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9 Discussion Points: Nigeria continues to battle severe physician shortages coupled with the brain-drain 10 phenomenon in developing Nations. As the Country explores solutions to reverse the trend, there may be a 11 need to target interns' experiences to increase the retention of local talent. #HouseOfficers #Experience 12 #BrainDrain

### 13

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### 1 ABSTRACT.

2 Nigeria faces a critical shortage of health workers, exacerbated by a growing of physician emigration. This study 3 explored the negative internship experiences that drive Nigerian interns to migrate abroad, with a focus on the 4 COVID-19 pandemic's impact. Interns cite excessive workload and burnout, lack of professional development 5 opportunities, challenging work environment, and mistreatment as key reasons for considering emigration. The 6 COVID-19 pandemic has exacerbated these challenges, leading to shortages of personal protective equipment, 7 limited screening services, and poor hazard allowances. The paper emphasizes the importance of adopting 8 policies that make destination countries attractive to emigrating interns. These includes creating a supportive 9 work environment with fair compensation, professional development opportunities, and adequate resources to 10 retain interns in the country. It also highlights the significance of addressing mistreatment and bullying in the 11 workplace. Collaboration between healthcare organizations, policy reforms, and increased healthcare financing 12 are suggested as potential strategies to mitigate the brain drain and ensure a sustainable healthcare system in 13 Nigeria. Improving internship conditions and addressing the shortcomings of managing the COVID-19 pandemic 14 are essential to retaining Nigerian doctors and combatting physician emigration. This requires a coordinated 15 effort from healthcare systems, policymakers, and stakeholders.

16

17 Key Words: Job satisfaction, Internship and Residency, Nigeria, Career Choice, Emigration and Immigration
 18 (Source: MeSH-NLM).

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## 1 INTRODUCTION.

Access to healthcare is a fundamental human right. However, Nigeria, among other under-resourced

- 3 countries, continues to grapple with healthcare infrastructure and personnel challenges, making it difficult to
- 4 achieve the Sustainable Development Goal (SDG) of universal health for all by 2030.<sup>1</sup> The low doctor-to-
- 5 patient ratio in Nigeria is one of the factors contributing to inadequate healthcare access, which affects 63% of
- 6 Nigerians.<sup>1</sup> This situation is worsened by a decreased interest in specialist training among interns, leading to
- healthcare worker shortages.<sup>2</sup> Additionally, many interns choose not to pursue medicine after completing their
   internships and show a growing preference to emigrate to developed countries.<sup>2,3</sup>
- 9

2

10 Nigerian doctors have various career options, including clinical practice, academia, research, medical 11 advisory, medical entrepreneurship, and nonclinical pursuits.<sup>4</sup> During the compulsory one-year internship after 12 graduation, they serve as first-contact physicians under supervision and decide on their career trajectories.<sup>2,4</sup>

- 13 Several studies have explored the factors influencing interns' specialty preferences to foster equitable
- 14 distribution across clinical expertise.<sup>2</sup>
- 15

16 International studies have highlighted the impact of internship experiences on career aspirations and 17 emigration decisions.<sup>3</sup> They underscore why addressing the brain drain requires a critical focus on internships, 18 a period where future specialists are nurtured and pivotal career decisions are made.<sup>2,3</sup> A recent study by 19 Akinwunmi et al. revealed that 79.5% of interns intended to pursue medical practice in foreign nations, and 20 over 41% planned to migrate within two years.<sup>5</sup> This coincides with the duration required to conclude their 21 internship training and Nigeria's one-year compulsory National Youth Service Scheme.<sup>5</sup> The Nigerian Medical 22 Association reported that 727 medical doctors trained in Nigeria relocated to the UK within six months 23 between December 2021 and May 2022, while 5600 doctors migrated over eight years. Unfortunately, this 24 trend is projected to exacerbate in the coming years, as medical stakeholders and the Nigerian Medical 25 Students Association (NiMSA) have opposed a bill that would mandate Nigerian-trained medical and dental 26 practitioners to practice in Nigeria for a minimum of five years before being granted a full license to migrate 27 abroad.<sup>6</sup> The Students' body has advised lawmakers to create a conducive environment and improve 28 remuneration rather than enforcing laws that infringe on fundamental human rights and discourage 29 prospective medical students.6

