Brain Drain from Pakistan: Causes and Factors

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Abstract: The problem of "brain drain" is a serious and ongoing issue for many countries, including Pakistan. This article explores the complex web of causes behind the outflow of Pakistan's educated and skilled labor force, a trend with far-reaching effects on the country's economic growth. Many highly trained Pakistanis feel compelled to leave their homeland in search of economic opportunity because of the country’s poor economic climate. The need to leave your country because of political unrest, poor leadership, or fear for your safety only grows in intensity as a result. Constraints on access to excellent education and research opportunities are discussed as contributing factors to the brain drain from Pakistan. Emigration choices are heavily influenced by cultural and social variables such as family pressure and community norms. The study also explores the impact of government policies on brain drain patterns and the effect that globalization and connectivity have had in making overseas possibilities more accessible. It also delves into the sociocultural changes resulting from the loss of human capital that has plagued Pakistan due to this phenomenon. The paper indicates the policy suggestions and possible options for reducing brain drain in Pakistan in light of the data presented here.

Key Words: Brain drain, economic causes, Pakistan, Human Capital

Introduction

The "brain drain" is a critical problem that goes beyond borders and has effects worldwide (Dodani and LaPorte, 2005). It is a complex problem caused by the fact that people with a lot of skills and education leave their home countries in search of better job opportunities and a higher quality of life elsewhere. Pakistan is one of the many countries that are having trouble with this complicated movement trend. It is stuck in the paradox of its own ability. Pakistan is in the middle of South Asia and has a lot of different cultures, landscapes, and a past full of inventions and intelligent people. But it also loses many of its most innovative people, slowing down the country's growth. Not only is the movement of highly skilled Pakistanis to other countries a data trend, but it also shows how a country works, what it wants, and what problems it faces (Meo & Sultan, 2023). Identifying what’s causing this brain drain in Pakistan is not only a good mental challenge but also an important step in figuring out the country’s future. It is a trip that goes through the complicated territory of economic limitations, political uncertainty, differences in education, social influences, and policy imperatives, all of which work together to shape the futures of both people and the country as a whole.

Many things push bright Pakistanis to look for opportunities outside of their home country (Naqvi, 2020). Economic factors, which include things like few job opportunities, pay differences and economic insecurity, have been shown to be substantial reasons why people move. Political turmoil, problems with the government, and worries about safety all add to the choice to leave (Burrowes and Shannon, 2021). Also, Pakistan's education system, with its limited access to quality education and study possibilities, is a vital part of the story about the brain drain. Sociocultural factors, such as family standards and social pressures, also affect the decisions of people who decide to leave their country (Conger et al., 2010). In this age of globalization and increased communication, taking advantage of foreign chances is easier than ever.

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At the same time, government policies have strongly affected brain drain patterns and trends. All of these factors come together to show the path of Pakistan’s brain drain, drawing a complicated picture of the reasons and effects that go far beyond airports. Pakistan’s economy, social structure, and national character are all affected by the loss of its best and brightest people. When trained workers, researchers, and other creators leave, the country loses substantial human capital that can change the way it grows (Kenton, 2023). Also, it causes changes in social structures and family relationships that affect those left behind. As we start this path of discovery, this piece will try to untangle the complicated web of reasons and factors that lead to the brain drain in Pakistan. Beyond just research, it tries to give policy insights and suggestions. Its goal is to help people understand this situation better and, in the end, to help create a future where a country’s ability can be fully expressed on its own land. In this way, we hope to add to a more complex and well-informed conversation about Pakistan’s brain drain, which is not just seen as a problem but also as a chance to use the talents of Pakistan’s diaspora and keep its bright young people.

Objectives of the Study

▪ To identify and examine the diverse range of factors that motivate skilled individuals in Pakistan to emigrate.

Research Methodology

The research will be quantitative in nature. In this regard, secondary sources will be used to gather the data through research journal articles, governmental records, newspaper articles, and books. For qualitative research, thematic analysis will be used to identify recurring themes and narratives.

Significance of the Study

The study is significant as it explores a serious topic directly impacting the nation's growth and advancement. This study report offers valuable insights to policymakers, educational institutions, and healthcare organizations by revealing the brain drain’s root causes and contributing elements. It provides a strategic plan for making well-informed policies that would help create a more favorable climate for professionals to remain in Pakistan and contribute to its development. Furthermore, it tackles the economic, educational, and societal consequences, thereby opening up possibilities for improvements in these areas.

