An Exploratory Study Examining Barbadian Students' Knowledge and Awareness of Costs of University of the West Indies Education

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Abstract
This study explores Barbadian students’ knowledge/awareness on various facets of costs associated with their University of the West Indies (UWI) education and student perceptions of State funded education. The study was conducted subsequent to the announcement of UWI tuition fees which came into effect in September 2014. Ninety-three Faculty of Social Sciences (FSS) students participated in the study. The research highlighted that: (1) FSS students have serious gaps in knowledge regarding their UWI education costs, (2) many FSS students are motivated to work harder at their studies when studies are personally self-financed, (3) FSS students associate opportunity costs with lost income, lost time with family/friends, and lost leisure opportunities with their UWI studies, and (4) FSS students perceive that the Government of Barbados (GOBD) incurs an opportunity cost by financing UWI education. The paper concludes by discussing implications for policy and practice.

Keywords: University of the West Indies, Barbados, Students, Perceptions, Costs, Opportunity Costs, Education

1. Introduction
The ongoing debate over the last ten years about the increasing costs of tertiary education in Barbados, especially costs associated with University of the West Indies (UWI) education—and Government’s ability to sustain this cost—has met with a fair degree of criticism by the Barbados populace. Although some Barbadians acknowledge that perhaps the time has arrived for tertiary education to be self-financed by Barbadians desirous of pursuing UWI education, many Barbadians still hold the philosophical view that charging for tertiary education will create social inequity in Barbados and that the poor would be further disenfranchised. During the past two years, the debate on costs of UWI education has intensified considerably as a result of the Government’s announcement in August 2013 about payment of tuition fees by Barbadian students. In light of the media publicity that has been taking place on the cost of UWI education and its cost implications for Barbadian students, we felt that it was timely to conduct an exploratory study to gauge Barbadian student knowledge and awareness on costs associated with their UWI education.

Two fundamental considerations underpin our study on Barbadian student knowledge and awareness on costs associated with their University studies. The first pertains to the theoretical contribution of our study to the global body of literature on this topic. Previous research on this topic have been conducted using pre-university students and their parents rather than actual university students. Additionally, to the best of our knowledge, no published research exists on this topic from the Caribbean. Our study is therefore quite unique since it uses actual university students, and was conducted in a small developing country in the Caribbean region. Moreover, contrary to previous research, our students’ perceptions were assessed in an environment of low user fees since students have to pay only 20% of the full cost of their UWI education. Our second contribution pertains to policy and practice in the Barbadian society. Our research should be of interest to several stakeholder groups including UWI administration and the GOBD in crafting policies to educate Barbadians about the value of a tertiary education.
These considerations give rise to our 6 research questions (RQ):

RQ1 How knowledgeable are FSS Barbadian students’ about the cost of their UWI education?

RQ2 What are FSS Barbadian students’ perception regarding GOBD obligation to fund UWI education?

RQ3 To what extent are FSS Barbadian students motivated to work harder at their studies given the level of investment by GOBD in their UWI education?

RQ4 To what extent are FSS Barbadian students motivated to work harder at their studies if UWI education were personally self-financed?

RQ5 What are FSS Barbadian students’ perceived personal opportunity costs associated with pursuing UWI education?

RQ6 Do FSS Barbadian students perceive that GOBD incurs an opportunity cost by sponsoring their UWI education?

Our paper is structured as follows: Section one provides contextual information for the study and a brief literature review; section two explains the research methodology employed for the study; section three analyses and discusses the findings from this study, and the final section concludes the study by documenting the conclusions, implications for policy and practice, and limitations/suggestions for future research.

2. Understanding the Local Context

2.1 Overview of the Education System in Barbados

Barbados—a sovereign developing country—boasts one of the highest literacy rates (99.6%) globally (Central Intelligence Agency, 2014). This remarkable literacy accomplishment has been achieved as a result of successive government support/commitment to the education sector through substantial public subsidization of education (Griffith, 2001) including university education, and reflects the Government's priority in using education as a tool for social change (United Nations International Bureau of Education, 2014). The philosophy underpinning education in Barbados can be traced back to the early 1960s and is rooted in the belief that "every child should have educational opportunities of a kind which would allow him to make the most of his abilities and to contribute to the social and economic growth of the country" (Ministry of Education, Science, Technology and Innovation, 2000, p. 31).