30

# 31 Negative Experiences of Interns

Adverse experiences during internships can profoundly impact doctors' personal and professional lives, making emigration more attractive.<sup>2,3</sup> The negative experiences that favour emigration are classified as push factors and summarized in Table 1. Interns often experience excessive workload and burnout due to long hours, understaffing, limited resources, and being delegated to perform non-core duties.<sup>3</sup> These experiences can lead to physical and mental exhaustion, decreased quality of life, and loss of empathy and depersonalization.<sup>3</sup> Nigeria's economic challenges have also led to increased financial constraints for doctors, making basic needs and support unaffordable.<sup>1,2</sup>

- 39
- Early career doctors in Nigeria cite a lack of professional development and growth opportunities, a challenging
   work environment, and limited access to necessary equipment and support systems as reasons for migrating.<sup>2</sup>



1 This trend contributes to brain drain and negatively impacts Nigeria's healthcare system.<sup>2</sup> The mistreatment of 2 younger doctors has been reported as having severe consequences on their emotional well-being, job 3 satisfaction, and professional development.<sup>7</sup> These can include verbal abuse, humiliation, intimidation, and 4 excessive criticism, eroding their self-esteem and confidence.<sup>7</sup> The impact might be more pronounced in 5 Interns due to their early career stage and lack of experience, leading to powerlessness and frustration. 6 Mistreatment and bullying also increase the risk of workplace violence against doctors, as public humiliation 7 devalues the physician before patients, caregivers and allied health workers.<sup>7</sup> Unsurprisingly, such 8 experiences, especially when severe, would naturally drive doctors to seek opportunities that offer a more 9 respectful, supportive, and enabling environment, often in other countries.<sup>1,4,7</sup> These multifarious challenges 10 discourage Nigerian doctors in the diaspora who are willing to return.

11

### 12 Justification for Targeting the Realities of Interns

The career choices of young interns significantly impact the healthcare system of Nigeria. This factor plays a crucial role in determining the distribution of specialized services and the replacement of retiring healthcare professionals.<sup>4</sup> Currently, nearly 50% of Nigerian doctors practice abroad, resulting in a considerable forfeiture in medical education investment, with the lost practice years having a multiplier effect.<sup>1</sup> Nigeria was among the nine countries that, as a group, lost two billion dollars between 2010 and 2017 due to brain drain.<sup>1</sup>

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19 It has been observed that Nigerian interns often migrate to Western countries, such as the United Kingdom, 20 the United States of America, and Canada, in search of better job opportunities, remuneration, and working 21 conditions.<sup>5,8</sup> Another reason is the promise of better job security and health insurance coverage.<sup>9</sup> However, 22 recent studies have shown a growing interest among Nigerian medical doctors seeking job opportunities in 23 Middle Eastern countries, such as Saudi Arabia, Qatar, and Oman.<sup>10</sup> Moreover, specialized surgical fields 24 have become increasingly popular among Nigerian medical practitioners in these destination countries.<sup>2</sup> The 25 countries where Nigerian medical doctors have shown interest have a defined doctor-to-patient ratio, 26 significantly reducing the likelihood of physician burnout, which is a significant reason for medical interns' 27 migration, particularly after the internship year experience.<sup>10</sup> 4 Furthermore, these countries share leadership 28 that supports and regulates universal healthcare, backed by efficient government funding and a robust 29 national health insurance scheme.<sup>3</sup> These countries also have cutting-edge research institutions, an efficient 30 nationalized health information system, and a preventive medicine approach that has influenced this trend.<sup>3</sup> 31 This combination of factors has made these countries an attractive destination for Nigerian medical 32 professionals seeking better opportunities.

