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Virtual Interviews: A Cross-Sectional Quality Improvement Project Aimed to Improve the Interview Process in an Internal Medicine Residency Program

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Abstract

Background: The residency interview is a crucial step that helps the program identify potential new trainees while the trainees find out more about the program. With the onset of the COVID-19 pandemic, it became essential to hold interviews virtually.

Objective: Here, we conducted a questionnaire-based study to identify areas of improvement in the virtual interview process in our program.

Methods: The study was conducted among the residency interview applicants of the 2022 match cycle. A questionnaire was sent via email to all applicants who were invited to our residency program for an interview. Out of the 600 applicants who were interviewed in our program, 230 applicants answered the survey, an 11-point questionnaire pertaining to the various aspects of the interview process.

Results: A virtual interview with an option of in-person is the most favored answer among the different groups, i.e., American Medical Graduates (AMGs), International Medical Graduates (IMGs) without need for a visa, and IMGs with a need for a visa, respectively, were, 37.5%, 42.8%, and 38.65%, respectively. An updated website with all required information was a top resource used by 95%, 84.5%, and 89.6% of the different groups of candidates. American medical graduates (32.50%) place high importance on resident interaction, while international medical graduates want the programs to focus on their website and provide more information about all aspects of the program during the virtual interview.

Conclusions: In the post-COVID-19 era, Internal Medicine programs will need to improve several aspects of virtual interviews while assessing what is important to candidates.

Categories: Medical Education, Quality Improvement

Keywords: categorical cadidates, preliminary candidates, resident interaction, program website, virtual interview

Introduction

The residency interview is a crucial step that acts as the meeting point for the applicant and the residency program. It helps the program identify potential new trainees while the trainees find out more about the program and if they would like to train at the program for their residency. Coronavirus disease (COVID-19), while having a great impact on medicine, has also ushered in a new era of virtual interviews. The interviews season in 2020 was the first time programs across the country had to resort to the use of virtual interviews based on recommendations of the Coalition for physician accountability [1]. However, the use of virtual interviews is not entirely new and was previously used by specialties such as Urology, Obstetrics, Gynecology, and Orthopedics in their recruitment process. A literature search shows that the initial response from many applicants did not have a satisfactory interview experience [2,3]. However, with the widespread nature of the pandemic, it has now become essential to hold interviews virtually, keeping in mind the safety of everyone involved in the process as a top priority. While virtual interviews helped with overcoming a few hurdles during the pandemic (e.g., the impact of travel bans across the world), they also came with their downside, with the biggest issue being the inability of applicants to see the program in person [4].

International Medical Graduates (IMGs) are an important part of the continued Graduate medical education (GME) and hospitals across the country contributing to relieving the linguistic and cultural barriers to receiving healthcare [5]. The hurdles they meet begin long before application season, and they constantly work to overcome hurdles such as adapting to a different work environment, improving their communication skills, overcoming emotional distress, and struggling to afford the financial cost of applications and the interview season. The differentiation between the two groups would thus give

appropriate information to program directors on possible changes that could be made in their interviews, keeping the needs of both the AMGs and the IMGs in mind. Here, we conducted a questionnaire-based study to help find out the potential areas of improvement in the virtual interview process in our program.

Materials And Methods

A questionnaire, which was designed to focus on key aspects of interviews, was sent via email to all applicants who were invited to the SUNY Downstate residency program for an interview. The questionnaire, which was designed to be anonymous, was sent after the national residency matching program (nrmp) rank list deadline submission day to prevent any bias in answering questions related to their interviews. The study was also Institutional Review Board (IRB) exempt as deemed by the IRB at SUNY Downstate. The number of candidates who were interviewed for the 2022 match at our program was approximately 600. Two hundred thirty candidates answered the questionnaire (Appendix) between March to July 2022. The 11-point questionnaire pertained to the various aspects of the interview process. Among the 230 respondents to our questionnaire, there were no candidates who had applied to primary care, and hence the subgroup has not been included in our analysis and discussion. Analysis was carried out using StataCorp. 2017. Stata Statistical Software: Release 15. College Station, TX: StataCorp LLC. Likert scales were converted to numerical scores (1-5), and Microsoft Excel (Redmond, USA) was utilized to generate graphs. Frequencies and percentages were used to summarize categorical variables.