Today, the Government’s commitment to free education for all Barbadians citizens at all levels of the social spectrum is embodied in its 2002 Education Policy Act, Chapter 41: ¶ 52 under the caption "Free Public Education" (Ministry of Education, Science, Technology and Innovation, 2002), documented in various Ministry of Education, Science, Technology and Innovation documents, and proudly displayed on various government websites, including, the website of the Barbados Tourism Encyclopedia (2014) which states "......the Barbados Government pays the cost of education of Barbadian students at primary, secondary and tertiary levels...." (¶ 1).

2.2 Government Policy Regarding UWI Fees for Barbadian Students

Barbados is one of the few countries globally where university education was free of cost to Barbadian citizens until the academic year 2014-2015. This allowed Barbadian students to simply register for courses at the UWI without having to necessarily note the breakdown of university fees or even the total amount that GOBD paid per student. This however changed on August 13, 2013 when it was formally announced in Parliament that students will be responsible for 20% of their fees.

Effective 2014 Barbadian citizens pursuing studies at campuses of the UWI will be required to pay tuition fees from academic year 2014/2015 while the Government will continue to fund economic costs. (Sinckler, 2013, p. 80)

GOBD noted that this policy had been necessitated as a result of the exponential costs of university education which Government could no longer sustain (Sinckler, 2013). Table 1 shows the revised UWI fee structure for students pursuing undergraduate degrees at the Cave Hill Campus.
A review of the literature reveals that although an abundance of scholarly literature exists on the returns to investment of university education (see Psacharopoulos & Patrinos, 2002; GOV.UK., 2010; PayScale, Inc. 2013), very sparse research actually exists that examines the extent of students' knowledge on the issue of "cost of university education". Moreover, as far as the researchers are aware, no published Caribbean research had been done to ascertain UWI students’ knowledge on this topic. The lack of global research on university students' knowledge on this topic may be partially explained by the fact that in many countries students cover their university costs by one or a combination of methods such as parental financial support, student loans (Bradford, 2013), student on or off campus work-study programmes (see U. S. Department of Education, 2013), or scholarships/financial aid awards (Council of Ontario Universities, 2012; GOV.UK., 2010; Greenburg, 2011). Furthermore, decisions to pursue university education are generally made long before actual admission to a university—usually during the students' senior year in high school. Thus, for many, it is at this stage that parents/guardians and students commence navigation of potential university choices and fill out applications (Own Your Own Future, 2014). The process of gathering information on university costs is generally accomplished by undertaking a substantial amount of individual personal research primarily through perusal of university websites which provide very detailed breakdown of costs, scholarship opportunities etcetera. Consequently, in light of the various methods aforementioned, both students and their parents/guardians in other countries generally become relatively knowledgeable about the full financial implications of university educational costs long before entry into a university.
Accordingly, the samples used in research conducted to date which examined knowledge/awareness on costs associated with university education were done using pre-university students and/or their parents/guardians—rather than actual university students (see George-Jackson & Gast, 2015). Notwithstanding, these studies will still provide useful and informative insight on knowledge/awareness of education costs in general which can be used as a reference for this study.

3.1 Knowledge and Awareness of Costs of Tertiary Education and Other Important Issues in Education

Several studies conducted globally that examined knowledge/awareness on various issues related to higher education noted that respondents were not very well informed and in fact had large gaps in knowledge. More specifically, researchers found that a substantial proportion of respondents (students and parents) were uninformed, poorly informed, and/or had very inaccurate ideas on the various issues investigated. Further, they either gave unrealistic answers or could not provide an answer.

The General Accounting Office (1990) synthesis of 18 studies indicated that both "students and parents knew surprisingly little about financial aid for higher education or the costs of post-secondary education" (p. 1). More recent work documents similar findings/concerns. For example, Horn, Chen, and Chapman’s (2003) study revealed that less than 15% of students and 30% of parents were able to estimate college costs. Their research noted gross under and over estimations by both students/parents (Grodsky & Jones, 2007). Aver and Kane (2004) and Perna (2004) documented similar concerns regarding inaccurate knowledge of college costs, as did The Stanford University Bridge Project, a six-year national study using 2,103 students/parents (Kirst, 2004). Research indicates that two primary reasons identified for the inadequacy in knowledge of tertiary education costs were information inadequacy (see Commission on the Future of Higher Education, 2006), and information complexity experienced by low income and minority groups (see Grodsky & Jones, 2007; Long & Riley, 2007).

