# Factors affecting Career Choice among Medical Students

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#### ABSTRACT

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Background: The career decisions of medical students have a significant impact on the future of healthcare delivery. It is crucial to understand the factors that influence their career choices in order to guide medical education and workforce planning effectively. A range of personal, academic, and environmental factors contribute to the career choices of medical students. Exploring these factors can offer valuable insights into addressing workforce needs and ensuring the optimal delivery of healthcare. Objective: To investigate the factors influencing career choices among medical students in terms of family influence, school influence, gender influence and peer influence. Study Design: Cross-sectional survey. Settings: Department of Community Medicine, MMC Mirpur Khas Pakistan. Duration: February 2022 to August 2022. Methods: All the medical student from years 1st MBBS and BDS to Final years of education of either gender was included. A structured questionnaire was administered to collect quantitative data on demographic information, academic performance, personal interests, values, and factors influencing career choices and was distributed among the study participants. Semi-structured interviews were also conducted with a subset of participants to delve deeper into their career decision-making processes, to explore the personal experiences, influential factors, and perceptions related to career choices. SPSS version 26 was used for the data analysis. Results: Among the 150 students, 51 (34.0%) were younger than 20 years old, while 99 (66.0%) were older than 20 years old. 50 individuals (33.3%) were males and (66.7%) were females, while out of all 7.9% students were married. Out of all 49.3% strongly agree that parents and their education influence their children's career guidance, while 41.3% simply agree. Only 4.0% are uncertain about this influence, and 5.3% disagree. In terms of career guidance in schools, 33.3% students were strongly agreeing with this concern, while 41.3% simply agree, 14.0% expressed uncertainty about the issue, while 10.7% disagree. According to the influence of gender on students' career choices, 31.3% candidates were strongly agreeing that gender impacts career decisions, while 40.7% simply agreed, 16.0% expressed uncertainty about this influence, while 8.0% disagree. Regarding the importance of peer advice on careers among fellow students, 24.7% of students strongly agreed that peer advice is essential, while 39.3% simply agreed. Furthermore, 20.0% expressed uncertainty about the significance of peer advice, while 12.0% disagreed. Conclusion: Study underscore the complexity of career decision-making among medical students, influenced by familial, educational, gender-related, and peer dynamics. Further research/interventions in career guidance programs may benefit from addressing these varied influences comprehensively.

*Keywords:* Factors, Gender choice, Peer advice, Career guidance, medical students.

#### **INTRODUCTION**

The process of choosing a career is complex and personalized, differing for every individual. It is

shaped by cognitive influences and the social environment in which the person is situated.<sup>1,2</sup> As young people near the completion of their secondary education, the decision ahead becomes a major concern. Both parents

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Submitted for Publication: 12-09-2022 Accepted for Publication 03-12-2022 and their children place great significance on this choice as it will have a profound impact on their lives. Every student, at some stage, faces the challenge of selecting a career pat.<sup>1</sup> Choosing a medical specialty is a crucial decision that has a profound impact on the lives of medical students. The multitude of available specialties and subspecialties often causes confusion for many medical students today.<sup>3</sup> This confusion of multiple options can make the decision-making process highly challenging. Additionally, for many students, this phase represents a transition, where their initial career preferences upon entering medical school may undergo complete transformation by the time they graduate.<sup>3</sup>

The field of medicine stands out as one of the most esteemed and sought-after professions globally, largely due to its potential for offering both financial stability and social recognition.<sup>4</sup> Despite this widespread appeal, it is evident that various factors, including personal aspirations, familial expectations, peer influence, and socioeconomic background, play significant roles in influencing students' decisions to pursue a career in medicine across the globe.<sup>4,5</sup> It is crucial to comprehend how family dynamics impact the self-confidence in career decision-making among secondary career students. Studies have indicated that families, particularly parents, wield significant influence in recognizing their children's talents and guiding their educational paths.<sup>6,7</sup>

The family environment serves as the primary context for personal growth and development. Many medical students perceive their parents as having a substantial impact on their career decisions, while others actively involve their parents in making career choices.<sup>6,8</sup> Gender significantly influences the choice of medical specialties, as males and females possess distinct aptitudes, social roles, and preferences that guide their career decisions.<sup>9</sup> With an increasing number of females entering the medical profession, this aspect has gained heightened significance. Numerous studies have revealed that men tend to gravitate towards surgical specialties more frequently than women.<sup>10</sup>