Results

Among the 230 candidates, there were 40 AMGs, 84 IMGs without the need for a visa, and 106 IMGs with a need for a visa. More than 50% of candidates among all groups have indicated that they would like a virtual interview or a virtual interview with an option of in-person (Table 1). The majority of candidates among the three different subgroups (95%, 84.5%, and 89.6%, respectively) rated the program website as their top resource to utilize for their interviews, while the option of "speaking to current or past residents" is seen to be rated second among all groups (87.5%, 76.1%, and 87.7%, respectively) (Table 2). From a candidate's perspective, while all aspects of a residency interview were rated highly, aspects such as resident trajectory, resident interaction, and introduction of faculty were deemed important by both AMGs and IMGs, with IMGs rating all of them higher (Figure 1). Our residency program scored well among IMGs in several aspects of the interview, such as information about fellowship opportunities and introduction to the program, with more than 85% of applicants rating their experience highly (Figure 2).

otal No. of respondents	AMG(N)	IMG without the need for a Visa(N)	IMG with the need for a Visa(N)	p-value
230	40 (17.3%)	84 (36.5%)	106 (46%)	
Preliminary	12 (30%)	11 (13%)	(3.7%)	<0.0001
Categorical	25 (62.5%)	67 (79.7%)	101 (95.2%)	<0.0001
Categorical and primary care	3 (7.5%)	6 (7.14%)	(0.94%)	<0.0643
No. of the respondents from different groups that said yes to having the option of virtual and in-person nterviews	25 (62.5%)	57 (67.8%)	64 (60.3%)	<0.5624
Type of interview preferred				
In-person	12 (30%)	28 (33.3%)	28 (26.4%)	<0.5823
Virtual	13 (32.5%)	20 (23.8%)	37 (34.9%)	<0.2438
√irtual with an option of in-person	15 (37.5%)	36 (42.8%)	(38.6%)	<0.7918

TABLE 1: Demographics of candidates, along with the preference for interviews

Data are presented as number (N), and the percentage is given in brackets (percentage of the total number in the group. i.e., AMG, IMG without need for visa and IMG with a need for visa)

Resources used for the Interview	AMG-40(N) (Rated it a 4 or 5)	IMG without the need for a Visa-84(N) (Rated it a 4 or 5)	IMG with the need for a Visa- 106(N) (Rated it a 4 or 5)	p-value
Program website	38 (95%)	71 (84.5%)	95 (89.6%)	<0.2086
Virtual open house	26 (65%)	57 (67.8%)	76 (71.6%)	<0.7008
Other internet sources	21 (52.5%)	47 (55.9%)	68 (64.1%)	<0.335
Speaking to past or current residents	35 (87.5%)	64 (76.1%)	93 (87.7%)	<0.0782

TABLE 2: Resources used for the interview

Data are presented as number (N), and the percentage is given in brackets (Brackets: percentage of the total number in the group, i.e., AMG, IMG without need for visa and IMG with a need for visa).

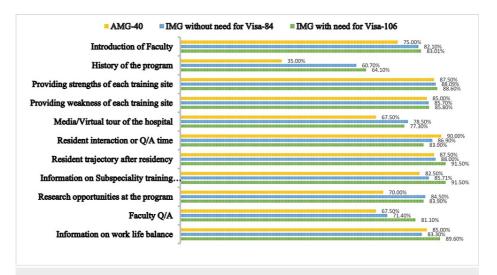


FIGURE 1: Comparison of the three different sub groups of candidates on their rating of aspects of the interview.

Percentage is used for comparison values.

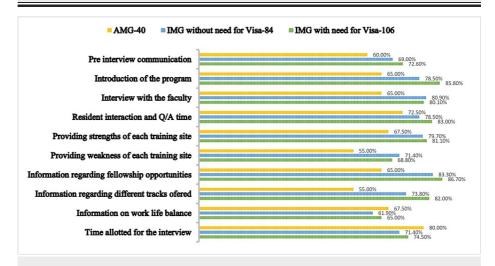


FIGURE 2: Comparison of the three different sub groups of candidates on their experience at SUNY Downstate on different aspects of the interview.

Comparison values are given in percentage.