McGuigan, McNally, and Wyness’ (2012a, 2012b) experiment in England on student awareness of costs and benefits of education decisions—effects of an information campaign, is however perhaps the most applicable study that can be used as a reference for this research. The experiment which coincided and was executed immediately after the Government’s announcement that students would be subjected to a fee increase in university fees created a public outcry which attracted considerable media publicity, particularly in light of a protest that involved tens of thousands of students and lecturers. The experiment sought to ascertain student knowledge and perceptions regarding tertiary education on five issues, namely, (1) knowledge of student finance, (2) perceived importance of financial constraint, (3) opportunity costs, (4) knowledge about the benefits of staying in education, and (5) future intentions. In light of timing of the experiment, the researchers also decided to examine the impact of media publicity on student knowledge and perceptions on the aforementioned issues. The sample comprised 54 of the 515 secondary schools in London and more than 12,000 students. The targeted population was Year 10 students in the age range of 14-15 (i.e., students who had one year more to complete their secondary education). The experiment was executed using a randomized control trial with two waves using the same participants in both waves. The students were surveyed using a 40-minute questionnaire executed under exam conditions. During the eight-twelve week period leading up to the second wave, the treatment group was given an information package that explained the costs/benefits of tertiary education; however, the control group was given the package only after completion of the second survey. The major finding from the research was that “there are substantial gaps in school students' knowledge of very basic facts about the costs and benefits of staying in education” (McGuigan, McNally, & Wyness, 2012b, p. 14). These gaps were evident on all five aforementioned research issues, with the gaps being substantial on Issue 1 (knowledge of student finance) where student knowledge at baseline was less than 50 percent. The researchers also noted that media reporting created a negative perception, namely, that university costs were quite expensive since it focused primarily on the fee increases. In contrast, an in-school education campaign effectively reversed some of the negativity created by the media by focusing on available financing options and repayment policies—rather than fee increases. Overall, the experiment found that the targeted information campaign improved student knowledge generally (e.g., student knowledge on Issue 1 improved by an average of 6.7%).

3.2 Are Higher Premiums Placed on Tertiary Education When Self-Financed?

Numerous debates have taken place globally on whether university education should be free. While many positive externalities undoubtedly accrue from free tertiary education such as a more educated and productive workforce which benefits society in general, societal equity of opportunity, and so on, questions are today being raised about whether continued free tertiary education is sustainable given our tough economic times and numerous competing claims on limited fiscal resources. An important question in this debate is whether students value education more when personally self-financed. Immerwahr's (2004) research for The National Center for Public Policy and Higher
Education revealed that approximately 74% of all respondents in four separate studies conducted between 1993 and 2003 (1993 = 76%, 1998 = 77%, 2000 = 74%, 2003 = 69%) felt that "students appreciate the value of a college education only when they have some personal responsibility for paying what it costs" (p. 9). Similar sentiments have also been expressed by Pettinger (2014) who noted that free university education tends to encourage students to take an easy few years of relaxation. Comparatively, when individuals self-finance their education, they generally tend to place a higher premium on the value of their education.

3.3 Opportunity Costs Associated with Tertiary Education

Historically, society has supported development of its citizenry through widespread availability and public subsidization of education at primary, secondary, and tertiary levels on the grounds that education is pivotal to human capital development in a country (Cohen, 2003; Department of Treasury, 2012) and that the public expenditure on education is adequately recovered over the longer term through higher tax revenues from the more educated, and savings on social services such as Medicare since educated individuals generally tend to make better informed health decisions (Organisation for Economic Co-operation and Development, 2012). The past two decades has however witnessed substantial changes to education policies globally, particularly at the tertiary level. These changes have been triggered by two major issues, namely, (1) fiscal pressures facing countries, coupled with numerous competing demands on the limited financial resources available, and (2) fundamental shifts in philosophical thinking that education of the populace provides high personal benefits which far outweigh societal benefits (Borland, Dawkins, Johnson, & Williams, 2000; Cohen, 2003; Department of Treasury, 2012). As a result of these policy changes, many individuals are today paying the full cost or at least partial costs of their tertiary education costs (Pettinger, 2014). Regardless of who pays the cost of tertiary education, the pursuit of tertiary education carries significant opportunity costs—pecuniary and non-pecuniary.

