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UNDERSTANDING REASONS FOR ELECTING GAP YEARS BETWEEN UNDERGRADUATE EDUCATION AND MEDICAL SCHOOL AND THE IMPACT OF GAP YEARS ON THE STUDENT EXPERIENCE OF MEDICAL EDUCATION

by

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A thesis submitted in partial fulfillment of the requirements for the Honors in the Major Program in Biomedical Sciences in the College of Medicine and in the Burnett Honors College at the University of Central Florida

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ABSTRACT

Gap years have grown in popularity among many students attempting to go to medical school in recent years. According to the Association of American Medical Colleges (AAMC), more than half of matriculated students now have taken time off between their undergraduate studies and medical school]. While many claim benefits to taking gap years, research on the impacts of these experiences on medical students is largely nonexistent. This study aims to qualitatively analyze the gap year phenomena and its impacts on medical students through semi-structured interviews conducted at the University of Central Florida College of Medicine. Through these interviews, the researchers collected in-depth responses that were thematically analyzed through a qualitative research methodology. Emergent themes (adaptability, professional identity formation, resilience, refocusing of goals, "real world" experience, reinforcement of motivation) were found which offer insight into the reasons and motivations for electing gap years, and how medical students view the impact of their gap year experiences.



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INTRODUCTION

In recent years, it has become increasingly common for students to elect a gap year, or several, between college and medical school. Defined as a period of time "which an individual takes 'out' of formal education, training, or the workforce where that time sits in the context of a longer term career trajectory," gap years manifest in various forms2. The Association of American Medical Colleges (AAMC) recognizes taking additional coursework and strengthening GPAs, studying for the MCAT, and taking time for reflection and rejuvenation as some of the common uses of gap years. Furthermore, many students take this time to participate in structured activities such as volunteer tourism, part-time or full-time work in health care delivery, as well as parttime or full-time work in non-medical disciplines3. Other students elect to take gap years to participate in unstructured activities including leisure travel and relaxation activities. Yet still, many students become "gappers" due to unsuccessful medical school application attempts. Regardless, all types of gappers have in common the 'gap' between their undergraduate and medical educations during which time they participated in experiences not, generally, afforded to traditional medical school applicants. A quick internet search on medical school gap years yields a high volume of blog posts and personal testimonies of students who have participated in gap year activities. However, research looking at gap years in relation to a medical education is scarce and large-scale studies have not been conducted. Undoubtedly, there is great interest amongst educators and students alike of how gap year experiences translate to student outcomes in medical school, and what motivates or predisposes students to elect them in the first place.



A study by Birch and Miller attempted to analyze the determinants of electing a gap year between high school and university and found that students with lower academic achievements in high school were more likely to defer their undergraduate studies. Conversely, students with higher academic achievement levels, as measured by high school exam scores and university entrance exams, were less likely to defer an acceptance to a university. The study also found students living in rural areas to be more likely to take gap years, and older students less likely to take a similar break. They also reported that gappers earned higher grades in university, with stronger relationships and larger gains reported for students on the lower end of the grades distribution in high school. These findings suggest some tangible benefits of gap years at the university level, but its basis in arbitrary markers misses out on capturing the essence of motivation behind these decisions4.

Another study by the University of Sydney attempted to deconstruct the gap year while analyzing the academic profiles of university students who participated in gap year experiences. The researchers found that uncertainty regarding post-high school studies and lower academic motivation predicted an inclination towards electing a gap year, where lower academic performance and lower motivation predicted the uncertainty. They further found that gap year experiences were positively correlated with and predicted academic motivation during university3. Assessing gap years in the context of motivational factors, both before and after participation, arguably provides a richer understanding of the phenomenon's impact.

The value of gap year experiences has further been assessed through their impacts on the career decision-making process, as indicated in a case study designed by Coetzee and Bester. This



qualitative study, framed in a constructivist-interpretivist model, utilized a hermeneutic and dialogical approach to understand career development in South Africa, recognizing that many cultural and social perspectives would lend to this development. By using this model, they aimed to contextualize the personal factors and experiences of gap year students in relation to certain career development theories. The study showed that in regard to career development and the career decision-making process, the primary value in a gap year experience may be found in the extra time it gave to gap year students for finalizing career decisions and the personal growth lent by the experiences. Personal growth as result of a gap year experience is itself part of a complex learning process enjoined with moral and intellectual development. O'Shea's research showed that delaying higher education, particularly for involvement in community, social, or volunteer work, allowed students to make "significant gains in personal, civic, moral, and intellectual development." They further indicate these gains may help students take "full advantage of their university experiences."

Although gap years have been studied at other academic levels, there is a gap in the research when it comes to the impact of gap years on medical students and medical education. Medical school is a demanding and unique form of higher education that is seeing increasing diversity in the profile of applicants and their experiences. The term "nontraditional student" is generally used to refer to any type of student coming into medical school with some sort of unconventional academic background or delay in starting school due to extensive 'other' experience following completion of an undergraduate degree. As many do, Jauhar claims they "bring maturity, diversity, broader perspectives, [and] 'life experience'7." Certainly, it is becoming more common for students to apply to medical school with such experiences. According to the AAMC, more

than 59.9% of matriculating medical students indicated a gap of at least one year between college graduation and matriculation into medical school in the 2015 AAMC Matriculation Student Questionnaire1.

A study conducted at the University of Texas Medical School at Houston in 1987 attempted to examine whether there were any significant differences in the performance of students accepted through the traditional application process and those who were initially rejected. This was due to the state legislature changing the class size of 150 to 200 first-year students in 1979 which required the admission committee to select 50 additional students from the applicant pool who were previously interviewed but not chosen. Finding no meaningful differences between the two groups, the study's emphasis fell on the interview process and its inability to adequately predict future performance of medical school applicants in school and post-graduation. The study makes an important point: "There are no generally accepted criteria for identification of the 'good physician,' nor are there valid predictors of effective performances." This indicates the difficulty with medical education research, where the few attempts to predict success of students based on differential factors relating to admission fall short of significant findings. There is simply no conclusive way of determining what makes a "good" student and a "good" doctor.