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Given the substantial impact of interns' career choices on the healthcare system of Nigeria, it is justifiable to implement talent retention strategies that focus on interns. This approach maximizes the return on investment in medical education, ensures workforce stability, and secures future healthcare needs.<sup>1,3,4</sup> Improving internship conditions would also attract foreign-trained doctors to return for their housemanship, boosting the local workforce and increasing the likelihood of their retention.<sup>1</sup> Addressing their concerns and providing mentorships that support their growth would foster their commitment to the country's health system. Younger doctors are more adaptable to changing clinical landscapes, which is advantageous. Therefore, it is essential



to address their concerns and provide mentorship that supports their growth to foster their commitment to the

2 3

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## 4 Impact of COVID-19 Pandemic on Interns.

country's health system.

5 The COVID-19 pandemic has had a significant impact on the healthcare system of Nigeria, with essential health 6 workers, particularly doctors, being among the hardest hit. In the first week of the pandemic alone, 7 approximately 20 doctors in Nigeria succumbed to COVID-19 complications, underscoring the devastating effect 8 of the pandemic on the country's healthcare workforce.<sup>11</sup> . Before the pandemic, Nigeria's healthcare system 9 was already fragile, and the pandemic exacerbated the situation. While no specific data links the continuous 10 surge in internal migration to the COVID-19 pandemic, we speculate that the shift could be attributed to the 11 unfavorable experiences many healthcare workers endured, such as shortages of personal protective 12 equipment, limited screening services, and poor hazard allowances.<sup>11</sup> The lack of commitment to protecting 13 doctors encouraged intern migration due to inadequate hazard allowances below \$14, which is insufficient to 14 cover treatment for potential COVID-19 cases.<sup>12</sup> Furthermore, the pandemic led to a shortage of essential 15 healthcare workers, thereby increasing the burden on the few available and contributing to the migration 16 intentions of healthcare professionals within and outside the country.

17

## 18 Addressing the Challenges

19 To retain Nigerian doctors, healthcare systems and policymakers must prioritize creating a work environment

20 that fosters job satisfaction, fair compensation, and professional growth.<sup>2,3</sup> Table 1 summarizes

21 recommendations to address this challenge.

22

To combat physician emigration, it is crucial to consider implementing policies and pull factors similar to those of destination countries, as outlined in Table 1. Additionally, it is essential to identify and address any shortcomings in managing the COVID-19 pandemic to improve physician retention in the local healthcare system. To achieve this, the Nigerian Medical Association (NMA), Nigerian Association of Resident Doctors (NARD), Medical and Dental Council of Nigeria (MDCN), Federal Ministry of Health (FMoH), Federal and State Governments, and Postgraduate Medical Colleges must work together.

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These stakeholders should prioritize improving remuneration to reflect current economic realities, overhauling the medical curricula, and increasing the number of research institutions and laboratories.<sup>4</sup> . In addition; stakeholders can explore ways to align the postgraduate academic and fellowship routes to create a more seamless and effective transition for individuals pursuing higher education and professional development and to help increase career options for doctors.<sup>4</sup> A balanced rotation through all specialties has been suggested to help with the equitable distribution of specialties.<sup>2</sup>

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37 Addressing mistreatment and bullying, implementing anti-bullying policies, and fostering a positive work

38 environment can improve doctors' well-being and career satisfaction.<sup>7</sup> The MDCN must also enforce the Code

- 39 of Medical Ethics (COME) to discipline errant medical seniors who abuse their status in the workplace.
- 40



- 1 It is worth noting that Nigeria has yet to dedicate at least 15% of the annual national budget to healthcare.<sup>1</sup>
- 2 Most systemic challenges bedeviling healthcare can be solved through increased healthcare financing,
- 3 enhanced healthcare insurance coverage, efficient distribution of resources, and elimination of bureaucratic
- bottlenecks and corruption. These measures will ensure that healthcare systems remain sustainable, doctors
   are retained, and patients receive the best care.<sup>1,4</sup>
- 6