On the other hand, it has been reported that one of the primary predictors identified was the influence of peer advice, encouragement, and peer education.<sup>11</sup> Despite this, students indicated that they do not actively seek validation of their career decisions from their peers. However, students may feel pressured to choose certain specialties based on the preferences of their peers or to conform to societal norms. Peer influence can also come from older students or senior physicians who may offer guidance or pressure students towards particular specialties. There is a significant research gap in the field of career choices among medical students, particularly in Pakistan. This includes the impact of gender, school environment, family, and peer pressure. Recognizing

these elements is vital for creating focused interventions and support structures to assist students in making wellinformed career decisions. Therefore, this study aims to assess the factors influencing career choices among medical students, specifically examining the influences of family, school, gender, and peer's pressure. This study may helpful to identify the challenges and hurdles that students face when selecting their desired medical specialties. Understanding these factors can lead to the development of interventions aimed at promoting diversity and equality within medical specialties. Additionally, the study's findings can inform the creation of medical education policies and adjustments to the curriculum to better reflect the needs and goals of future healthcare professionals in Pakistan.

# **METHODS**

This cross-sectional survey was carried out at the Community Medicine Department of Community Medicine, MMC Mirpur Khas, over a duration of six months from February 2022 to August 2022. All the medical student from years 1st to Final years of education in equal number from each section of either gender was included. Students who declined to participate in the study were excluded. Written or verbal informed consent was obtained from all participants, with assurance of confidentiality regarding their information. Each student underwent a face-to-face interview, allowing for a comprehensive exploration of their perspectives. Additionally, students were given the option to complete a structured questionnaire independently, providing flexibility in data collection. The structured questionnaire was developed based on factors identified in the literature review, covering various aspects of career choice including gender influence, school environment, parental influence, and peer pressure. All demographic data pertaining to the students, as well as information relevant to the study objectives, were gathered through a questionnaire-based study proforma. Subsequently, SPSS version 26 software was employed for both data entry and analysis.

# RESULTS

A total of 150 medical students were surveyed, with 34.0% of the students being under 20 years old and 66.0% over 20 years old. In terms of gender, 33.3% were male and 66.7% were female. Regarding marital status, 8.7% were married, and 91.3% were single. Father's educational level varied, with 2.0% being illiterate, 4.0% having primary education, 4.7% completing matric, 16.0% having intermediate education, 22.7% holding bachelor's degrees, 34.0% having master's degrees, and 16.7% possessing other educational qualifications. The educational status of the mothers is presented in Table 1.

Vari	Variables		Percent %	
A	<20 years	51	34.0%	
Age groups	>20 years	99	66.0%	
Gender	Male	50	33.3%	
Genuer	Female	100	66.7%	
Marital status	Married	13	8.7%	
Mainal Status	Single	137	91.3%	
	Illiterate	3	2.0%	
	Primary	6	4.0%	
Father	Matric	7	4.7%	
educational	Intermediate	24	16.0%	
status	Bachelor		22.7%	
	Master		34.0%	
	Other	25	16.7%	
	Illiterate	8	5.3%	
	Primary	22	14.7%	
Mother	Matric	15	10.0%	
educational	Intermediate	21	14.0%	
status	Bachelor	27	18.0%	
	Master	36	24.0%	
	Others	21	14.0%	

# Table 1: Demographic characteristics of the students(n=150)

According to the survey findings, almost half of the participants (49.3%) expressed strong agreement regarding the impact of parental influence on career guidance at school, and an additional 41.3% agreed. Similarly, a significant percentage (38.7%) strongly agreed that parental education affects children's career decisions, with 45.3% in agreement. The quality of the relationship between parents and their children was recognized as influential, with 27.3% strongly agreeing and 48.0% agreeing. Furthermore, 23.3% strongly believed in the influence of parental values and beliefs, and 48.7% agreed. The majority of respondents viewed family members as role models for career choices. Moreover, over half of the students strongly agreed or agreed that parental connectedness, expectations, and family business have an influence on career choices, as illustrated in Table 2