Numerous definitions abound for opportunity costs. The New Zealand Treasury (2005) defines opportunity costs as the "next best alternative that must be given up in order to take up the opportunity" (p. 15), HM Treasury (2007) defines it as "the value of the most valuable of alternative uses" (p. 33), while Encyclopedia of Management (2009) defines it as "the value of a forgone activity or alternative when another item or activity is chosen" (¶1). Although these definitions are quite neutral in that the word "financial" is not included in any of the definitions, most individuals tend to think of opportunity costs purely in financial terms. As such, much of the research that has been conducted on opportunity costs has tended to quantify opportunity costs in dollars and cents. For example, Abel and Deitz’s (2014) study which examined whether the benefits of college outweigh the costs found that despite rising costs and falling wages, the personal return on investment of a bachelor’s degree over a high school diploma was at least 15%. In computing the return on investment, direct costs (e.g., tuition fees) and opportunity costs (wages forgone as a result of full-time college attendance) were taken into account. In this study, opportunity costs were examined from the individual or private perspective, that is, the wages given up whilst attending college full-time. However, opportunity costs can also be considered from the societal or public perspective. For instance, Pettinger's (2014) article which examined both the pros and cons of free university education identified public opportunity costs as an argument against free education. In other words, when a country channels funds into tertiary education, less can be spent on other desirable social services. "The cost of higher education to government is the opportunity cost of public expenditure on it...the value of expenditure on the next best alternative" (Borland et al., 2000, p. 30).

In addition to the monetary opportunity costs which are given up when one pursues tertiary education which can be both private (lost earnings) and public (alternative use of a country's fiscal resources), there are other types of opportunity costs which are given up in the pursuit of the higher educational endeavor. These include forgone work experience whilst studying, and the activities given up in lieu of studies (Encyclopedia of Management, 2009).

4. Methodology

4.1 Sample

The sampling frame was undergraduate Barbadian students enrolled in the FSS, UWI, Cave Hill Campus. FSS was selected since it has the largest student enrollment (approximately 60% of total student population) at the University and the fee structure in this Faculty is similar to two other Faculties at the institution (see Table 1).

The sampling methodology employed was purposive sampling. One hundred and twenty-five students were selected but only 93 useable surveys were obtained. While this sample is quite small, it nonetheless exceeded the minimum sample size requirements needed for the statistical tests conducted. According to Harrison and Brady (2004) the normal approximation is acceptable if the sample size is at least 30. The sample comprised more females than males in keeping with UWI enrolment statistics.
4.2 Survey Instrument

4.2.1 Survey Demographics. The data collection technique employed was a self-administered questionnaire (Lavrakas, 2008). The instrument was administered to participants who were asked to complete it and return it at their convenience. The questionnaire comprised two sections. Section 1 dealt with the demographic characteristics of the respondents, namely, gender (male, female), age (<25, 26-35, 36-45, >45), current-status (full time vs. part time), and academic-status (Year 1, Year 2, Year 3).

4.2.2 Survey Questions. Section 2 comprised 11 questions aimed at gaining insight into students knowledge/awareness/perceptions on the following issues: UWI fees, obligation of GOBD to fund UWI education, student motivation to work hard at studies given the level of investment by GOBD, student motivation to work hard at studies if university education was personally self-financed, personal opportunity costs associated with UWI education, and GOBD opportunity costs. A mixed-item survey instrument was used (9 closed-ended questions and 2 open-ended questions). Five of the closed-ended questions (questions 1, 3, 5, 7, and 11) used a nominal measurement with Yes/No responses while the remaining four questions used a ratio measurement. Question 2 employed a five category interval scale using bands of $10,000 increments (<$10,000 to >$40,000) while Questions 8, 9, and 10 used a 10-point interval scale ranging from 1 (low) to 10 (high).