# 7 Conclusion

To establish sustainable healthcare in Africa's most populous country, increasing the number and distribution of doctors, specialist providers, and clinical researchers is imperative. To achieve this, evaluating career preferences and their determinants, like internship experience, can be a significant step in addressing the issue of brain drain and physician shortages. This assessment would enable stakeholders in the Ministry of Health and healthcare administrators to influence the career choices of interns, which, in turn, would benefit the local population and reduce economic losses from brain drain, thereby contributing towards establishing a robust healthcare system.

15

## 16 SUMMARY - ACCELERATING TRANSLATION

17 In this article titled "Mitigating Physician Emigration in Nigeria by Improving the Internship Experience," we argue 18 for the significance of positively influencing interns' experiences to address the issue of physician emigration in 19 Nigeria. The negative experiences faced by interns, including excessive workload, burnout, inadequate 20 remuneration, lack of professional development opportunities, mistreatment, and bullying, contribute 21 significantly to their desire to emigrate. Therefore, we propose implementing strategies to create a supportive 22 work environment that offers fair compensation, opportunities for professional growth, and access to necessary 23 resources, along with addressing mistreatment and bullying, improving salaries, overhauling medical curricula, 24 and enforcing the Code of Medical Ethics. By prioritizing the needs of interns, stakeholders can influence their 25 career choices and increase the likelihood of retaining them within the Nigerian healthcare system, reducing the 26 brain drain and addressing physician shortages. Additionally, it is crucial to increase healthcare financing, 27 improve health insurance coverage, and eliminate bureaucratic bottlenecks and corruption to improve the 28 healthcare system and retain doctors in Nigeria.



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# 1 TABLE

- 2 Table 1: Push and Pull Factors Influencing Physician from Selected Studies Emigration and
- 3 **Recommendation.**
- 4

Paper	Push Factors	Pull Factors	Negative	Recommendations
			experiences	
			during the	
			internship	
Ikhide	-Poor salaries	-Better working		-Legislative collaboration to
E. <sup>1</sup>	-Working conditions	conditions		fulfill 15% threshold of the
	-Inadequate medical	-Prospects of		National budget for health
	facilities	higher salaries		-Increased health
	-Poor infrastructure	-Prospects of		expenditure
		higher quality of		-Proper implementation of
		life		extant regulations guiding
				terms of service of doctors
				under government
				scholarships/
Ezeike	-Better pay	-Improvement in		-Improvement in working
C.et al. <sup>2</sup>	-Better working	working		conditions
	conditions	experiences		-Early career guidance
	-To acquire skills	-Improvement in		-Balanced exposure to all
	-Better living conditions	working		specialties
	-Dwindling economic	conditions		
	prospects of the country			
	-Declining standard of			
	medical education			
Cronin	-Burnout(emotional	-Positive	-Low staffing levels	-Reduction of non-core task
et al.3	exhaustion)	perception of	-High non-core task	allocation
	-Depersonalization	training	allocation	-Improvement in staffing
	-Negative perception of	-Choice/ desire	-Poor mentoring	levels
	training	to specialize	supports during	-Improvement of working
X	-Negative experience	-Age (Older	training	conditions
×	as an intern	interns)	-Poor level of	-Improvement in the
	-Opportunities for better	-Graduate entry	supervision during	reputation of the country's
	training abroad	doctors(those	internship	health system as a
	-Poor supervision of	who did	-Poor level of	destination choice
	postgraduate training	medicine as a	preparedness on	
	schemes	second degree)	starting work as an	
			intern	



-Preference for foreign-	-High levels of	
trained specialist	stress in the	
-Lengthy specialty	working	
training	environment	
-Unpredictable training	-High level of	
pathways and duration	bullying in the	
-Better opportunities for	workplace	
work-life balance		~
abroad.		

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