# Table 2: Family influence on the career choice of medical students (n=150)

Questioner regarding		Frequency	Percent
Parental influence	Strongly Agree	74	49.3%
impacts children's	Agree	62	41.3%
career guidance at	Uncertain	6	4.0%
school	Disagree	8	5.3%
Education of the parents influences children's career	Strongly Agree	58	38.7%
	Agree	68	45.3%
	Uncertain	17	11.3%
choices	Disagree	5	3.3%
choices	Strongly Disagree	2	1.3%
The parent-child	Strongly agree	41	27.3%
relationship quality	Agree	72	48.0%
influences children's	Uncertain	33	22.0%
career decisions	Disagree	4	2.7%
Walassand 1 P. C. C.	Strongly Agree	35	23.3%
Values and beliefs of	agree	73	48.7%
the parents shape children's career	Uncertain	19	12.7%
choices	Disagree	22	14.7%
choices	Strongly Disagree	01	0.7%
	Strongly Agree	43	28.7%
Family members serve	Agree	68	45.3%
as role models for	Uncertain	16	10.7%
children	Disagree	14	9.3%
	Strongly Disagree	9	6.0%
Connectedness and	Strongly Agree	35	23.3%
expectations of the	Agree	65	43.3%
parents influence	Uncertain	28	18.7%
children's career	Disagree	16	10.7%
choices	Strongly Disagree	5	3.3%
	Strongly Agree	46	30.7%
Businesses of families	Agree	39	26.0%
can influence the	Uncertain	29	19.3%
career choice	Disagree	28	18.7%
	Strongly Disagree	8	5.3%
How many of your	None	23	15.3%
relatives have been in	One	27	18.0%
the profession that	Two	31	20.7%
you have	More than two	68	45.3%

Concerning the school influence on medical students' career choices, 33.3% strongly agreed that career guidance in school addresses students' career confusion, with an additional 41.3% in agreement. Regarding the impact of school location on career choices, 20.0% strongly agreed, and 48.0% agreed. Furthermore, 28.7% strongly agreed that students should explore different workplaces for career exploration, and 41.3% agreed. About the positive influence of career guidance in school on decision-making skills, 26.7% strongly agreed, and 44.0% agreed. Furthermore, over 50% of students strongly agreed and agreed that inviting career experts to provide guidance, the influence of teaching guality on career choices, mentors providing introductory insights into professions, and the importance of school guidance and counseling to students all impact career choices, as shown in Table 3.

# Table 3: School influence on the career choice of medical students (n=150)

Questioner regarding so	hool influence	Frequency	Percent
The school's career	Strongly Agree	50	33.3%
guidance program is	Agree	62	41.3%
designed to alleviate	Uncertain	21	14.0%
students' uncertainty			
about their future careers	Disagree	16	10.7%
	Strongly Agree	30	20.0%
The location of the	Agree	72	48.0%
school has an impact on	Uncertain	30	20.0%
students' career	Disagree	16	10.7%
preferences	Strongly	2	1.00/
	disagree	2	1.3%
	Strongly Agree	43	28.7%
Students to explore	Agree	62	41.3%
various workplaces in	Uncertain	33	22.0%
order to broaden their	Disagree	10	6.7%
understanding of	Strongly	10	
potential career paths	Disagree	2	1.3%
The career guidance	Strongly Agree	40	26.7%
provided by schools	Agree	66	44.0%
serves to improve	Uncertain	19	12.7%
students' ability to make	Disagree	21	14.0%
informed decisions	Strongly	<u>∠1</u>	14.0%
about their future careers	Disagree	4	2.7%
	Strongly Agree	42	28.0%
Schools often enlist the	Agree	59	39.3%
expertise of career	Uncertain	23	15.3%
professionals to offer	Disagree	16	10.7%
guidance to students	Strongly		
~	Disagree	10	6.7%
	Strongly Agree	56	37.3%
The quality of teaching	Agree	48	32.0%
significantly influences	Uncertain	21	14.0%
students' career choices	Disagree	18	12.0%
in a positive manner	Strongly		4.00%
	Disagree	6	4.0%
	Strongly Agree	55	36.7%
Teachers, in their role as	Agree	51	34.0%
mentors, introduce	Uncertain	16	10.7%
students to a diverse	Disagree	15	10.0%
range of professions	Strongly	10	0.70
	Disagree	13	8.7%
School guidance and	Yes	102	68.0%
counseling services are	No	29	19.3%
pivotal in shaping			
students' career decision-	Not Sure	19	8.0%

A significant number of survey participants feel that both boys and girls are driven by similar motivations for career guidance. Moreover, over 80% of the students strongly agreed or agreed that gender influences students' career decisions. Additionally, 53.4% concurred that male students often harbor higher ambitions compared to females, while 56.7% believed that girls are contending with boys in professions traditionally dominated by males. Nearly half, 49.3%, expressed the view that societal norms influence career choices differently for boys and girls, and an equal percentage agreed that women are predominantly viewed as homemakers and men as breadwinners. Furthermore, over half of the respondents agreed that women tend to prioritize careers related to caring for others, and that gender norms impact career choices in terms of masculinity and femininity, as outlined in Table 4