This study aims to provide new perspectives on the experiences of gap year students and the impacts these experiences have on them in medical school. It will attempt to use principles derived from a contemporary qualitative methodology known as interpretive phenomenological analysis (IPA), based in theories of phenomenology, hermeneutics, and idiography. Where-in, phenomenology refers to the "study of human experience and the way in which things perceived



as they appear to consciousness," and hermeneutics refers to the "practice or art of interpretation." Idiography refers to the "concern for individuality and a commitment to a rigorous finely-textured analysis of contingent, unique, and often subjective phenomena9." By studying the gap year phenomena with these theoretical orientations, this study aims to interpret the meaning gappers attach to their experiences by allowing them to explore their experiences through their own thoughts and feelings. Since the researcher involved with this study is themselves a pre-medical student inclined to take a gap year, meanings attributed to the responses of gappers interviewed in this study are further focused and contextualized from this perspective. As Noon confers, through analyzing individual experiences, a richer understanding for the thoughts, motivations, and behaviors of medical school gap year students can be offered9.



METHODS

Research Design

This study aimed to understand the impacts of gap years on medical students by analyzing their perceptions of their experiences and the motivations that led them to elect the non-traditional option. This was completed through semi-structured interviews of non-traditional medical students who had taken time off between college and medical school. As was described previously, the study used a qualitative methodology to uncover a richer understanding of the topic.

Semi-structured interviews of medical students who took a gap year(s) were conducted over virtual Zoom call to collect the qualitative data necessary for data analysis. These interviews employed elements of IPA, discussed prior, where the aim was to interpret students, interpreting their own experiences9. Interviews were roughly split in two sections for organization purposes, with the first half of the interview asking questions pertaining to the motivations and reasons for electing gap years and the second half pertaining to the perceived benefits of these gap year(s) in medical school. Questions were structured and presented in a manner that allowed interviewees to explore their experiences in depth and offer rich responses that offered multiple angles at the issues and topics at hand. A select few interview questions formed the basis of every interview and are tabulated in the table below (Table 1). These questions were used to jumpstart conversations while various follow-up questions, comments, and sub-conversation topics were used to further conversations and garner further data from respondents.



Table 1

Research Question	Interview Structure/Questions
What are the main	Rapport building:
motivations or reasons	Self-disclosure of interviewer
that students elect to	2011 0100100010 01 111011 110 11 01
take gap years?	Where did you do your undergraduate degree and
813	what was your major?
	· · · · · · · · · · · · · · · · · · ·
	What activities were you involved in during your gap
	year(s) between undergraduate and medical school?
	Why did you decide to do those activities in
	particular during your gap year?
	When did you first think about doing a gap year?
What were the perceived	What year are you in? Can you give me a quick
benefits (if any) of	overview of what kind of things you have done so far
taking a gap year prior	in the MD program? Extracurriculars?
to entering medical	T 1 / 1 / 1'1
school?	In what ways do your think your gap year
	experiences helped to prepare you for medical school?
	SCHOOL?
	Are there specific experiences that made some parts
	of the curriculum easier?
	- 52 312 500112 500141.
	Do you think skills and experiences from your gap
	year have helped you become, or relate in any way
	to, what Dean German describes as "The Good
	Doctor?"
	Do your gap year experience(s) relate in anyway to
	longer term career goals?
	longer term career goals.



Participants and Interviews

All participants for this study were volunteers recruited from the University of Central Florida College of Medicine who met the general requirements of having taken a gap year(s) prior to matriculating, regardless of circumstance. The aim was to recruit a diverse range of students representing both junior and senior students throughout the MD program at UCF COM. 9 participants were recruited for this study near the anticipated and designated maximum of 10 respondents through a recruitment email sent out to all students as well as a Facebook post made in the UCF COM Facebook group. Each respondent was contacted to schedule a virtual interview, which were then completed individually in one-on-on sessions via Zoom calls, not exceeding 60 minutes. The interviews were audio recorded by a built-in function, transcribed verbatim, and deidentified to ensure anonymity of respondents.

Data Analysis

Data were analyzed through QDA Miner software in where codes were assigned to singular incidences in the data following principles of conceptual abstraction. The data were broken down, analyzed for core ideas, and assigned codes using descriptions derived from the data as well as interpretations of the researcher. These were then compared across all transcripts to determine similarities and/or differences, as well as combined to construct emerging themes. Using QDA Miner's code analysis function, several pseudo-quantitative values such as coding frequencies were also determined. Only one researcher completed this analysis procedure.



RESULTS

Of the 9 respondents, 2 were first year medical students, 3 were second year students, 1 was a third year student, and 3 were fourth year students. Furthermore, 6 out of 9 students had previously applied to medical schools and been rejected prior to taking their first gap year(s). 6 students labelled their gap years as "forced", while 3 students elected to take a gap year(s) by choice. Only 4 students were pre-med throughout college, while 5 students started in different majors or with different career outlooks. All students were STEM majors throughout college. Five students were solely interested in medical school near the time of their graduation from college, while 4 students were considering applying to more research-focused programs such as PhD, MD/PhD, and Masters programs. Most students, 7, took 2 gap years, 1 took 3 gap years, and 1 took a single gap year before matriculating into the MD program at UCF.

Every student engaged in common activities required of pre-medical students such as clinical shadowing of physicians, community service and volunteering, as well as research during their time in their undergraduate programs. However, this was very variable with some students having extensive experience in one or more of these areas and others only having minimal experience. Overall, most students (6) felt their medical school applications could use improvement, particularly in the area of clinical experience, but only 4 students cited this as a reason to elect taking a gap year. Four students spent one or more of their gap years working in a non-clinical job, such as an office clerk or lab technician, while 4 students spent one or more of their gap years as a medical scribe. Six students engaged in clinical activities during their gap years, including 2 students working non-clinical jobs who participated in shadowing on the side.



Six students also engaged in service-based activities during their gap years. Five students explicitly reference experiencing burn-out during college, and 4 cite a motivation to take time off from school before continuing with medical school.

Several themes regarding the question of benefits perceived from taking a gap year were gathered from this data, as tabulated in the table below (Table 2).

