017)  
263 association between level of self-esteem and level of stress related growth among HIV  
264 patients. Similarly, the result of regression analysis showed significant p-value for  
265 prediction. The results of present study corroborated with some previous studies as  
266 Schaefer and Moos (1992, 1998)<sup>23</sup> suggested in their study that during the crisis,  
267 personal resources or characteristics of a human being that are self-esteem and  
268 perceptions of growth can help to support growth. It was also discussed by Park (1998)<sup>24</sup>  
269 and that the people are more inclined to identify, experience and report growth because  
270 of these resources which promote the perception of controlling/ overcoming the causes  
271 of stress and to achieve growth. It was also found in the study conducted by Abraido-  
272 Lanza et al. (1998)<sup>25</sup> that growth among chronically ill Latinas was predicted by greater  
273 self-esteem. The results of present study support that with high level of self-esteem the  
274 respondents tend to show high level of stress related growth.

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## 278 **Conclusion**

279 With reference to the findings of the present study it can be inferred that there exists a  
280 significant relationship of level of religiosity with self-esteem ( $r=.143$ ), level of  
281 discrimination ( $r=-.255$ ) and level of stress related growth ( $r=.142$ ) among HIV/AIDS  
282 patients. So, the study determines that religion and religiosity plays an essential role in  
283 coping with the stress caused to the patients of HIV/AIDS. Religiosity boosts up the  
284 confidence among the patients which induces self-esteem. With the high level of self-  
285 esteem, the patients combat with perceived discrimination perpetuated by the family,  
286 friends or other members of the society. Their attitude remains positive in stressful and  
287 traumatic experiences of life by having high level of stress related growth. By planning  
288 and implementing such programs at community level which target HIV/AIDS patients  
289 to enhance their level of religiosity and self-esteem, perceived discrimination may be  
290 reduced and stress related growth fueled up.

291 Further, the present study recommends that qualitative study may be conducted in future  
292 to have in-depth understanding of stress related growth among HIV/AIDS positive  
293 patients.

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295 **Disclaimer:** None to declare.

296 **Conflict of Interest:** None to declare.

297 **Funding Sources:** None to declare.

## 298 **Ethical Concern**

299 The researchers did not mention the names of the respondents on tool of data  
300 collection to maintain the confidentiality and privacy of the respondents.

301

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**Table 1: Demographic variables (n=248)**

Variables	Sample Distribution	Frequency
<b>Gender</b>		
Male	124	50.0
Female	124	50.0
<b>Age</b>		
20-28	83	33.5
29-37	98	39.5
38-46	67	27.0
<b>Years of Education</b>		
0-5	69	27.8
6-11	95	38.3
12-16	84	33.9
<b>Respondent's Monthly Income (Rs.)</b>		
>10000	57	23.0
10001-20000	68	27.4
20001-30000	57	23.0
30001-40000	56	22.6
40001<	10	4.0

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378 **Table 2: Correlation analysis of religiosity, self-esteem, discrimination and stress**  
 379 **related growth (N=248)**

380 **Correlation Analysis**

		Level of Religiosity	Level of Self-esteem	Level of Discrimination	Level of Stress Related Growth
Level of Religiosity	Pearson Correlation	1	.143*	-.255**	.142*
	Sig. (2-tailed)		.025	.000	.018
Level of Self- esteem	Pearson Correlation	.143*	1	-.150*	.151*
	Sig. (2-tailed)	.025		.027	.017
Level of Discrimination	Pearson Correlation	-.255**	-.150*	1	-.129*
	Sig. (2-tailed)	.000	.027		.042
Level of Stress Related Growth	Pearson Correlation	.142*	.151*	-.129*	1
	Sig. (2-tailed)	.018	.017	.042	

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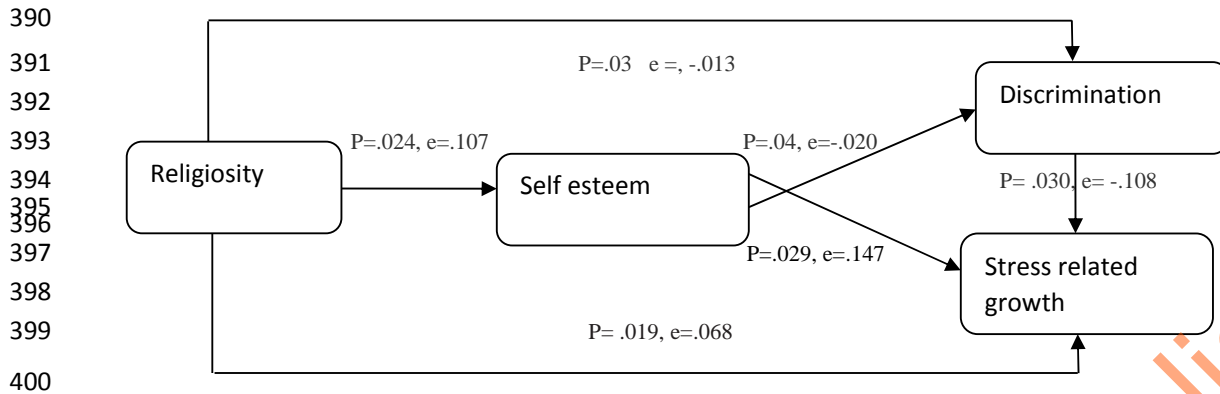
\*. Correlation is significant at the 0.05 level (2-tailed)  
 \*\*. Correlation is significant at the 0.01 level (2-tailed)

384 **Table 3: Multiple Linear regression to predict stress related growth by religiosity,**  
 385 **self-esteem and perceived discrimination (N=248)**

386 **Regression Analysis**

		Unstandardized Coefficients		Standardized Coefficients		
		B	Std. Error	Beta	t	Sig.
Model 1	(Constant)	2.065	.223		9.268	.000
	Level of Religiosity	.039	.053	.048	.731	.001
	Level of Self-esteem	.164	.068	.153	2.405	.017
a. Dependent Variable: Level of Stress related growth						
Model 2	(Constant)	2.339	.194		12.086	.000
	Level of Religiosity	-.060	.053	-.074	1.136	.001
	Level of Self-esteem	-.094	.056	-.110	1.689	.043
b. Dependent Variable: Level of perceived Discrimination						

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401 **Figure 1: Model illustrating the effect of level of religiosity, level of self-esteem and**  
402 **discrimination on level of stress related growth among HIV/AIDS positive patients**

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