Literature Review

The majority of urban people belonging to the middle class begin their conversation with opinions on the unstable politics and abysmal economic situation in Pakistan. They were concerned about the youth exodus from Pakistan to the seemingly greener pastures of North America, Europe, Australia, and the Gulf (Chaudhry, 2023). However, before coming to any conclusions on this matter, it is necessary to take a more comprehensive look at the situation. To begin, the practice of Pakistanis migrating to other countries is not a recent development. According to figures provided by the Bureau of Emigration and Overseas Work, more than 10 million Pakistanis have sought work in other countries since 1971. Second, the numbers change from year to year, and there is no discernible pattern of a sharp increase over time. The number of Pakistanis leaving the country in search of work outside of the country decreased to 800,000 in 2022, compared to 946,571 in 2015 before the epidemic (Ebrahim, 2023). Thirdly, it is difficult to estimate the number of people leaving the country since many people leave the country illegally, using student visas or visas allowing permanent stay, respectively. Therefore, what is more pertinent to the discussion are not the numbers but instead the claims that Pakistan’s young make up the majority of individuals traveling overseas these days. "67 percent of Pakistani youngsters want to leave the country," according to PIDE economist Faheem Jahangir Khan. The trend of talent emigration is something that is being observed by a variety of different surveys and studies.

The youth of Pakistan will one day run the country (Ashraf et al., 2013). At a time when the populations of both Europe and China are becoming older, the youth bulge that we have here is a benefit, provided that these individuals can contribute to the growth and development of their own nation rather than servicing the societies of other countries. However, The truth is that students are desperately seeking scholarships...
to study in the United States of America, Australia, Europe, China, and East Asia. Because so few jobs are available in their home country, students already enrolled in institutions abroad are hesitant to return. Companies in the West offer attractive terms to get talented IT workers to work for them. Therefore, our political leadership and intelligentsia must investigate the factors that motivate young people to leave Pakistan and formulate public policies that incentivize young people to contribute to the nation’s economy (Lowell, 2019). The widespread unemployment problem in our country is one of the primary factors contributing to our younger population’s discontentment. Pakistan is home to about 200 educational institutions, many of which provide degrees in fields of study for which there is a shortage of employment opportunities in the market. After investing a significant amount of money in one's education, it is a highly unpleasant experience for a young person to be unable to find a well-paying job. Those fortunate enough to obtain work are often left dissatisfied by the pitiful wages offered by employers. According to Sarah Hosain, a professional who worked in Pakistan for several years but now lives and works in Austria, the work culture in Pakistan is rigorous and allows little opportunity for an excellent work–life balance, especially for working women (Husain, 2006). Young doctors are also interested in relocating overseas in search of higher wages and easier access to cutting-edge medical technology. According to research, a person who attended medical school in Pakistan and then resided in Australia observed that physicians in Pakistan are underpaid, overworked, and undervalued in comparison to their counterparts in the West, where they are paid sufficiently and get a contribution to a retirement fund. Some working professionals, like teachers and lecturers who teach at a prestigious institute in Pakistan, want to go outside of the country only in order to further their educational credentials (Fran, 2021). However, the mounting financial challenges paid professionals face in Pakistan and the restricted employment development possibilities in that country. The severe political polarisation that exists today, which is making the current economic crisis even worse, is the second factor that contributes to the dissatisfaction of today’s young people. This acrimonious political split has affected almost every family, especially the younger generation. The goal of today's young people to live lives that are respected, dignified, and prosperous is the third factor contributing to the rising disaffection of today’s youth. They want the same possibilities as everyone else and want the playing field to be level. To their dismay, they have discovered that the system does not function for them but rather just for a chosen few, also known as the elite.

So, what can be done to stop the loss of intellectual talent? To begin, the nation needs stable politics, an economic charter that binds political regimes to assure the continuity of economic policies, and an environment that makes it easy for investors, merchants, and manufacturers to do business in the nation. The second thing that should be a top priority is the development of new jobs. Because governments can only produce a limited number of employment, the private sector is the one that has the capacity to hire educated and semi-skilled young people. To better prepare students for jobs in industry and the information technology sector, the educational system needs to emphasize technical education and vocational training. Thirdly, we need all levels of our legal system to operate effectively. First and first, there must be an atmosphere in the nation that promotes fairness, equal opportunity, and dignity for all its citizens. The National Security Policy introduced the previous year offers a promising path ahead.