Questioner regarding g		Frequency	Percent
	Strongly Agree	69	46.0%
Males and females have	Agree	47	31.3%
the same motivations	Uncertain	20	13.3%
towards career guidance	Disagree	13	8.7%
	Strongly Disagree	01	0.7%
	Strongly Agree	69	46.0%
0 1 1 4	Strongly Agree	47	31.3%
Gender influences	Agree	61	40.7%
students' choice of career	Uncertain	24	16.0%
Calleel	Disagree	12	8.0%
	Strongly Disagree	06	4.0%
	Strongly Agree	28	18.7%
Male students have	Agree	52	34.7%
higher career ambitions	Uncertain	30	20.0%
compare to girls	Disagree	32	21.3%
	Strongly Disagree	7	4.7%
	Strongly Agree	33	22.0%
Females are now vying	Agree	52	34.7%
with males for careers	Uncertain	26	17.3%
that historically favored	Disagree	32	21.3%
men	Strongly Disagree	7	4.7%
	Strongly Agree	30	20.0%
Expectations for careers	Agree	44	29.3%
differ for boys and girls	Uncertain	36	24.0%
as a result of societal	Disagree	29	19.3%
norms	Strongly Disagree	11	7.3%
Historical gender roles	Strongly Agree	34	22.7%
dictate that women	Agree	41	27.3%
should manage	Uncertain	26	17.3%
households while men	Disagree	36	24.0%
should be the primary wage earners	Strongly Disagree	13	8.7%
~	Strongly Agree	27	18.0%
Women place emphasis	Agree	66	44.0%
on careers involving	Uncertain	25	16.7%
caregiving	Disagree	19	12.7%
_	Strongly Disagree	13	8.7%
	Strongly Agree	38	25.3%
Gender identities play a	Agree	43	28.7%
role in shaping career	Uncertain	41	27.3%
preferences	Disagree	14	9.3%
•		4.4	0.001

# Table 4: Gender influence on the career choice ofmedical students (n=150)

Significant trends were observed in peer influence among medical students. More than 50% of students either strongly agreed or agreed that peer advice on careers is essential. It was also noted that female students are more influenced by peers in career choices, while male students are influenced by fellow males. Opinions varied on the reliability of information from peers, with 30.7% agreeing, 20.7% strongly agreeing, and 29.3% uncertain.

Strongly Disagree

14

9.3%

Furthermore, 39.3% agreed and 16.0% strongly agreed that students in peer groups tend to choose similar careers. Detailed results are presented in table 5

# Table 5: Peer influence on the career choice of medicalstudents n=150

Questioner regarding	g peer influence	Frequency	Percent
	Strongly Agree	37	24.7%
Peer advice on career is essential to fellow students	Agree	59	39.3%
	Uncertain	30	20.0%
	Disagree	18	12.0%
	Strongly Disagree	6	4.0%
The information from	Strongly Agree	31	20.7%
	Agree	46	30.7%
	Uncertain	44	29.3%
peers is generally deemed reliable	Disagree	25	16.7%
deemed renable	Strongly Disagree	4	2.7%
	Strongly Agree	31	20.7%
• /	Strongly Agree	31	20.7%
Young women are	Agree	47	31.3%
frequently swayed by	Uncertain	45	30.0%
their peers when	Disagree	16	10.7%
selecting careers.	Strongly Disagree	11	7.3%
Young men often tend to be influenced by	Strongly Agree	28	18.7%
	Agree	63	42.0%
	Uncertain	36	24.0%
their male peers when	Disagree	19	12.7%
making career choices	Strongly Disagree	4	2.7%
	Strongly Agree	24	16.0%
Students within peer	Agree	59	39.3%
groups frequently	Uncertain	40	26.7%
pursue similar career	Disagree	25	16.7%
paths	Strongly Disagree	2	1.3%
	Strongly Agree	33	22.0%
Career behaviors	Agree	47	31.3%
modifications comes	Uncertain	45	30.0%
from peers	Disagree	20	13.3%
	Strongly Disagree	5	3.3%
<b>D</b>	Strongly Agree	24	16.0%
Peer groups are more	Agree	53	35.3%
likely to heed career	Uncertain	36	24.0%
guidance from members	Disagree	25	16.7%
they hold in high regard	Strongly Disagree	12	8.0%