When given options to help us improve the interview process AMGs chose options such as improving faculty interaction, provident additional resident interaction, and providing a pre- or post-interview virtual happy hour, whereas IMGs chose to include additional information about different tracks offered and add a virtual tour of the hospital above AMGs (Figure 3). Preliminary candidates wanted the program to improve the pre-interview communication and provide information about the interviewers before the interview, whereas categorical applicants wanted the program to focus on improving faculty interaction during interviews, adding a virtual hospital tour and a virtual happy hour, and scheduling additional interviews (Figure 4).

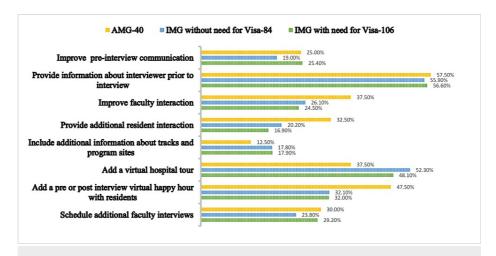


FIGURE 3: Comparison of the three different sub groups of candidates on steps to improve the interview experience at SUNY Downstate.

Comparison values are given in percentage.

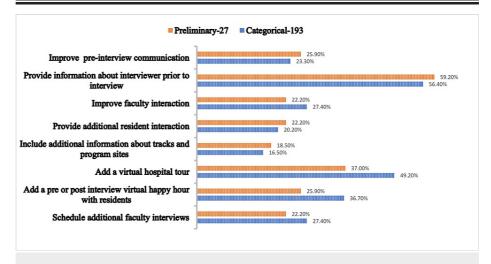


FIGURE 4: Comparison between preliminary and categorical candidates on steps to improve the interview experience at SUNY Downstate.

Comparison value are given in percentage

Discussion

The study aimed to improve the interview process at our program and specifically addressed the aspects of the virtual interview, which has now become. An 11-point questionnaire was sent to the 600 applicants who interviewed at our program for the 2022 match cycle. Two hundred and thirty candidates responded to the survey. Table 1 shows the demographics of the candidates. We divided the candidates into three different categories: 1: American medical graduates (AMGs), 2: International medical graduates (IMGs) without a need for visa, and 3: International medical graduates with a need for visa sponsorship. The differentiation of candidates was performed to show the involvement of all types of candidates and to also ascertain if different categories of candidates had certain areas of preference for improvement in the interview process.

Table 1 shows the demographics along with preferences in the type of interview among different groups. As seen in multiple studies and papers, the state of New York is among the states with a high intake of IMGs, and it is no coincidence that it is reflected in our study [6-8]. We divided the candidates based on the program they applied to. This differentiation was done to analyze if there were different needs that we need to focus on among candidates applying to the different tracks of programs available to our residency program. The different tracks offered in our program include Preliminary, Categorical, and Primary care. The survey was sent to all candidates who interviewed with our categorical program alone. However, 10 candidates have indicated that they applied to both the categorical and primary care tracks. In a study

conducted by Chadaga AR et al., it has been shown that preliminary candidates have different preferences as compared to the categorical candidates in terms of the overall duration of interview days, interview time, and interactions with the house staff [9]. This could be reflective of the fact that they would prefer to spend more time on the interviews for their chosen specialty. Hence, we decided to take note of their preferences in improving the interview process in question eight.

In response to the type of interview preferred (Table 2), we see that a virtual interview with an option of inperson is the most favored answer among the different groups (AMGs and IMGs) with 37.5%, 42.8%, and 38.65%, respectively. This is perhaps reflective of the mindset of applicants keeping in mind the effects of the pandemic as well as having seen the benefits of the newly introduced virtual interview process. Different studies show that program directors (PDs) and applicants preferred the virtual interview process over the traditional in-person interview [10-12]. This trend toward favoring virtual interviews is possibly due to the high financial costs involved by both parties in the interview process. The cost of recruitment for internal medicine programs averages \$148,000 per season per program [13]. In the study by Robinson KA et al. [10], the median cost of \$600 per in-person interview seems to place a high degree of financial burden on the applicant, and it is only logical that the majority would choose against in-person interview. In the same study, both PDs and applicants felt that in-person interviews strengthen the connection between the candidate and the program. Applicants also voted for an in-person option in their study as opposed to PDs who did not. Overall, we can conclude that virtual interviews could have a higher benefit, and the option of having in-person can be a choice to be discussed by each program.