Causes of Brain Drain

Brain drain, or the emigration of skilled and educated people from one country to another, is a big problem in Pakistan. There are many reasons for this trend, many of which are linked and worsen the brain drain situation. In Pakistan, brain drain is mostly caused by the following reasons:

Economic Factors

Economic concerns are the primary catalyst for the brain drain phenomenon in Pakistan (Ume & Fiaz, 2018). The scarcity of employment openings in the country and the substantial income gaps between Pakistan and industrialized nations motivate highly proficient and educated individuals to pursue more favorable possibilities outside. The devaluation of currency, insufficient social welfare, economic instability, and a cumbersome tax structure also enhance the appeal of emigration since skilled individuals frequently believe that they may attain a superior quality of life and financial security by working in foreign nations. The economic difficulties of Pakistan, such as the lack of high-paying employment opportunities
and financial instabilities, persistently contribute to the exodus of its highly educated labor population (Mishra, 2023).

**Political Instability**
The presence of political instability in Pakistan is a major and complex factor contributing to the phenomenon of brain drain (Meo & Sultan, 2023). The nation has seen a tumultuous past characterized by numerous governmental transitions, power conflicts, and pervasive political corruption, resulting in an atmosphere of uncertainty and instability. These reasons prompt highly qualified individuals, such as physicians, engineers, and professors, to search for more stable and safe environments for their personal lives and jobs. They frequently believe that the constantly shifting political scenario could excessively impede their endeavors and contributions, and this lack of assurance motivates them to relocate in pursuit of nations with more stable political climates (Sajjad, 2011).

In addition, security concerns stemming from political instability, such as terrorism and criminality, might also discourage experts from remaining in the nation. The absence of personal security and anxieties for their families' welfare frequently significantly influence their move choices. The political instability in Pakistan leads to a brain drain, which worsens the country's socio-economic problems by causing a loss of qualified persons necessary for its progress. It is imperative to tackle political instability in order to retain skilled individuals and foster national development and stability.

**Lack of Research and Development Opportunities**
The absence of research and development (R&D) prospects serves as a significant factor contributing to the emigration of highly skilled individuals from Pakistan (Memon, 2023). This problem stems from a confluence of variables, encompassing insufficient government financing for research and development, inadequate research infrastructure, and a scarcity of research opportunities. The country's limited financial allocation for research and development initiatives hinders scientific and technical progress, leading highly educated workers to seek more well-equipped surroundings outside (World Bank, 2023). Furthermore, the lack of modern research facilities, advanced technology, and sufficient resources for creative work is a significant challenge for researchers to carry out relevant studies in Pakistan. The limited availability of secure research employment, both in academic and industrial sectors, also deters workers from pursuing careers in research and development inside their own country. The phenomenon of brain drain exacerbates the issue as students who pursue education abroad frequently choose to remain in foreign countries. In order to counteract this pattern, Pakistan should allocate more significant resources towards research and development, improve its research infrastructure, and facilitate partnerships with global specialists. By creating a conducive atmosphere for researchers, the country can promote their growth and enable them to make significant contributions to its scientific and technical advancement.

**Lack of Career Advancement**
One big reason people are leaving Pakistan is that they can't advance in their careers. People in the country often can't advance professionally or be successful because of things like favoritism, nepotism, and corruption in many areas (Mahar, 2020). This goes against the idea that highly skilled workers should be promoted and recognized based on their skills. Pakistan also often falls short in giving people the chances they need to get guidance, improve their skills, and be recognized, all of which are important for moving up in their careers. A lot of people in the country feel like their skills and knowledge aren't respected or rewarded enough, especially in areas that need specific knowledge and skills (Ejaz, 2023). So, they choose to leave for countries where their skills are more likely to be valued and awarded, giving them a chance to move up in their careers. To stop this brain drain, Pakistan needs to put an emphasis on a clear, merit-based system and spend money on professional development and promotion chances for its highly skilled workers so that it can keep them and use their skills.

**Family and Social Pressure**
People with smart ideas leave Pakistan because of strong family and social pressures. Individuals from many Pakistani households and groups are strongly encouraged to look for better chances abroad. This is
because it is seen as a sign of success and a way to brighten the future for one’s family. Families can have a big impact on people’s decisions to leave their home country because they think that opportunities abroad, especially in Western countries, will provide their children with better schooling, healthcare, and a higher standard of living (Dodani and LaPorte, 2005). Many highly skilled professionals leave Pakistan for better job chances abroad because of pressure from their families and communities to improve their socio-economic situation and quality of life. This is one cause of the brain drain in Pakistan. To solve this problem, we need a broad plan that encourages economic growth, education, and healthcare changes in the country itself. That way, people won’t have to leave their home country to meet their families' needs.

**Driving forces behind the Brain Drain**

Besides the causes mentioned above of brain drain from Pakistan, there are also some other driving forces behind it, which will be discussed below.

