

Education Quality of Best Public High Schools in South and Central Somalia

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Abstract

Purpose: The purpose of this study was to explore what nine high school principals did to outperform other schools in the South and Central regions of Somalia. The study highlighted the high school principals' perception of maintaining education quality concerning curriculum, instruction, and assessment. The study focused on the admission process, teaching, and learning performances of the top nine high schools in South-central Somalia.

Design/Methodology: The methodology of this Qualitative research was descriptive phenomenology. The research design and approach were semi-structured open-ended interview protocol that comprised eight interview questions. Purposeful sampling was the sampling method. Nine principals participated in the study and provided the research data regarding the education quality of nine high schools in Somalia.

Findings: All nine principals in this study maintained their high schools' education quality using a rigorous admission process. They utilized a government-developed official curriculum. Five principals reported that they employed specialist instructors, while six stated that their students actively participated in the learning process during class time. However, all the participants reported that smartphones hindered student learning. A slight majority of five principals (56%) stated that parental interventions were vital to schools' overall learning achievements.

Implications for practice: Somalia's public schools are far behind in utilizing effective educational technology. The technological literacy of the teachers is vital to effectively employ the accessible educational technology, which encouraged students to incorporate modern technologies in their learning activities successfully. Rigorous admission process, efficient curriculum, instruction, effective instructional materials, employing professional instructors, and active learning are all important components to maintain education quality.

Key words: quality of education, curriculum and instruction, assessment, active learning

Introduction

Since the collapse of the state, Somalia's government-run education system failed. A power vacuum left from the downfall of the government in January 1991. The country split into warring factions (Bakonyi, 2009). The state-run institutions and privately owned properties were overly robbed. The education sector collapsed for the wide-scale destruction. School administrators, teachers, and students were displaced or killed (Abdinoor, 2008). Hence, Somalia's literacy rate, which in the 1970s reached a record high of 55 percent (Abdi, 1998), sharply dropped after the regime's fall (Anagnoste, Agoston, & Draghici, 2009). Thus, the quality of education descended to the world's bottommost nations (African Press Organization, 2011). For the above reasons, only 26.5 percent of high school-aged youths are at high school (UNICEF, 2018). The present study explores the quality in the education of best high schools in South and Central Somalia regarding curriculum, instruction, and assessment.

Background

This study explores what assisted the best nine high schools in South and Central Somalia to outpace other high schools in these regions in the 2019/20 schoolyear regarding curriculum, instruction, and assessment. The three most significant and interconnected aspects of education are curriculum, instruction, and assessment (Pellegrino, 2006). Curricula ensue from a procedure that mirrors societal agreement about what, why, and how of education, which is desirable for the society in the future (Tedesco et al., 2014). McPhail (2018) stated that bringing many subjects concurrently in teaching and learning is known by different names. The curriculum is the one that we use in this article. The curriculum encompasses the subjects' knowledge and abilities that instructors teach, and students must learn (Pellegrino, 2006). Citing Young and Muller (2013) and Delors (1998), McPhail and Rata (2015) stated that there are two curriculum design types, which are Powerful Knowledge and 21st Century Learning.

According to previous research (Maton & Moore, 2010; Muller, 2000; Young, 2008), the Powerful Knowledge curriculum grounds on a very broadly based research program. This curriculum type follows the Durkheimian social realist method, which focuses on understanding how knowledge production and reproduction happens (McPhail & Rata, 2015). McPhail and Rata posited that 21st Century Learning states a social justice purpose, reasoning that the significance of skills and adaptable dispositions method will augment opportunities, especially for those from marginalized communities. The 21st Century model did not regard that education is sufficiently receptive to a complex, globalized world in which skills, critical thinking, adaptability, and creativity will be more significant than knowledge by itself. We are not sure of which type of curriculum design the Somali ministry of education used to prepare the 2019 curriculum. Johnson (2001), cited in Alsubaie (2016), stated that curriculum preparation could be complex; therefore, the involvement of all stakeholders, especially individuals who are directly involved in student instruction, is paramount to its successful production and reconsideration.

The curriculum development to be efficacious, and for schools to be fruitful, it is significant to involve teachers in the development process (Alsubaie, 2016). Alsubaie stated that curriculum development is a process in which fulfilling student requirements guides student learning

enhancement. However, in post-civil war Somalia, researchers of this study could not identify whether teachers were involved in the curriculum development stages. Somalia ministry of education adopted in 2019 a new public-school curriculum, which is the first of its kind in three decades.