Table 2

Themes	Quotes
Adaptability to change & failure	"roll with it. You can't really, you know, complain about it too much. You can just be like 'oh [expletive removed], well that kind of sucks.' But you know, you just got to keep going so."
	"The people who had taken gap years and are used to changes of plans and, you know, people just being rude or people not doing this or not doing that. You know, they're like, 'oh, okay. That's the change, cool we can work with it."
Professional identity formation and understanding of role	"You're not the most important one anymorethe patient is and taking care of the patient is more important than your learningand you are working as a team a lot more and you have to figure out what your roles are in that team" "going out into the real world and you're practicing and you're making a difference, you're the moving piece in the puzzleI think it gives you more of a sense of camaraderie"
Understanding the "real world"	"looking back it was probably one of the most influential experiences for me, you know, interacting with people that were older than me, people from other countries, people that had different, you know, goals.'



	"it's a great feeling knowing I know stuff. That kinda all goes out the window when you enter the real worldyou're in a new field, instead of answering questions, now you've got to use your knowledge to create something and your deliverables could be as simple as a bar graphbut now you have consequences."
Refocusing of goals	"students, myself included, that took gap years. I feel like we try to connect with patients more. We realize that there's a bigger emphasis on connecting with patients, being a physician for the patients"
	"Everyone's pretty much going to be a doctorYou're going to get there. So then the question then our next goal kind of refocuses to well if everyone's going to be a doctor, then I want to be the best doctor I can be"
Resiliency, burnout, and stress management	"so if I had not decided to take a gap year and I had gone ahead with like matriculating into medical school I would not have had any time to decompress and so I would have carried all of that stress and anxiety and tension from undergrad over"
	"once you've come to experience the real world and you've experience real world stressors, then the stress of school, not that it's not stressful, but you just learn to deal with it more."
Reinforcement of motivation for medical school	"it just helps you reset and figure out what you want to do with your life and really like, cause I feel school's just really 'go go go go go go go go. Like you don't have time to stop and think, like is this what I want"
	"doing a job that wasn't medicine kind of made me understand that I need to go into medicine cause I can't be the kind of person that sits in a cubicle. I went crazy."



Disadvantage upon return to academic life	"I'd say I was definitely behind my classmates in just like studying skills and I'll be honest, I didn't want to study when I got to school"
	"Since I took three [gap years], I wasn't exactly prepared for the amount of information that was coming at me so fast, but you adapt fairly quickly"

An extensive breakdown of the coding results can be found in APPENDIX A.



DISCUSSION

This study employed a two-prong approach to gathering insight on the gap year phenomena that is growing more common in pre-medical spheres and medical school culture. The first question in this studied aimed to determine whether any themes could be found across the motivations and reasons for taking gap years. With a small sample size of 9 respondents, all selected from the same institution, these results are indeed not representative of the landscape of medical students across the country— nor are they meant to be. Among the 9 students we interviewed at the University of Central Florida, we found that the majority of them did not take a gap year by choice, meaning these experiences were not planned ahead and were instead forced. Most of the students studied here-in found themselves taking gap years after unsuccessful medical school application attempts. Some of these students engaged in activities such as medical scribing to gain more clinical experience they felt, or were explicitly told, they were lacking in college, while others decided to get involved with research instead. Furthermore, a couple students graduated college without applying to medical school and instead were looking to go into research-based graduate programs before deciding to apply to medical school in their gap year. Regardless of the reason, the unifying features observed across all students' experiences include a break from academics, opportunities to engage in experiences outside of school, and greater age. All students interviewed in this study were able to speak to the reality of having time to reflect, and each further demonstrated a high degree of self-reflective capacity through their responses. Despite the distribution in experiences, motivations, and outcomes, several themes were confidently elucidated from these responses.



Adaptability to change & failure

Across virtually all responses, one of the primary things students spoke about was the connection between their gap year experiences and a greater sense of adaptability in medical school. One after the other, students consistently referenced work-life experiences from their gap years in their personal assessments of their enhanced ability to withstand change and failures. Many even referenced the COVID-19 crisis as a present-day example of this, in where they spoke about how changes to curriculum and education delivery were easier for them to adapt to since they'd frequently been in positions previously in professional settings where last-minute changes occurred regularly with little notice. There was a consensus among the respondents that their peers who'd come straight to medical school from college were less willing to accept change, more likely to complain and pushback against school policies, and less likely to adapt to the implicit ambiguity they were already facing as students in medical school. Previous studies have shown that tolerance to ambiguity is a crucial competency for physicians to embody in their practice, and we already know that tolerance to ambiguity is found to be higher in older students in medical school10. Our subjects further demonstrated adaptability and enhanced tolerance to ambiguity through their managing of failed medical school application attempts and short-term uncertainty in their career outlooks as a result. This is also correlated with the overarching sense of humility seen among these students, largely stemming from failures, and especially medical school rejections. The students recounted that their enhanced sense of humility and humble attitude, has translated to ease in communicating with patients and better patient outcomes.



Professional identity formation and understanding of role

Kalet et. al exclaim professional identity formation as one of the major goals of medical education around the country in where the core beliefs and values of a physician are instilled in medical students11. The students interviewed in our study showed accelerated understanding of these values and demonstrated a greater focus on their professional identities as physicians, or physicians-in-training, as a result of their gap year experiences. Students were quick to speak about intangible benefits such as greater communication skills, teamwork skills, accountability and responsibility. Conversely, they were less concerned about outcompeting other students or performing the best academically. Instead, references to the idea of being a "physician for the patient" were made across the interviews, and students often spoke about how they were more concerned about being present for the patient and fulfilling their role on the patient care team versus their own learning. One student spoke to the concept of "camaraderie" learned in her gap year working in a research lab, which pretty well sums up many other responses that similarly spoke to realizations and sometimes rude awakenings through gap year experiences and failures that showed students they weren't the "focus" anymore. Students also often spoke about how they themselves observed other gappers to have a better grasp on the professional aspects of being a medical student, especially in 3rd and 4th year where students round with residents and attending physicians on clinical rotations. It was obvious through their responses that these students viewed and identified themselves as part of the patient care team before they identified as students.