Utilizing the program website topped the choices, followed by speaking to current or past residents among the AMGs and IMGs when asked about resources used by them to prepare for the interview process. The program website is the obvious first step in understanding the program among all groups of applicants and sets a tone of interest among applicants in choosing to apply to a program. The most important information sought after would be details of the program itself, faculty and resident profiles, and research opportunities [14,15]. IMGs understand the recruitment process of a program by looking through the resident profiles, and it is an important factor to be noted by PDs when updating their websites. Chadaga AR et al. also brought into focus the importance of applicants directly speaking to residents and being interviewed by chief residents. Their study showed that AMGs preferred speaking to residents over IMGs though it is seen that IMGs preferred a time frame of fewer than 60 minutes to interact with residents as opposed to having no interaction at all. However, in our survey, both groups had similar interests, and this is a potential area for PDs to focus more on during their virtual interview process.

Programs routinely use aspects such as application features/programs, personal statements, recommendation letters, curriculum vitae, and interviews to assess the communication and interpersonal skills, knowledge base, and experience of the applicant [16]. We wanted to know how the applicants did the same for the program they interview at. The survey asked the applicants to rate the various aspects of the interview on a scale of 1 to 5, with a rating of 4 or 5 considered very important to them. Figure 1 shows the importance placed by AMGs and IMGs on 11 aspects of the interview, which were chosen by us after a discussion on the interview process. The study by Phitayakorn R et al. showed that applicants regard the ability of the program to prepare residents for future training or position, the morale of residents, faculty at the program, and patient diversity to be the most important aspects to candidates [17]. This is reflected in our survey, where aspects such as resident trajectory, resident interaction, and introduction of faculty were deemed important by both AMGs and IMGs, with IMGs rating all of them higher. A similar study by Gaeta TJ et al. showed that applicants considered the presentation of the curriculum, information about the hospital and its affiliates, faculty and resident information, and research activities to be important as well [18]. Surprisingly, the virtual tour of the hospital ranked low even though it was thought applicants would like to see the features of the various teaching sites involved.

Our program scored well among IMGs in several aspects of the interview (Figure 2), such as information about fellowship opportunities and introduction to the program, with more than 85% of applicants rating their experience highly. The aspects such as resident interaction or Q/A time, interviews with faculty, information on the different tracks offered at the program and strengths of each training site chosen by more than 80% of IMGs. AMGs rated the time allotted for the interview higher than other aspects, followed by resident interaction or Q/A time. However, the number of respondents in the AMG group was smaller, so it might be difficult to compare groups.

We compared different groups on the options they chose to help us improve the interview process (Figure 3). AMGs chose options such as improving faculty interaction, provident additional resident interaction and providing a pre- or post-interview virtual happy hour over IMGs. Whereas IMGs chose to include additional information about different tracks offered and add a virtual tour of the hospital above AMGs. This may reflect the importance of resident interaction placed by AMGs and more program information required by the IMGs, which are to be noted by the PDs. Another important comparison was done by looking at the preliminary vs. categorical groups (Figure 4). Preliminary applicants wanted the program to improve the preinterview communication and provide information about the interviewers prior to the interview. Categorical applicants wanted the program to focus on improving faculty interaction during interviews, adding a virtual hospital tour, the addition of a virtual happy hour and scheduling additional interviews. Both groups have shown interest in different aspects, which was expected by our team.

Finally, 171 (74.34%) of candidates responded with a 4 or 5 on a scale when asked if they would recommend our program to a junior or a colleague at the next match cycle. Two hundred and seventeen (94.35%) of candidates did not experience any technical difficulties during their interview.

The limitations of the study include the following: i) the survey was sent to all applicants who interviewed at the program, so there is a potential for bias in their answers; however, we sent the survey after the rank order list deadline to avoid any kind of bias ii) the demographics of the candidates who participated in the survey is not available, but the survey avoided questions about demographics as we did not think it was an important criteria to group candidates answers based on their gender or race.