**Sociocultural Factors**

Sociocultural issues play a significant role in causing the brain drain from Pakistan. Within a society that places great importance on familial connections, individuals face considerable pressure to fulfill their family’s expectations and ensure a successful future. Migrating to Western nations, especially those with strong educational and professional prospects, is commonly seen as a way to meet these aspirations (Böhme, 2015). Attaining higher education, achieving job progress, and securing financial security in nations with robust economies and social structures are widely seen as symbols of success. Furthermore, working or studying in a foreign country is frequently linked to social status, and this view might motivate individuals to pursue chances abroad to enhance their social standing. The aspiration to offer their children access to top-tier education, healthcare, and an improved standard of living is a powerful incentive for numerous families, propelling them towards emigration. The Pakistani diaspora in Western nations has formed social networks that offer support, direction, and a sense of belonging, which makes migrating an attractive choice (Kokab et al., 2020). Moreover, the sense of protection and security in more politically stable situations overseas, particularly when compared to the security concerns faced by Pakistan, serves as a compelling incentive for people and families to seek asylum in foreign countries. In order to address this brain drain caused by sociocultural reasons, Pakistan has to establish an environment that provides similar possibilities and living circumstances while also cultivating a culture that promotes achievement inside its own boundaries.

**Globalization and Connectivity**

The phenomenon of brain drain from Pakistan has been significantly influenced by globalization and improved connectivity (Hassan & Abbas, 2023). With increasing global connectivity, individuals now have enhanced access to information on possibilities and lifestyles in foreign countries. The accessibility of worldwide travel and communication via the Internet has facilitated Pakistani professionals and students in their pursuit of opportunities in foreign nations. They are exposed to the enticing opportunities Western countries present, such as improved employment chances, top-notch education, and an elevated living level. There is intense competition in the global labor market, and individuals possessing specialized talents are highly sought after internationally, facilitating their ability to pursue career opportunities in foreign countries. In addition, globalization has enabled the establishment of diaspora groups, which provide a network of assistance and familiarity for persons moving from Pakistan (Tomlinson, 2012). The brain drain caused by globalization can have substantial economic and intellectual repercussions for Pakistan since the nation forfeits highly trained people who could otherwise make valuable contributions to its progress. To tackle this problem, it is necessary to enhance possibilities within Pakistan and also utilize the advantages of globalization to provide a conducive atmosphere that motivates individuals to remain in the country and actively contribute to its development.

**Government Policies**

Government policies can serve as a major catalyst for the emigration of highly skilled individuals from Pakistan, sometimes referred to as brain drain. If policies do not support economic growth, job creation,
and the retention of highly educated professionals, it might incentivize individuals to pursue better possibilities in other countries. Instances such as high taxes, intricate bureaucratic procedures, and onerous rules can deter entrepreneurial activities and hinder the development of jobs, leading experts to seek nations with a more advantageous business climate. Furthermore, inadequate allocation of resources towards research, development, and educational infrastructure hinders the expansion of these industries, hence impeding highly qualified persons from accessing acceptable job opportunities in Pakistan. Insufficient healthcare, social services, and social security systems might also compel persons to move in pursuit of an improved standard of living. Moreover, immigration rules that impose obstacles for highly talented individuals to get work visas or permanent residency in Pakistan might intensify the issue of brain drain (Tahir, 2023). In order to address this problem, the government should prioritize the implementation of policies that encourage economic expansion, innovation, and employment generation. Additionally, it is crucial to streamline administrative procedures and cultivate a conducive atmosphere that motivates professionals to remain in the nation and actively contribute to its progress.

Consequences of Brain Drain from Pakistan

The phenomenon of brain drain, which refers to the movement of highly trained and educated persons from Pakistan, has several effects that significantly affect the country's growth, economic, and social structure. Below is an elaborate analysis of the repercussions of brain drain from Pakistan:

The brain drain phenomenon in Pakistan has wide-ranging implications that greatly affect the country's progress, economy, and society. The primary consequence is the significant depletion of human resources. The departure of highly proficient and educated individuals drains the nation of their experience, information, and abilities, hindering technological advancement and innovation. This results in a significant dearth of skilled professionals in several industries, notably healthcare, engineering, and information technology, leading to insufficient service provision and restricted availability of specialized expertise. In addition, the exodus of researchers, scientists, and academics impedes research and development, hence impeding Pakistan's worldwide competitiveness and the possibility of scientific advancements. Within the field of education, the departure of persons with advanced levels of education, such as educators, results in a decrease in the standard of education. Similarly, the emigration of healthcare professionals has a negative effect on healthcare services, diminishing their quality and availability. From a demographic perspective, brain drain exacerbates disparities by causing a departure of younger, highly qualified persons, therefore placing more burden on social services and pension systems. Additionally, it leads to a decrease in foreign currency inflow due to the transfer of money moved outside, which has a negative impact on the economic stability and balance of payments of the country. From a social perspective, it cultivates a feeling of despair, reliance on financial support from elsewhere, and the dissatisfaction of witnessing friends pursue more promising prospects elsewhere. The departure of educated persons has a negative impact on political progress and governance by reducing the presence of knowledgeable citizens. Ultimately, although Pakistan experiences a loss of its highly qualified professionals, the nations they migrate to enjoy a "brain gain" as they receive educated and talented people who actively contribute to their own progress and advancement. To tackle these outcomes, it is imperative to implement extensive policy changes involving allocating resources towards education, research, and infrastructure. Additionally, it is crucial to take steps to enhance the business climate and foster innovation and entrepreneurship in Pakistan.

Recommendations

To effectively deal with the problem of brain drain from Pakistan, it is crucial to adopt a comprehensive strategy that addresses the root reasons and creates a conducive climate for retaining and using highly talented workers to contribute to the country’s progress. First and foremost, there should be a significant augmentation in spending on education, encompassing both basic schools and higher education institutions. This includes enhancing the caliber of education, furnishing cutting-edge infrastructure, and guaranteeing highly skilled educators to foster the potential of the nation's young generation. Furthermore, it is imperative to prioritize research and development, with the government augmenting financial resources for research endeavors and upgrading research infrastructure. Promoting innovation and scientific progress might contribute to the retention of scientific expertise in the nation.
governmental procedures and establishing a conducive business climate are essential for fostering entrepreneurship and facilitating employment growth.

Moreover, Pakistan ought to implement mechanisms that acknowledge and incentivize aptitude, not alone via monetary rewards but also by providing transparent pathways for professional growth and public acknowledgment. Allocating resources towards healthcare infrastructure, alongside enhancing working circumstances and providing incentives for healthcare experts, may effectively mitigate the scarcity of medical staff and bolster the quality of healthcare services. The establishment of political stability and effective governance is crucial in fostering an atmosphere of security and predictability, therefore mitigating political volatility that compels professionals to pursue stability in foreign countries. Enhancing intellectual property rights can foster innovation and entrepreneurship by affording professionals the assurance necessary to cultivate and execute their ideas. Facilitating entrepreneurship and fostering innovation may be achieved by providing opportunities for venture capital funding, mentorship programs, and access to incubators, therefore promoting a culture of innovation. Fostering collaboration among local and international experts and institutions may facilitate the sharing of information and expertise, therefore fostering the development of local professionals. It is crucial to revise immigration regulations in order to make it easier for qualified professionals to return and work in Pakistan. Additionally, it is important to establish appealing opportunities for Pakistanis abroad to contribute to the country's growth. Awareness campaigns should inform professionals about Pakistan’s prospects and expansion possibilities, empowering them to make well-informed choices about their jobs and future endeavors. Ultimately, the provision of financial incentives, such as tax advantages or programs that assist in repaying school loans, can effectively motivate professionals who have moved to come back and actively contribute to the progress and advancement of their home nation. By fully adopting these proposals, Pakistan can address the brain drain issue, maintain its intellectual capital, and create a more conducive climate for qualified individuals to contribute to the country's growth and development.

Conclusion
It is to be concluded that the occurrence of brain drain in Pakistan is an intricate matter influenced by various causes and variables. This study work has elucidated the primary factors, encompassing economic, political, social, and educational aspects, that serve as incentives for highly trained professionals and students to pursue improved prospects in foreign countries. The ramifications of brain drain have extensive effects, affecting Pakistan's human resources, economic expansion, innovation, and several areas of society. Given the importance of this issue, the study emphasizes the necessity for all-encompassing remedies. Policymakers should prioritize allocating resources toward education, research, and healthcare. Additionally, they should strive to provide a conducive atmosphere for businesses and actively encourage innovation and entrepreneurship. Reforms should also tackle the societal influences that force individuals to move. Pakistan may strive to reduce the brain drain and create an atmosphere that encourages highly qualified workers to remain and actively contribute to the nation's progress by adopting these suggestions. By doing this, the country may utilize its people resources to achieve long-lasting economic development and advancement, guaranteeing a more promising future for both its population and the whole nation.

References
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