4.2.3 Reliability and Validity of Instrument. An extensive literature review was conducted prior to development of the survey instrument. Face validity and content validity of the questionnaire was established by asking three experts to review/comment on the instrument. The instrument's reliability was verified by conducting a pilot test using 20 similar respondents who were asked to identify poorly worded questions and/or imprecise instructions, and also by using the Cronbach's alpha test in Statistical Package for the Social Sciences (SPSS) using the guidelines provided by Pallant (2003).

4.3 Data Analysis

Quantitative data analysis was conducted using SPSS (Version 16). Data was analyzed using descriptive statistics, non-parametric tests, and parametric tests. In carrying out the various statistical tests, the researchers ensured that none of the assumptions pertinent to the statistical test in question were violated. Thematic analysis was used for all qualitative data in the study.

5. Results and Discussion

5.1 Sample Demographics

The sample comprised 75% females (Female n = 70, Male n = 23). Approximately 71% of the sample was under the age of 35 (<25 n = 47, 26-35 n = 19, 36-45 n = 15, >45 n = 11). Sixty-three percent of the students were part-time students (Full-time n = 34, Part-time n = 59) and the majority were final year students (Year 1 n= 14, Year 2 n = 8, Year 3 n = 70). This demographic profile is in keeping with the characteristics of the student population in the FSS.

5.2 Knowledge/Awareness on UWI Education Costs

With respect to RQ1, Table 2 shows that although 63% of our sample indicated that they knew how much it costs GOBD to finance their studies, only 36% actually selected the correct category of costs (> Barbados $40,000). Our finding is consistent with other research (see Avery & Kane, 2004; Grodsky & Jones, 2007; Horn et al., 2003; Kirst, 2004; McGuigan et al., 2012b; Perna, 2004) which show surprising knowledge gaps by respondents on the issue of tertiary education costs and gross under and over cost estimations similar to our respondents.

Table 2. Knowledge/Awareness on UWI Education Costs

<table>
<thead>
<tr>
<th>Question</th>
<th>Response</th>
<th>n</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Do you have any idea on how much it costs GOBD to fund your studies at the Cave Hill Campus?</td>
<td>Yes</td>
<td>56</td>
<td>63</td>
</tr>
<tr>
<td></td>
<td>No</td>
<td>33</td>
<td>37</td>
</tr>
<tr>
<td>2. If you had to estimate the cost that GOBD is paying, how much would you estimate that GOBD pays in Barbados dollars for a 3-year B.Sc. degree in the FSS?</td>
<td>&lt; $10,000</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>$10,000-$20,000</td>
<td>7</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>$21,000-$30,000</td>
<td>20</td>
<td>23</td>
</tr>
<tr>
<td></td>
<td>$31,000-$40,000</td>
<td>26</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>&gt; $40,000</td>
<td>31</td>
<td>36</td>
</tr>
</tbody>
</table>

*Correct Category
5.3 GOBD Obligation to Fund UWI Education

Regarding RQ2, Table 3 indicates that more than half of the sample (66%) were of the opinion that GOBD was under no obligation to fund their education. Our thematic analysis of the qualitative responses which asked students to provide a reason for their response on Question (3) indicates that the most common responses opinioned by students were: (i) tertiary education should be self-financed since benefits accrue to recipient (27%), (ii) education is expensive and fully-funded free tertiary education is no longer sustainable (11%), and (iii) GOBD can use its funds in others sectors (8%). Comparatively, the primary responses given for why GOBD should finance education were: (i) enhanced development of the Barbados economy (62%), and (ii) commitment made by the GOBD on attainment of independence to provide free education to Barbadian citizens (31%). Some verbatim responses are provided in Table 3 to support these interpretations.

Table 3. GOBD Obligation to Fund UWI Education

<table>
<thead>
<tr>
<th>Question</th>
<th>Response</th>
<th>n</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>3. Do you think that that GOBD is obliged to fund your education?</td>
<td>Yes</td>
<td>29</td>
<td>34</td>
</tr>
<tr>
<td></td>
<td>No</td>
<td>56</td>
<td>66</td>
</tr>
</tbody>
</table>

4. Please provide a reason for your answer in Question 3.

Yes—Government Has Obligation To Fund

- They are obliged to fund our education because it is essential to move us from a developing nation to a developed nation.
- Free education was introduced into Barbados so all who want to further their education can do that. So free education should continue. It will benefit the country.