Understanding the "real world"

Since these students were able to temporarily step out of the academic environment, they demonstrated a greater understanding of the "real world" in a professional sense. Through their own reflections, across almost all interviews, students pointed to their gap years as giving them an opportunity to see how the world works outside of school and the bubble of education. By gaining experience in various full-time and part-time roles, students picked up on and/or honed certain professional skills to a degree they believe would not have been possible, and was not possible, through similar involvement in college, albeit at a lower time commitment. Furthermore, students spoke highly about the diversity in perspectives they received through working with different people of different ages, backgrounds, and competencies, in their workplaces. Many students talked about having to work with difficult people, managing conflict, productivity, consequences, and more as being takeaways from their "real world" experiences that they are now able to apply in medical school, especially in 3rd and 4th years. Additionally, it is crucial for medical students and physicians to understand how the world functions outside of their spheres of influence, given that the people of the "real world"—with their "real world" stressors and concerns— are the ones they serve to treat. One student spoke about how her gap year experience working on a farm helped her to identify with other people her age who had directly gone off into careers after college, and thus gave her a better understanding of what caused them stress and was potentially impacting their health. The same student also spoke about working with farmers and how it gave her a better understanding of their health needs and legitimate health concerns that they were passing off as occupational hazards.



Refocusing of goals

Interviewees also spoke very much to the refocusing of their goals during and as a result of their gap years. They largely believed that their gap years helped them to better prioritize items and assign importance to things in their lives by providing them with the time to reflect about what was important to them in the long-run. Seen across all interviews was the idea that medical school only constituted a part of one's life and was not to fully consume one's life. Intertwined with perspectives gained from being in the real world and gaining life experiences, these students were better able to assign importance to tasks that needed to be completed in medical school as well as relationships, hobbies, and other external interests. The majority of these students spoke about how since they had already gotten into medical school and felt they were bound to be doctors, that they're goals refocused to how to become the "best doctor". By being able to better prioritize tasks, assign greater value to life outside of medicine, and stress less about medical school, students were then able to focus more on becoming a better patient-oriented doctor as they wished.

Resiliency, burnout, and stress management

Burnout was seen across the dataset with most students recalling that they experienced burnout during college. Then, one of the secondary motivations for students to take a gap year was to take a break from school because of the burnout they experienced. This gave students a chance to decompress, relax, and develop strategies for better stress management in medical school. While



still engaged in relatively stressful experiences and occupations during these gap years, students recalled that the stresses experienced there were different than those experienced in school. One student put it that in a job, your stresses largely stay at work and boundaries can be drawn between work and home, whereas school follows you everywhere and most especially into your home. Most students rather enjoyed the stresses of work and viewed them as challenges from which to learn. It was these responsibilities and experiences in their gap years, as well as having a break from school, that helped these students better manage stress in medical school. There was yet another consensus among students that their non-gapper peers tended to get stressed more and had greater difficulty bouncing back from challenges, whereas gappers found it easier to take confrontation, challenges, and setbacks in stride. This ability speaks to the resilience of these students, who attribute a good amount of this competency to their gap year experiences. While there is not much research on the resilience of medical students who've taken gap years, literature on resilience in medical school already finds that medical students with greater resilience levels have better quality of life and fare better in medical school and beyond12. This is a crucial competency that should receive more focus in medical education circles as psychological stress is already higher in medical students compared to their peers 13.



Reinforcement of motivation for medical school

Six out of 9 students stated that, at the time of their first application, they were not entirely sure if they could make a convincing argument for why they wanted to go to medical school. Some of these students also were exploring other career paths that were more research heavy, and it was their gap year that led them to ultimately switch to medicine. In the University of Sydney study mentioned earlier, which assessed gap years between high school and undergraduate studies, uncertainty regarding post-graduate plans was associated with a higher likelihood of electing a gap year3. Across the dataset, we saw that students solidified and reinforced their motivations for going to medical school during their gap year experiences, even if medical school was always their plan. Some students found greater passion for medicine after they started scribing during their gap years, while other students found greater passion for medicine while working desk or research jobs and realizing how much they disliked those environments. This reinvigorated passion for medicine translates, once again, to better patient interactions and outcomes in medical school, as these students recall. Furthermore, many students claimed to know what they want to specialize in because of their gap year experiences, whether that was research in neuroscience that invigorated a passion for radiology and brain scans, or a scribing position with an oncologist. These motivations go even further, with all students having spoken about additional areas they would like to be involved in such as research, advocacy, or teaching, and directly relating those passions to experiences they had in their gap years.



Disadvantage upon return to academic life

Overall, every student interviewed expressed that there were no major benefits or disadvantages of taking gap years on academic performance specifically. Students did not find that their experiences helped better prepare them for the content of the curriculum, beyond some familiarity gained through research in certain fields. Students did feel that they were at a slight disadvantage having been out of academia and felt that their study skills were less sharp than students who had not taken a break between college and medical school. However, this disadvantage too was short-lived as most students cited their adaptability competency in helping them adapt rather quickly to being back in school. When speaking about the Focused Inquiry & Research Experience (FIRE) research project, a component of the UCF COM curriculum, students with extensive research experience in their gap years said that their involvement in those spaces did help them in being able to carry out their FIRE research project *in addition* to their regular schooling. Again, generally, the consensus among students was that most of the benefits of gap years manifested as intangible skills and competencies, including patient interface skills, maturity, empathy, and patience.

All the themes elucidated from across the interviews play into what we and the interviewees discuss to be "The Good Doctor", borrowing from the UCF COM tradition run by Dr. Deborah German, Dean of the College of Medicine, at each entering class' white coat ceremony. During this activity, new medical students entering the UCF COM are asked to share qualities they believe make up "The Good Doctor", and all terms are written on a blackboard at the front of the room. Participants in this study spoke to several qualities throughout their interviews that they



believe embody "The Good Doctor", including the following: humility, genuineness, resilience, honesty, patience, empathy, and maturity. While there is no way to define "The Good Doctor", in the context of this study, we bring together all the themes and qualities our respondents shared and demonstrated to us and put them forth towards "The Good Doctor". This because our respondents believe these qualities and experiences contribute to them becoming better doctors (Figure 1).