Conclusions

Virtual interviews are likely to become the norm for all residency programs across the country despite the COVID-19 pandemic being less pathogenic. Applicants and PDs view the benefits of virtual interviews to outweigh the benefits of the in-person interview. Programs must work together with the applicants to help each other find their most suitable match. Programs must update their website with all required information as required by the applicants if they want to attract the most competitive applications. Applicants have consistently placed aspects such as presentation of the curriculum, information about the hospital and its affiliates, faculty and resident information, and research activities as important aspects in their evaluation of a program, and hence PDs must work to provide information on all these categories. Our institution undertook this survey to address aspects ranked high by the respondents to our survey. AMGs and our institution place high importance on resident interaction, which can be made possible by having more resident interaction time with virtual happy hours or allotting more time during the interview for the applicants to talk to current residents. PDs can help IMGs by updating the program website and providing more information about all aspects of the program during the virtual interview. Finally, programs can be applicant-centric by focusing on aspects considered important by preliminary applicants in addition to their categorical counterparts.

Appendices

The questions from the questionnaire are listed in Figures 5-10.

10/7/22, 10:23 AM

Interviews: Yay or Nay-A cross sectional Quality Improvement project aimed to improve the residency interview process at SUN,



Interviews: Yay or Nay-A cross sectional Quality Improvement project aimed to improve the residency interview process at SUNY Downstate

	* 1. Tell us about yourself.	
	American Medical Graduate.	
	O International Medical Graduate with no need for visa.	
	O International Medical Graduate with need for visa.	
	Other (please specify)	
	* 2. Which Program have you applied for?	
	O Preliminary	
	○ Categorical	
https://www.surveymonke	y,com/r/9Y8F7XS	1/7

FIGURE 5: Questionnaire

Questions 1 and 2

	10/7/22, 10:23 AM	Interviews: Yay or Nay-A	cross sectiona	al Quality Impro-	vement project	aimed to improv	e the residency interview process at S	SUN
		O Primary	Care					
		O Both Ca	tegorical a	und Primar	y Care			
		* 3. Do you interviewing communicat	g: In per				otions of	
		O Yes						
		○ No						
		* 4. What ty	pe of in	terview v	vould yo	u prefer?	* ** ***	
		O In perso	n					
		O Virtual					* * *	
		O Virtual v	vith option	n of in-per	rson			
		* 5. How lik to prepare f 5, From Le being most	or your ft to righ	interviev	v if provi	ded? (Sc	ale: 1-	
		Program Website	0	0	0	0	0	
		Virtual Open House	0	0	0	0	0	
	https://www.surveymonke	ey.com/r/9Y8F7XS						2/7
E	GURE 6: Qu	octionnoise						
	estions 3, 4, and 5							
Qu	103110113 0, 4, and 0							

0/7/22, 10:23 AM	Interviews: Yay or Nay-A cr	oss sectional	Quality Improv	rement project a	aimed to improv	re the residency int	erview process at SU	Ν
	Other internet sources	0	0	0	0	0		
	Speaking to past/current residents	0	0	0	0	0		
	Other (please sp	ecify)						
	interview pro being unimpo							
	of faculty History of the program		0	0	0	0		
	Providing strengths of each training site	0	0	0	0	0		
	Providing weakness of each training site	0	,0	0	0	0		
	Media/virtual tour of the training sites	0	0	0	0	0		
	Resident interaction	0	0	0	0	0		
	and Q/A time							
https://www.surveymonke								3/7

FIGURE 7: Questionnaire

Question 6.

	10/7/22, 10:23 AM	Interviews: Yay or Nay-A cross	s sectional C	Quality Improver	ment project ai	med to improv	e the residency interview process at SUN
		Resident trajectory and opportunity after residency	0	0	0	0	0
		Subspeciality offers	0	0	0	0	0
		Research opportunity	0	0	0	0	0
		Faculty Q/A	0	0	0	0	0
		Work-life Balance	0	0	0	0	0
		and 5 being Exc	cellent)				
		Pre-interview	0	0	0	0	0
		Communication	0	0		O	· ·
		Introduction of the Downstate Program	0		0	0	0
		Interview with the faculty	0	0	0	0	0
		Resident interaction and Q/A time	0	0	0	0	0
		Providing strengths of each training site	0	0	0	0	0
	https://www.surveymonke	oy.com/r/9Y8F7XS					4:7
FI	GURE 8: Qu	ıestionnaire					
	estion 7	-					