No—Government Has No Obligation To Fund

- If a person wants to improve themselves they should not depend on government to do so.
- Whilst education is important, it is expensive. It is unreasonable for the government to be obligated to pay for all students given the current economic climate.
- The government is not obliged to fund education, there are other things they can do with the money.

5.4 Education Costs and Motivation

RQ3 and RQ4 sought to ascertain if there were differences in motivation when education was GOBD financed compared to when education was personally financed. According to our data in Table 4, 64% of our sample indicated that they would be motivated to work harder at their studies given the knowledge that GOBD invested approximately $104,000 in their education. This contrasts with 80% of our total sample who indicated that they would be motivated to work harder at their studies if education was personally self-financed. The higher motivation levels when education is personally self-financed compared to when education is GOBD financed (80% vs. 64%) is consistent with the literature which indicates that individuals generally place a higher premium on education services which are funded from their own pockets (see Immerwahr, 2004).

Table 4. Education Costs and Motivation

<table>
<thead>
<tr>
<th>Question</th>
<th>Response</th>
<th>n</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>5. GOBD pays approximately $104,000 for each Barbadian student for an under-graduate degree in FSS. Now that you know the cost for your degree would you be motivated to work harder and get a better class of degree?</td>
<td>Yes</td>
<td>54</td>
<td>64</td>
</tr>
<tr>
<td></td>
<td>No</td>
<td>30</td>
<td>36</td>
</tr>
<tr>
<td>6. Suppose you had to fund your UWI education yourself and pay what GOBD pays, would you be more motivated to work harder and get a better class of degree?</td>
<td>Yes</td>
<td>70</td>
<td>80</td>
</tr>
<tr>
<td></td>
<td>No</td>
<td>17</td>
<td>20</td>
</tr>
</tbody>
</table>

Thematic analysis of the qualitative responses on Question 7 which asked students to provide a reason for their answer in Question 5 highlight that the two most common reasons expressed for increased motivation to succeed when education is GOBD financed were: (i) opportunity not afforded to many persons (23%), and (ii) don't want to waste Government's money (22%). Comparatively, the most frequent reasons provided for not being motivated when
education is GOBD financed were: (i) difficult given competing claims on personal time (18%), (ii) not my money—don't really care (10%), (iii) part of our education history—Government's responsibility (8%).

5.5 Personal Opportunity Costs Associated with UWI Education

RQ5 examined students’ perceived personal opportunity costs associated with pursing UWI education. Opportunity costs were defined as "the cost of a forgone alternative". Regarding lost income, Table 5 shows that 59% of our sample chose a response greater than 5. Interestingly, females tended to associate higher opportunity costs with lost income (Females = 66% vs. Males = 44%). This may be because women globally are today becoming increasingly important contributors to household income (Safa, 1995; Schulte, 2013) and in fact many females are now the sole breadwinners in their households (Glynn, 2012). Concerning lost time with family/friends, Table 5 indicates that 76% of our sample chose a value greater than 5. On this question, younger students (<25 years) tended to select higher scores (8-10). These findings appear quite logical and reasonable since younger adults would generally have less demanding responsibilities compared to older adults. This means that they would have more free time available some of which would have to be given up when studies commence. Finally, on the issue of lost leisure, Table 5 shows that 60% of our sample chose a response greater than 5. Similar to the previous question, younger students viewed lost leisure opportunities associated with studies as a greater sacrifice compared to older students.

The aforementioned findings, namely, that our sample of FSS students associate opportunity costs with lost income, lost time with family/friends, and lost leisure opportunities, are quite consistent with the literature. Abel and Deitz (2014) note that wages forgone whilst pursuing full-time tertiary education is an important consideration in the return on investment computations of tertiary education endeavours while the Encyclopedia of Management (2009) notes that opportunity costs are associated with activities that must be given up in lieu of studies.