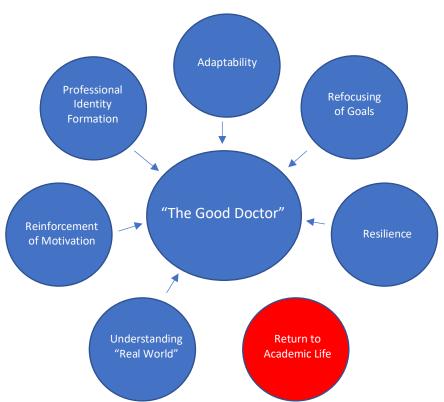


Figure 1

In their self-reflective capacities, these students have indicated growth and maturity through their gap years and attribute this growth, described in the themes above, to better outcomes in medical school, most especially at the physician-patient front. The students were careful to point out that the benefits they see today are due to an equal combination between taking time off, the

experiences they engaged in, as well as age, and that the removal of either one of those factors would result in different outcomes. They were also careful to add that the growth they've experienced may too be experienced by non-gappers in medical school, but that they've rather received a jumpstart which allows them to start reaping the benefits in medical school as opposed to later during residency. This does not diminish the impact of the maturity, diversity, broader perspectives, and life experience these students bring, as concurred by Jauhar?

Since this study was only conducted with 9 participants, and all from one institution, we must address the sampling bias that is inherently present herein. It is quite possible that the students who responded to our requests for the study are those who feel most strongly about their gap year experiences. Furthermore, perhaps with a larger pool of participants, we might see more varied answers regarding the motivations for taking gap years, and possibly more students who elected them by choice. Lastly, since all data was collected and analyzed by a pre-medical undergraduate student planning on taking his own gap year before matriculation, bias is present in the directionality and interpretation of data. According to next steps, we aim to have the coding process and data analysis redone by another researcher. This is a very exciting space and a lot of information remains to be discovered regarding gap years and medical education. In the future, we hope knowledge gained from this study, as well as future studies, shed more light on the impact of gap years on medical education outcomes. This could be helpful in improving premedical resources as well as revisiting the selection process.



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APPENDIX A

Coding Results

Category	Code	Description	Count	% Codes	Cases	% Cases
Undergraduate	Completed		3	0.5%	3	33.3%
Time	graduation					
	requirements					
	for degree					
	early					
Undergraduate	Engaged in		10	1.7%	8	88.9%
Time	pre-med					
	volunteering,					
	shadowing,					
	research					
	activities in					
	undergrad					
Undergraduate	Experienced		7	1.2%	5	55.6%
Time	burn-out in					
	undergrad					
Undergraduate	Initially was		7	1.2%	5	55.6%
Time	not pursuing					
	medicine					
	(research, PhD					
	focus, major					
	switch etc.)					
Undergraduate	Began seeing		2	0.3%	1	11.1%
Time	greater					
	interest in					
	medicine					
	through					
	activities in					
	undergrad					
Undergraduate	Did not feel		6	1.0%	5	55.6%
Time	they					
	adequately					
	participated in					
	shadowing,					
	volunteering,					
	other pre-					
	medical					
	requirements					
Undergraduate	A convincing		11	1.9%	6	66.7%
Time	interest					
	in/motivation					
	for medicine					
	was not					
	initially					
	present					
Motivations	Decision to		6	1.0%	6	66.7%
for Gap Year	take gap year					
	was ultimately					



	not by choice				
	(forced)				
Motivations	Considered a	3	0.5%	2	22.2%
for Gap Year	gap year but				
	did not feel				
	any particular				
	way about it				
Motivations	Motivated to	6	1.0%	4	44.4%
for Gap Year	take gap year				
	to improve				
	application/gai				
	n more				
	experience				
Motivations	Motivated to	3	0.5%	2	22.2%
for Gap Year	take gap year				
	to gain life				
	experience	 			
Motivations	Rejected from	6	1.0%	5	55.6%
for Gap Year	medical school				
	on first				
	application				
	attempt in				
	particular				
Motivations	Felt	13	2.2%	6	66.7%
for Gap Year	application				
•	needed				
	improvement,				
	particularly in				
	the area of				
	clinical				
	experience				
Motivations	Motivated to	5	0.8%	4	44.4%
for Gap Year	take some	-			
	time off from				
	academics				
Motivations	Motivated to	5	0.8%	3	33.3%
for Gap Year	gain real	-		•	33.370
	world/work				
	experience				
Motivations	Lack of	5	0.8%	3	33.3%
for Gap Year	convincing	J	3.370	J	33.370
.c. cap icai	motivation for				
	medical school				
	was a factor in				
	taking gap year				
Motivations	Explicitly	1	0.2%	1	11.1%
for Gap Year	wanted to go	1	0.2/0	1	11.1/0
ioi dap reai	directly into				
	medical school				
Motivations	Gap year was	5	0.8%	3	33.3%
for Gap Year	motivated by	Э	0.870	3	33.3%
ioi Gap teal	choice and				
	unrelated to a				
	failed				



	application				
	attempt				
Motivations	Saw an	4	0.7%	3	33.3%
for Gap Year	opportunity to				
	take a break				
	and take time				
	off for self				
Nature of Gap	Felt it was	4	0.7%	3	33.3%
Year	important to				
Experiences	demonstrate				
•	continued				
	involvement in				
	academics				
	during gap				
	year				
Nature of Gap	Worked in a	6	1.0%	4	44.4%
Year	non-clinical job	-		·	
Experiences	not intended				
2	for medical				
	school and not				
	used to build				
	lacking clinical				
	experience				
Nature of Gap	Involved with	7	1.2%	6	66.7%
Year	service based	,	1.270	O	00.770
Experiences	activities				
Lxperiences	during gap				
	year				
Nature of Gap	Involved with	4	0.7%	2	22.2%
	youth/teachin	4	0.7%	2	22.270
Year					
Experiences	g activities (youth groups,				
	tutoring,				
Natura of Car	mentoring)		1.00/	1	44.40/
Nature of Gap	Engaged in	6	1.0%	4	44.4%
Year	pre-med				
Experiences	activities such				
	as				
	volunteering,				
	shadowing,				
	research for				
	application				
Nature of Gap	Felt downcast	2	0.3%	2	22.2%
Year	after med				
Experiences	school				
	rejection				
Nature of Gap	Engaged in	5	0.8%	4	44.4%
Year	personal				
Experiences	projects out of				
	personal				
	interest and				
	not for med				
	school				