A controlling entity should check the quality of the curriculum (Shakespeare & Hutchinson, 2007). In Somalia, the controlling body can be the education ministry or an independent advisory board that provides the necessary guidance to the ministry of education. The evaluation of a curriculum's quality must be against specific quality standards (Khan et al., 2019). Curriculum assessment is a method of collecting and analyzing data from various sources to enhance student learning in sustainable means (Wolf et al., 2006). Once the curriculum is outlined and approved, the task moves to the instruction.

Instruction is the teaching approach and the learning actions teachers use to help students grasp the content and the goals detailed in a curriculum (Pellegrino, 2006). Teachers face five tasks when implementing a curriculum: "coverage, mastery, management, positive effect, and evaluation" (Posner, 2007, p. 192). Teachers espouse better learning because they have the knowledge and experience of teaching, and society trusts them for presenting the curriculum in the classroom (Asubaie, 2016). Teachers must cover the program's components, such as contents, skills, and objectives. They must ensure that students learn the topics at least at some minimal level of understanding. Learning is more significant if the providers structure it around concepts germane to students and the world beyond school (Boyd & Hipkins, 2012). Besides the coverage and mastery tasks, teachers need to focus on managing the classroom and the students. This task can be accomplished by engaging students positively toward the subject matter in the class. Along with quality curriculum and instruction, assessment is the third most significant aspect of education.

The last task for teachers to achieve is to evaluate students' progress and what kinds of topics students must be held accountable for learning (Posner, 2004). The assessment refers to how teachers use it to ensure that students understood the curriculum's contents (Pellegrino, 2006). In Somalia, teachers assess secondary school students' level of educational performance for the first three years. However, assessment comes from the education ministry as a centralized exam that all Somali students must pass to achieve a secondary school leaving certificate at the end of the fourth year. Pellegrino (2006) stated that out-of-date theories base the curriculum, instruction, and assessment and not inline the modern educational system. There must be an alignment of the three education aspects discussed earlier, which means that they must be directed towards the same goal and enforce each other instead of aiming at different purposes (Pellegrino, 2006).

Methodology

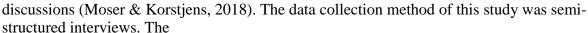
The purpose of the current study is to explore what helped Somalia's best nine high schools outpace other high schools in South and Central regions in the country in the 2019/20 schoolyear regarding curriculum, instruction, and assessment. The present study's methodology is phenomenology, which scholars defined as a philosophy, a research paradigm, a method, and associated with qualitative research (Anosike et al., 2016). Phenomenology is a qualitative

method in which researchers aim to create new understandings of peoples' lived experiences (Gentles et al., 2015).

We selected this approach because it concerned the principals of ten schools' lived experiences, which became the top high schools in the 2019/2020 school year in South and Central Somalia. Unlike methods, which is how a researcher undertakes the study, methodology speaks about the

research methods' idea: why did the researcher select interviews, surveys, observation, audio recordings, or get the participants to draw pictures? (Tai & Ajjawi, 2016).

The information gathering methods, which researchers use more often in qualitative inquiry, are participant observation, interviews, and focus group



sampling method of this investigation was purposeful



Al Anwar High Scool in Garboharay, Jubbaland, Somalia

sampling. Data saturation occurred after all nine participants' interviews finished. The participants' selection criterion was their knowledge and experience of achieving the top nine secondary schools in South and Central Somalia in 2019/2020. Before conducting interviews, the interviewer built a good rapport with the participants, described the investigation's purpose and the interview time to the interviewees. A telephone interview was the data collection strategy because the researchers and the participants lived in different countries. Each interview lasted between 30 to 60 minutes.

According to the Ministry of Education, Culture & Higher Education (2020) press release, Table 1 shows school name, school location, school ranking, and average test scores of each school.