# DISCUSSION

Career selection among medical students is a nuanced and multifaceted process. The factors impacting career selection in this group involve a thorough examination of the influences that mold their professional paths. Several prominent factors emerge from the literature and empirical findings, each playing a pivotal role in shaping students' career decisions. This study has been done to explore the factors influencing career choices among medical students in terms of family influence, school influence, gender influence and peer influence. In this study, survey findings revealed that more than half of the participants expressed strong agreement or agreement regarding the influence of parental guidance on career

decisions at school, the impact of parental education on children's career choices, and the significance of the quality of the parent-child relationship in shaping career choices. Additionally, a notable portion (23.3%) strongly believed in the influence of parental values and beliefs, with 48.7% in agreement. The majority of respondents also perceived family members as influential role models for career decisions. Furthermore, over half of the students strongly agreed or agreed that parental connectedness, expectations, and family business have an impact on career choices. Consistently, Jasmon et al,6. observed a significant relationship between parental expectations, self-efficacy, and career exploration in children. Conversely, Din MU et al,12 reported that parents' education and socioeconomic status influence the career choices of medical graduates. They found that parents' agreement with their children's chosen career path, driven by a desire for social status and recognition, is a prevalent influencer. Additionally, parents' resources serve as a motivating factor for career choices, and students often seek their consultation before finalizing their career paths.12 few other studies also found parental influence on career choice.<sup>13,14</sup> Griffin B et al,<sup>15</sup> observed that medical students who perceive their parents' anticipation of pursuing a prestigious career in line with family or cultural norms may experience greater uncertainty regarding their career path upon entering medical school.

This study emphasizes the crucial role of schools in shaping medical students' career paths. Many students indicated that school career guidance effectively reduces confusion and influences their career decisions. Additionally, they recognized the impact of school location and emphasized the importance of practical career exploration. Furthermore, numerous students acknowledged the positive influence of school career guidance on their decision-making abilities. These findings are consistent with previous research underlining the significance of structured career guidance programs in helping students navigate the complexities of making career decisions.<sup>16-18</sup>

A significant number of survey participants feel that both boys and girls are driven by similar motivations for career guidance. Moreover, over 80% of the students strongly agreed or agreed that gender influences students' career decisions. Additionally, 53.4% concurred that male students often harbor higher ambitions compared to females, while 56.7% believed that girls are contending with boys in professions traditionally dominated by males. Nearly half, 49.3%, expressed the view that societal norms influence career choices differently for boys and girls, and an equal percentage agreed that women are predominantly viewed as homemakers and men as breadwinners. Furthermore, over half of the respondents agreed that women tend to prioritize careers related to caring for others, and that gender norms impact career choices in terms of masculinity and femininity.

This study underscores the complex interplay between gender and career choices among students. A substantial proportion of survey participants perceive that both boys and girls are motivated by similar factors when it comes to career guidance, the majority of students recognize the influence of gender on career decisions, significant proportion of respondents acknowledge gender disparities in career ambitions, with many believing that male students tend to harbor higher aspirations, students also perceive a shifting landscape where girls are increasingly competing with boys in professions traditionally dominated by males. In the comparison Heiligers PJ et al<sup>12</sup> observed that the both gender and living with a partner independently influence choices, yet they do not interact. Thus, living with a partner holds equal significance for male and female students when making their preferences. Our findings also align with Japanese study by Kawamoto R et al<sup>19</sup> as Japanese medical students have divided their motivations for specialty preference based on gender. Women showed a significant preference for gynae and OBS, pediatrics and psychology compared to men. Conversely, men exhibited a significant preference for surgery and orthopedics compared to women.

In this study Significant trends in peer influence among medical students were observed in this study. More than half of the students acknowledged the importance of peer advice in career decisions, indicating the influential role peers play in shaping career choices. Interestingly, gender differences were noted, with female students being more influenced by peers in career decisions, while male students are influenced by fellow males. This aligns with findings from previous studies by Ogunleye et al. and Mtemeri et al., which highlight the influential roles of both parents and peers in shaping career choices.<sup>20,21</sup> However, in contrast, Oduh et al. observed that peer mentorship had minimal impact on the career choices of medical students.<sup>22</sup>

### CONCLUSION

The study highlights the intricate nature of career decision-making among medical students, which is influenced by factors such as familial, educational, gender-related, and peer dynamics. Future research and interventions aimed at improving career guidance programs would benefit from addressing these diverse influences in a comprehensive manner.

#### LIMITATIONS

Study possesses several limitations specifically limited study sample size.

### SUGGESTIONS / RECOMMENDATIONS

Longitudinal studies are recommended to track the career trajectories of medical students over time, allowing for a deeper understanding of how various influences shape career choices throughout their educational and professional journey.

### **CONFLICT OF INTEREST / DISCLOSURE**

None.

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