Nature of Gap	First gap year	2	0.3%	1	11.1%
Year	was due to				
Experiences	different				
	career choice				
	(such as				
	research, PhD)				
	- unrelated to				
	a medical				
	school				
	application				
	cycle		2.22/		44.40/
Nature of Gap	Specific gap	5	0.8%	4	44.4%
Year	year				
Experiences	experience				
	such as job				
	clarified				
	motivation and				
	interest in				
	medicine,				
	either by				
	disliking job or				
	feeling drawn				
	to clinical job				
Nature of Gap	Reflecting on	3	0.5%	3	33.3%
Year	purpose and	J	0.570	3	33.370
Experiences	human side of				
Experiences	medicine				
Nature of Gap	Gap year	4	0.7%	3	33.3%
Year	job/experience	4	0.770	3	33.370
	was a				
Experiences	continuation				
	of a job in				
	undegrad				
Nature of Gap	Was involved	4	0.7%	4	44.4%
Year	in clinical work				
Experiences	either through				
	job or on the				
	side				
Nature of Gap	Engaged in	1	0.2%	1	11.1%
Year	heavy bench				
Experiences	top style				
	research in gap				
	year				
Nature of Gap	Shadowing	2	0.3%	2	22.2%
Year	gave them	_		_	,-
Experiences	insights into				
=,,p=,,=,,o=5	what fields				
	they did and				
	did not like				
Natura of Car	Stresses the	2	0.3%	2	22.2%
Nature of Gap		<u> </u>	0.5%		ZZ.Z70
Year	impotance of				
Experiences	pursuing				
	experiences				
	that are				



	meaningful to				
	you personally				
lature of Gap	Believes some	1	0.2%	1	11.1%
ear	methods of				
Experiences	medical				
	schools				
	applying				
	objective				
	measures to				
	evaluate				
	students'				
	experiences				
	should cause				
	applicants				
	more offense				
eflecting of	Working with	9	1.5%	5	55.6%
iap Year	different			-	33.070
enefits/Gap	people of				
ear in Review	diverse				
III IICVICV	backgrounds				
eflecting of	Managing	14	2.4%	5	55.6%
ap Year	failure,	14	2.4/0	J	33.0%
enefits/Gap	difficulties,				
enems/Gap ear in Review	challenges,				
zai III Neview	and conflict				
offection of		18	2.10/	Г	FF C0/
eflecting of	Learned the	18	3.1%	5	55.6%
iap Year	importance of				
enefits/Gap	teamwork,				
ear in Review	teamwork				
	skills, reduced				
	roll as an				
	individual no				
	longer at the				
	center				
eflecting of	Understanding	7	1.2%	6	66.7%
iap Year	own role and				
enefits/Gap	gaining				
ear in Review	perspective of				
	the world				
eflecting of	Setting and	14	2.4%	4	44.4%
iap Year	management				
enefits/Gap	of life				
ear in Review	priorities,				
	understanding				
	the role of				
	medical school				
	in one's life				
eflecting of		6	1.0%	4	44.4%
_	·			•	,
III IICVICV					
enefits/Gap	of life priorities, understanding the role of medical school	6	1.0%	4	44.



Reflecting of	Greater	5	0.8%	2	22.2%
Gap Year	maturity				
Benefits/Gap	dictated by age				
Year in Review					
Reflecting of	Attributes	4	0.7%	2	22.2%
Gap Year	some benefits				
Benefits/Gap	to mere fact of				
Year in Review	having time				
	off/break				
	(often in				
	relation to				
	burn-out)				
Reflecting of	Observes	6	1.0%	5	55.6%
Gap Year	fellow gappers				
Benefits/Gap	are more				
Year in Review	relaxed and				
	stress-free				
	compared to				
	other students				
Reflecting of	Observes non	5	0.8%	2	22.2%
Gap Year	gappers have				
Benefits/Gap	difficulty				
Year in Review	understanding				
	role in medical				
	school				
Reflecting of	Learned things	19	3.2%	8	88.9%
Gap Year	are not always				
Benefits/Gap	in one's				
Year in Review	control and				
	you don't				
	always get				
	your way in life				
	(perspective,				
	adaptability,				
	stress				
	management)				
Reflecting of	Learned	10	1.7%	4	44.4%
Gap Year	accountability/				
Benefits/Gap	responsibility				
Year in Review					
Reflecting of	"Personal	 4	0.7%	4	44.4%
Gap Year	Growth"				
Benefits/Gap					
Year in Review					
Reflecting of	Learned	 2	0.3%	2	22.2%
Gap Year	leadership				
Benefits/Gap	skills				
Year in Review					
Reflecting of	Speaks to	5	0.8%	3	33.3%
Gap Year	different daily				
Benefits/Gap	obligation, and				
Year in Review	better				
	work/life				
	boundaries				
	found with job,				



					1
	but missing in				
	school				
Reflecting of	Attributes	4	0.7%	3	33.3%
Gap Year	benefits to				
Benefits/Gap	experience +				
Year in Review	time off				
Reflecting of	Lessons on and	5	0.8%	3	33.3%
Gap Year	strengthening				
Benefits/Gap	of humility				
Year in Review	,				
Reflecting of	Medical school	6	1.0%	3	33.3%
Gap Year	rejection is a				
Benefits/Gap	major example				
Year in Review	of failure, not				
rear in neview	getting own				
	way, and cause				
	for humility				
	strengthening				
Reflecting of	Different	7	1.2%	5	55.6%
Gap Year	experience	,	1.270	3	33.070
Benefits/Gap	found in full				
Year in Review	time job				
real in Neview	experience				
	and break				
	from academia				
Reflecting of	Taking time	1	0.2%	1	11.1%
Gap Year	outside of job	1	0.276	1	11.170
Benefits/Gap	to develop self				
Year in Review	and hobbies				
Reflecting of	Greater	10	1.7%	6	66.7%
Gap Year	adaptability to	10	1.770	U	00.776
Benefits/Gap	changes and				
Year in Review	unexpected				
real III Keview	outcomes				
Reflecting of	Is able to	4	0.7%	2	22.2%
Gap Year	observe	4	0.776	2	22.270
Benefits/Gap	differences				
Year in Review	with students				
real III Keview	who have not				
	taken gap years and can				
	identify them				
Reflecting of	Recharge after	3	0.5%	3	33.3%
Gap Year	burn-out	3	0.576	3	33.370
Benefits/Gap	Suili out				
Year in Review					
Reflecting of	Lowkey,	4	0.7%	4	44.4%
Gap Year	lowered ego,	7	0.770	7	77.4/0
Benefits/Gap	less worry				
Year in Review	about being				
real iii Neview	the "best"				
Reflecting of	Rejection and	1	0.2%	1	11.1%
Gap Year	experience	1	0.270	1	11.1/0
Benefits/Gap	combined,				
Year in Review	experience				
	C C C.		<u> </u>		1