Table 1
Hight Schools with Ranking and School Average Points

| Schools | School Location | Ranking | Ave. Test Scores % |
|-------------------|------------------------|---------|--------------------|
| Afmadow | Afmadow - Jubbaland | 5 | 84.12 |
| Al-Anwar | Garboharey – Jubbaland | 1 | 86.78 |
| Al-Qalam | Baydhabo – SouthWest | 7 | 81.33 |
| Amiir Nur | Garboharey - Jubbaland | 2 | 85.97 |
| Luq Ganane | Luuq – Jubbaland | 3 | 85.19 |
| Macruuf | Baydhabo - SouthWest | 6 | 81.43 |
| Markabley | Baardhere - Jubbaland | 4 | 84.44 |
| Omar Bin Abdiaziz | Guriceel - GalMudug | 8 | 80.98 |
| Salahudin | Baydhabo - SouthWest | 9 | 80.84 |

The interviewer used open-ended questions to gather information from the principals. The interview included opening questions about the respondents' background, such as their profession and education levels. The interview protocol comprised eight questions, and the interviewer refined the questions through pilot testing.

The numbering of all data was a chronological order of their occurrence (Neutens & Rubinson, 2010). The participants answered different types of questions regarding their high school assessments. Questions regarding the types of evaluations included placement and performance assessments before they join the new schools. It also contained bimester and quadrimester formative reviews to examine the students' learning progress during the school year. The schools conducted summative assessments at the end of the instruction to assess how they achieved the desired objectives and the learning goals. The interviewer used phenomenological bracketing and reduction to diminish the possible researcher biases or impact of his previous knowledge on the participants' responses to the data collection and analysis stages.

During the data analysis, we used Giorgi's (1975) four-stage information analysis model. This model involves: Reading through the transcripts several times to gain a comprehension of the whole. Establishing the natural meaning units as the participants describe them. Cross-examining the meaning units in terms of the precise aim of the study. After recognition of the themes, incorporating the essential nonredundant concepts into a descriptive statement. Giorgi (1975) recommended that the researcher must read the transcript recurrently while employing phenomenological reduction. Eight themes emerged after coding and categorization of the data. The descriptive statements of the essential nonredundant themes are in the below section.

Research Findings

The following primary research question guided the present study: What helped Somalia's top nine high schools outperform other high schools in South and Central Somalia in the 2019/20 school year regarding curriculum, instruction, and assessment? Eight main themes emerged from the qualitative data analysis (See Table 2): a) rigorous admission process, b) operational curriculum, c) effective instructional materials, d) professional instructors, e) active learning, f) modern technology obstacles, g) routine assessments, and h) school management and parental intervention. These themes are the themes that five participants or more agreed-upon qualify to include in the final list.

Table 2
Final Themes with Supporting Participants

| Themes | N | % |
|---|------|---------|
| Rigorous admission process | 9 | 100 |
| Employing operational curriculum | 9 | 100 |
| Effective instructional materials | 9 | 100 |
| Modern technology obstacles on student learning | 9 | 100 |
| Routine assessments | 9 | 100 |
| School management and parental intervention | 9, 5 | 100, 56 |
| Active learning | 6 | 67 |
| Professional instructors | 5 | 56 |

Theme 1: Rigorous Admission Process

The qualitative data findings indicated that all school principals (100%) interviewed in this qualitative study maintained their high schools' education quality by accepting only students who completed registered primary and middle schools and transfer students from similar high schools. The respondents reported that students could only transfer from government-registered high schools. The participants reported more categories associated with the rigorous admission process theme, such as taking a placement test, transfer students should bring report forms, and no admission to students who fail the placement test.

Eight school principals, or 89% of the participants, reported that students who transferred from other registered schools should take an assessment test before acceptance, i.e., the assessment test determined whether transfer students could join the high school or not. They stated that their high schools prepared an assessment exam for high school transfer students. If students failed the assessment exam, they were not allowed to join their schools. But transfer students who passed the assessment test could join their high schools. Also, six participants, or 67% of the school principals, stated that transfer students must bring school report forms for the admission process.

Theme 2: Employing Operational Curriculum

Nine principals (100%) posited that they utilized a government-developed national curriculum. Eight principals (89%) noted another significant category associated with education quality based on curriculum was an effective official curriculum. They stated that the Ministry of Education of the Federal Government of Somalia introduced a new curriculum in the 2019/20 schoolyear. They taught history and geography courses in the Somali language; English was the language of science courses. Arabic was the medium for some subjects.

Eight school principals, or 89% of the participants, reported that the official curriculum was effective and compatible with their schools' instructional requirements. They stated that the current official curriculum was effective and addressed its educational needs for a unified national curriculum. It was a well-balanced curriculum, which was compatible with instructional needs. Participants reported that students were happy with the newly developed official curriculum.