10/7/22, 10:23 AM	Interviews: Yay or Nay-A cross	sectional Qu	ality Improvem	ent project air	ned to improve	the residency interview process at SUN
	Providing weakness of each training site	\circ	0	0	0	0
	Information regarding fellowship opportunities	0	0	0	0	0
	Information regarding different Tracks offered	0	0	0	0	0
	Information regarding Work-life Balance	0	0	0	0	0
	Time allotted for interview	0	0	0	0	0
	* 8. What steps of interview experi			improve	the vir	tual
	☐ Improve pre-i	nterviev	w commu	nication a	nd inforn	nation
	Provide information interview day		about you	r intervie	wer prior	to the
	☐ Improve facu	lty inter	action			
	Provide addit	ional res	sident inte	raction		
	Include additi	onal inf	formation	about tra	cks and p	rogram
	Add a Virtual	hospita	l tour			
https://www.surveymonke	ey.com/r/9Y8F7XS					5/7
a wholikhutwanyana wa mu-						
FIGURE 9: Qu	ıestionnaire					
Question 8.						

Add a pre or post interview virtual happy hour with residents Scheduling additional faculty interviews during the day Other (please specify)	IN
residents Scheduling additional faculty interviews during the day Other (please specify) * 9. How likely are you to recommend our program to your juniors for the next match cycle? (Scale: 1-5, from left to right-1 being unlikely and 5 very likely,3-indifferent) * 10. Did you face technical difficulties during your interview? Yes No	
residents Scheduling additional faculty interviews during the day Other (please specify) * 9. How likely are you to recommend our program to your juniors for the next match cycle? (Scale: 1-5, from left to right-1 being unlikely and 5 very likely,3-indifferent) * 10. Did you face technical difficulties during your interview? Yes No	
* 9. How likely are you to recommend our program to your juniors for the next match cycle? (Scale: 1-5, from left to right-1 being unlikely and 5 very likely,3-indifferent) * 10. Did you face technical difficulties during your interview? Yes No No	
* 9. How likely are you to recommend our program to your juniors for the next match cycle? (Scale: 1-5, from left to right-1 being unlikely and 5 very likely,3-indifferent) * 10. Did you face technical difficulties during your interview? Yes No No	
* 9. How likely are you to recommend our program to your juniors for the next match cycle? (Scale: 1-5, from left to right-1 being unlikely and 5 very likely,3-indifferent) * 10. Did you face technical difficulties during your interview? Yes No No	
* 9. How likely are you to recommend our program to your juniors for the next match cycle? (Scale: 1-5, from left to right-1 being unlikely and 5 very likely,3-indifferent) * 10. Did you face technical difficulties during your interview? Yes No No	
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your juniors for the next match cycle? (Scale: 1-5, from left to right-1 being unlikely and 5 very likely,3-indifferent) * 10. Did you face technical difficulties during your interview? Yes No No	
interview? O Yes No 11. If yes, to the question above please explain what	
interview? O Yes No 11. If yes, to the question above please explain what	
○ No 11. If yes, to the question above please explain what	
11. If yes, to the question above please explain what	
Done	
Powered by SurveyMonkey	
https://www.surveymonkey.com/r/9Y8F7XS	6/7

FIGURE 10: Questionnaire

Questions 9, 10, and 11.

Additional Information

Disclosures

Human subjects: Consent was obtained or waived by all participants in this study. SUNY Downstate IRB & Privacy Board issued approval 1829827-1. This project does not meet the definition of Research as defined by applicable federal regulations. Therefore, Downstate IRB approval is notv required. Animal subjects: All authors have confirmed that this study did not involve animal subjects or tissue. Conflicts of interest: In compliance with the ICMJE uniform disclosure form, all authors declare the following: Payment/services info: All authors have declared that no financial support was received from any organization for the submitted work. Financial relationships: All authors have declared that they have no financial relationships at present or within the previous three years with any organizations that might have an interest in the submitted work. Other relationships: All authors have declared that there are no other relationships or activities that could appear to have influenced the submitted work.

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