_		T				
	was just as					
	important					
Reflecting of	Development		1	0.2%	1	11.1%
Gap Year	of time					
Benefits/Gap	management					
Year in Review	skills					
Reflecting of	Is able to		4	0.7%	4	44.4%
Gap Year	identify what is					
Benefits/Gap	important to					
Year in Review	them					
Reflecting of	Believes		1	0.2%	1	11.1%
Gap Year	mental health					
Benefits/Gap	and personal					
Year in Review	stability are					
Tear III Neview	crucial for					
	patient					
	outcomes, and					
	that mental					
	health					
	benefited by					
	taking break					
	after being					
	burnt out					
Reflecting of	Identity		1	0.2%	1	11.1%
Gap Year	formation in		-	0.270	_	11.170
Benefits/Gap	the real world					
Year in Review	and greater					
rear in neview	relatability					
	with those of					
	other					
	professions					
Reflecting of	Identifies		1	0.2%	1	11.1%
Gap Year	greater		-	0.270	_	11.170
Benefits/Gap	reflective					
Year in Review	capacity and					
Tear III Neview	space for					
	growth, areas					
	in which they					
	were					
	challenged and					
	grew					
	unexpectedly					
Reflecting of	Learning quick		3	0.5%	2	22.2%
Gap Year	and innovative]	0.570		22.2/0
Benefits/Gap	decision					
Year in Review	making skills					
Reflecting of	Believes it's		2	0.3%	1	11.1%
Gap Year	about life			0.376	1	11.1/0
Benefits/Gap	experience,					
Year in Review	and gap year					
i cai iii neview	gave them					
	extensive life					
	experience					
	that otherwise					
	would not					
	would HOL			1		



	have taken				
	place				1
Reasons for	Personal	8	1.4%	4	44.4%
Electing	interest with				
Specific Gap	associated				
Year	benefit of				
Experiences	diversifying				
	application				
Reasons for	Demonstrating	1	0.2%	1	11.1%
Electing	utilization of				
Specific Gap	time in				
Year	valuable ways				
Experiences					
Reasons for	Engaging in	5	0.8%	3	33.3%
Electing	pre-med				
Specific Gap	activities due				
Year	to explicit lack				
Experiences	in undergrad,				
	associated				
	with rejection				
	or reduced				
	chance of				
	acceptance				
Reasons for	Needed more	4	0.7%	2	22.2%
Electing	clinical				
Specific Gap	experience				
Year	specifically				
Experiences	. ,				
Involvement in	Decent	6	1.0%	6	66.7%
Medical School	involvement				
	with extra				
	curriculars in				
	medical school				
	(volunteering,				
	free clinics,				
	etc.)				
Involvement in	Participation in	2	0.3%	2	22.2%
Medical School	these activities				
	is unrelated to				
	gap year				
	experiences, or				
	a deviation				
	from gap year				
	experiences				
Involvement in	Rather	1	0.2%	1	11.1%
Medical School	uninvolved	_	3.270	-	11.170
	extra				
	curricularly in				
	medical school				
Involvement in	Observes that	1	0.2%	1	11.1%
Medical School	first year of	1	0.270	1	11.1/0
ivicultai Stilool	medical school				
	standardizes all students-				
	everyone		1		



	comes on the				
	same playing				
	field				
Negatives of	Felt at	6	1.0%	4	44.4%
Gap Year	disadvantage	· ·	1.070	·	11.170
Oup . Cu.	compared to				
	other students				
	for coming				
	back into				
	academic				
	environment				
	after lengthy				
	break				
Negatives of	However,	5	0.8%	4	44.4%
Gap Year	academic				
	disadvantage				
	was shortlived				
	or not overly				
	significant				
	(adaptability)				
Negatives of	Missing gap	2	0.3%	2	22.2%
Gap Year	year work				
	experience in				
	medical				
	school				
The Good	Sees	9	1.5%	7	77.8%
Doctor	medicine's				
	defining virtue				
	as a need to				
	help people				
	and give back			_	
The Good	Felt those	9	1.5%	6	66.7%
Doctor	experiences/sk				
	ills make them				
	better person				
	and thus				
The Count	better doctor		4.00/	4	44.40/
The Good	Patience/resili	6	1.0%	4	44.4%
Doctor	ency = better				
The Cood	doctor	7	1 20/	5	FF C0/
The Good	Experiences,	/	1.2%	5	55.6%
Doctor	time off, and				
	age have led to				
	greater				
	maturity, development				
	of better				
	person and				
	doctor				
The Good	Believes	2	0.3%	2	22.2%
Doctor	dealing with	_	0.5/0	_	22.2/0
	failure of				
	applying and				
	more				
	experiences of				



		ı			
	failure through				
	experiences,				
	make them				
	even better				
The Good	Observes	15	2.5%	6	66.7%
Doctor	greater ability				
	to interface				
	with patients				
The Good	Responsiblity	6	1.0%	5	55.6%
Doctor	and role on				
	team of care				
The Good	Sees greater	12	2.0%	7	77.8%
Doctor	benefits in				
	intangible				
	areas,				
	including				
	patience,				
	empathy,				
	maturity, over				
	curriculum				
	benefits and				
	speaks to				
	the"Good				
	Doctor"				
The Good	Doesn't worry	11	1.9%	6	66.7%
Doctor	about being		2.570	Ü	00.770
Doctor	best				
	academically,				
	worries about				
	being the best				
	doctor				
The Good	Refocusing/rei	10	1.7%	5	55.6%
Doctor	nforcing of	10	1.770	3	33.070
Doctor					
	goals as a				
TI 0 I	physician		4.00/		44.40/
The Good	Observes	6	1.0%	4	44.4%
Doctor	humility				
	gained through				
	dealing with				
	adversity				
	directly relates				
	to better				
	patient				
	interactions				
The Good	Believes	2	0.3%	1	11.1%
Doctor	greater				
	understanding				
	of different				
	types of				
	diversity can				
	help them				
	provide better				
	care to				
	patients				