Table 5. Personal Opportunity Costs (Measured on a Scale of 1-10)

<table>
<thead>
<tr>
<th></th>
<th>n</th>
<th>% Responses &gt;5</th>
<th>Mean</th>
<th>Standard Deviation</th>
<th>Mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q8. Lost income</td>
<td>46</td>
<td>59</td>
<td>6.46</td>
<td>3.08</td>
<td>10</td>
</tr>
<tr>
<td>Q9. Lost time with family and friends</td>
<td>69</td>
<td>76</td>
<td>7.23</td>
<td>2.70</td>
<td>10</td>
</tr>
<tr>
<td>Q10. Lost leisure opportunities</td>
<td>73</td>
<td>60</td>
<td>6.33</td>
<td>2.68</td>
<td>5</td>
</tr>
</tbody>
</table>

5.6 Opportunity Costs Incurred by GOBD

Our final research question examined whether students perceived that GOBD incurred opportunity costs by sponsoring UWI education. According to our data, 68% (Yes n = 54, No n = 25) of our sample expressed that GOBD incurred an opportunity cost by financing UWI education. Our findings therefore concur with the literature (see Borland et al., 2000; Pettinger, 2014) and suggest that most Barbadian students appreciate that GOBD can use its funds for alternative ventures.

6. Conclusion

6.1 Major Findings

Our exploratory study on students’ knowledge/awareness of various facets of costs associated with their UWI education and student perceptions of State funded education revealed no statistically significant findings on our Chi-Square and ANOVA tests on any of our demographic variables. Notwithstanding, our descriptive statistics provide rich insight on FSS student perceptions/thoughts on this topic. Our major findings were: (1) less than 40% of our sample of FSS Barbadian students could correctly approximate the true costs of their UWI education, (2) more than 60% of our sample opined that GOBD was under no obligation to fund UWI education, (3) 16% more of our sampled expressed that they would be motivated to work harder at their studies when education is personally self-financed compared to when it is GOBD financed, (4) more than 50% of our sample associated personal opportunity costs with lost income, lost time with family and friends, and lost leisure opportunities, and (5) 68% of our sample felt that GOBD incurred an opportunity cost by financing UWI education.

6.2 Implications for Policy and Practice

Given our findings, a multifaceted harmonized approach between GOBD, UWI administration, and the Barbados media is required to properly educate and sensitize Barbadian citizens about the true costs of a UWI education. This is particularly important since many Barbadians will now have to source loans to finance the now mandatory 20% tuition fees. Any education/publicity strategy should focus not only on pecuniary costs—but also on the benefits to be derived
from a bachelor’s degree in education. In other words, the return on investment of a bachelor’s degree needs to be emphasized so that Barbadians can make informed decisions.

Our data indicated that part of our sample expressed that having knowledge of the costs paid by GOBD for their UWI education did not serve as a motivator for some students to work harder at their studies. Additionally, some students expressed that GOBD did not incur an opportunity cost by financing UWI education. In light of these findings, it may be necessary for GOBD to run some short Government Information Service bulletins to help Barbadians to appreciate that education comes at a price and that GOBD has numerous competing priorities and will often need to make tradeoffs between education and other priorities. This is important because although GOBD will no longer pay 100% of UWI education fees, the 80% that will be GOBD financed still has high associated opportunity costs for the Government.

Finally, although GOBD implemented the tuition policy because of numerous completing priorities for its limited financial resources, GOBD may need to commission a study to examine how the 20% savings by GOBD equates against the pecuniary and non-pecuniary benefits that will be lost to society from fewer university graduates to gauge the overall net effect of this decision.

6.3 Limitations of Study and Suggestions for Future Research

The researchers acknowledge that since our sample was purposive and selected from the FSS, that our findings are not necessarily generalizable to the wider UWI student population. Notwithstanding, our study is still very important and useful since it has contributed to the existing body of literature on the topic of knowledge/awareness of educational costs by providing additional evidence from a new policy context and a new sampling frame—UWI. Moreover, our study now provides better understanding on an important phenomenon of interest to many policy stakeholders in Barbados including UWI administration and GOBD. It also provides a useful foundation for future research on this topic at the UWI.

In light of the limitation of this study, it is recommended that future research on this topic use a random sample from the full UWI student population to permit generalization to the wider UWI, Cave Hill Campus student body. Important insight could also be gleaned by stratifying the student population by gender, age, and academic status to see whether these three demographics make a difference to students’ knowledge and perceptions. Finally, it would be interesting to conduct this research at the other two campus locations in Jamaica and Trinidad and Tobago to observe if there are differences in knowledge/awareness/perceptions among the three campus locations.

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