The Good	Believes		1	0.2%	1	11.1%
Doctor	students who					
	come straight					
	out of college					
	are less skilled					
	in interfacing					
	with patients					
Benefits of	Feels gap		2	0.3%	1	11.1%
Gap Year	year(s) were					
Directly	most beneficial					
Related With	for 3rd/4th					
Medical School	years					
Benefits of	Observe no		2	0.3%	2	22.2%
Gap Year	gappers		_	0.075	_	
Directly	struggling with					
Related With	adapting to					
Medical School	unstructured/i					
Wiedical Scribbi	ndependent					
Danafita af	work			0.00/	2	22.20/
Benefits of	Understanding		5	0.8%	3	33.3%
Gap Year	that the					
Directly	patient comes					
Related With	first and					
Medical School	learning					
	second					
Benefits of	Understanding		4	0.7%	3	33.3%
Gap Year	the					
Directly	importance of					
Related With	"now" and less					
Medical School	concerned					
	about					
	becoming a					
	doctor since					
	that is all but					
	guaranteed					
Benefits of	Believes being		3	0.5%	3	33.3%
Gap Year	out of					
Directly	academia and					
Related With	learning to not					
Medical School	be the					
	spotlight is					
	very important					
Benefits of	Relates		1	0.2%	1	11.1%
Gap Year	professional					
Directly	interactions on					
Related With	the job to					
Medical School	enhanced					
	interactions					
	with					
	professionals					
	in medical					
	school					
	environment					
Benefits of	Gap year		4	0.7%	4	44.4%
Gap Year	experiences		_		,	, •
		1	1			



	1	1				
Directly	assisted with					
Related With	curriculum					
Medical School	(research/FIRE					
)					
Benefits of	Speaks to the		8	1.4%	4	44.4%
Gap Year	differences in					
Directly	expectations					
Related With	of gappers and					
Medical School	non gappers,					
	where non					
	gappers					
	struggle with					
	complaining/fe					
	el more					
	entitled.					
Benefits of	Observes non-		3	0.5%	2	22.2%
Gap Year	gappers					
Directly	struggling to					
Related With	adjust to a less					
Medical School	entitled					
	environment,					
	particularly					
	3rd/4th year					
Benefits of	Slight		5	0.8%	3	33.3%
Gap Year	introductory					
Directly	benefits with					
Related With	curriculum,					
Medical School	but					
	insignificant in					
	long-run					
Benefits of	Believes gap		4	0.7%	3	33.3%
Gap Year	year is not					
Directly	necessarily					
Related With	transformative					
Medical School	, but gives you					
	head start on					
	growth when					
	you are free					
	from school					
Benefits of	Speaks to head		1	0.2%	1	11.1%
Gap Year	start on					
Directly	growing pains,					
Related With	resulting in					
Medical School	already					
	strenuous med					
	school					
	experience to					
	be less jarring					
Benefits of	Reinvigorated,		11	1.9%	5	55.6%
Gap Year	solidified, and					
Directly	confirmed					
Related With	medicine as					
Medical School	field of choice					
	and the					
	motivation for					



	becoming a				
Benefits of	physician Doesn't	1	0.2%	1	11.1%
Gap Year	necessarily feel	1	0.276	1	11.170
Directly	any advantage				
Related With	towards				
Medical School	curriculum				
Benefits of	Clinical	1	0.2%	1	11.1%
Gap Year	knowledge	_	0.270	1	11.170
Directly	gained from				
Related With	gap year				
Medical School	experience				
iviedicai Scriooi	proved				
	relevant and				
	aided in				
	relating to				
	material				
Benefits of	Observed	2	0.3%	2	22.2%
Gap Year	other students		0.5/0	<u> </u>	22.2/0
Directly	without				
Related With	extensive				
Medical School	clinical				
	experience				
	struggle				
	through a				
	learning curve				
	when it came				
	to patient				
	interaction and				
	taking histories				
Benefits of	Experienced	2	0.3%	2	22.2%
Gap Year	same learning				
Directly	curve, just				
Related With	earlier in gap				
Medical School	year which				
	allowed them				
	to shine more				
	in medical				
	school where				
	others are now				
	in the learning				
	curve				
Benefits of	Has a	8	1.4%	4	44.4%
Gap Year	fundamentally				
Directly	stronger				
Related With	understanding				
Medical School	of the				
	expectations				
	and realities of				
	a practicing				
	physician				
Benefits of	Found	2	0.3%	2	22.2%
Gap Year	curriculum to				
Directly	largely be a				
	rehash of				



		1	1	T	T	1
Related With	undergraduate					
Medical School	major					
Benefits of	Did not find		1	0.2%	1	11.1%
Gap Year	the					
Directly	adjustment to					
Related With	be particularly					
Medical School	difficult and					
	found					
	transition to					
	be					
	comfortable as					
	soon as					
	expectations					
	are were					
	experienced					
Long Term	Long term		3	0.5%	2	22.2%
Goals &	career goals					
Relationship	are undecided					
With Gap Year	and do not					
	relate with gap					
	year					
	experiences					
Long Term	Sees future		4	0.7%	3	33.3%
Goals &	involvement					
Relationship	with service					
With Gap Year	and free clinic					
	work later on					
Long Term	Feels they		2	0.3%	2	22.2%
Goals &	have					
Relationship	adequately					
With Gap Year	served their					
	time in					
	research and					
	has no interest					
	in returning -					
	gap year					
	experience					
	negatively					
	reinforces a					
	previous					
	interest		_		_	
Long Term	Knows what		9	1.5%	5	55.6%
Goals &	they want to					
Relationship	specialize in					
With Gap Year	because of gap					
· -	year		-	0.504	_	22.22/
Long Term	Remains		3	0.5%	3	33.3%
Goals &	interested in					
Relationship	research and					
With Gap Year	would like to					
	be involved					
	again in the					
Long Torre	future		Α	0.70/	Α.	44.40/
Long Term	Gap year		4	0.7%	4	44.4%
Goals &	experiences	I	Î	I	I	I



Relationship With Gap Year	invigorate a desire to teach in the future				
Long Term Goals & Relationship With Gap Year	Gap year experiences inspire interest in advocay work	5	0.8%	3	33.3%