Theme 3: Effective Instructional Materials

Nine principals (100%) asserted that they based their high schools' education quality on schools' basic instructional supplies, i.e., textbooks, blackboards, and chalks. Other significant categories associated with education quality based on instructional materials included projectors, which six principals (67%) reported they used in addition to the essential instructional resources. Five principals (56%) asserted that computers were included the instruction materials.

P 7 stated that his school used blackboards, chalks, and a projector, which teachers sometimes used for practical lectures. He reported that his school had computers occasionally for only high school students, adding that all schools employed blackboards and chalk as the fundamental materials to educate students.

Theme 4: Professional Instructors

Five principals, or 56% of the interviewees, stated that they employed specialist instructors. The narrative these principals asserted was that they managed their schools voluntarily for many years and not received any form of assistance from governmental or non-governmental organizations. They said that their schools' policies were to hire only specialist teachers and teachers with significant experiences for the courses they taught. They posited that their teachers were specialists except for one or two highly experienced longtime instructors. However, four participants, or 44% of the principals, stated that their high schools had a mixture of generalist and specialist instructors.

Theme 5: Active Learning

Nine principals (100%) interviewed in this investigation asked students questions during class time about the subject matter. However, six principals (67%) stated that active learning was another significant category where students participated in the learning process during class time. All participants reported that their schools' teaching methods included asking students oral questions during classroom time. They posited that their schools' teaching and learning process to transmit knowledge was student-centered. Teachers and students worked together by sharing knowledge. Also, six (67%) school principals reported that students were active learners who participated in class activities as part of their high schools' teaching methods.

Theme 6: Modern Technology Obstacles on Student Learning

All principals (100) reported that mobile and smartphones hindered student learning. Seven participants (78%) stated mobile and smartphone prohibition in schools as a category, and their schools confiscated mobile and smartphones. Five principals (56%) of the participants indicated that social media hurt student learning.

Nine principals (100%) stated that mobile and smartphones negatively influenced students' learning, i.e., these technologies hindered students' learning. They asserted that their schools focused on good behaviors. Most of the schools prohibited mobiles and smartphones. If students bring mobiles and smartphones to school, teachers confiscated them and gave them to parents. Eight school principals (89%) stated that they prohibited mobile and smartphones in schools. Five participants (56%) reported that their schools confiscated smartphones and mobiles found with students in the schools, and five school principals (56%) stated social media negatively affected students' learning.

Theme 7: Routine Assessments

All school principals (100%) performed teaching and learning assessments of their high schools by administering midterm and final exams. They reported their schools issued midterm examinations within four months from the beginning of the school year and final exams at the end of the school year. They stated their schools administered monthly exams as a routine formative assessment, which helped them assess students' performance levels in the past month. They took midterm exams to evaluate school performance levels and their learning performance for the past four months. They administered final exams as summative assessments at the end of the school year.

Eight principals (89%) stated they administered monthly exams. Teachers asked students in the classroom routine oral questions about the lectures. They noted that the teachers routinely asked students oral questions as part of assessments. Teachers collected verbal questions from the contents of the courses.

Theme 8: School Management and Parental Intervention

All participants (100%) stated that they maintained their schools' education quality through management intervention. They posited that the high school administration routinely evaluates the performance levels of the schoolteachers. Besides, five principals (56%) stated that parental intervention positively contributed to their overall learning activities. They reported that the school administrators encouraged parental involvement in students' learning activities.

Discussion

The authors attempted to explore what Somalia's top-ranking high schools in South and Central had in common to outperform other high schools in that region in the 2019/20 school year concerning curriculum, instruction, and assessment. Assessing transfer students before their admissions confirmed what was in the literature of the high school admission process. Jacob (2005) found that introducing assessment tests for students who transfer to higher grade levels boosted students' learning achievements, i.e., these evaluation exams positively impact students' learning success. Hence, our results affirmed that assessment tests within the admission process were vital to maintaining the high schools' education quality in the present study. Admitting to high schools only those students who formally and completed primary and middle schools were central to maintain the education quality of the high schools, as showed by the results of this study. Besides, employing an effective curriculum by the high schools was key to productive learning outcomes through which principals successfully maintained the quality of education. The statement is consistent with previous research finding where Fix et al. (2019) studied teachers' and students' positions on effective curriculum. The researchers found that an efficient curriculum that values and respects students' social and emotional learning is vital to successful educational achievements. Brink and Bartz (2017) stated that a variety of curriculum resources equipped with their research participants to meet students' needs better and enhance mastery of learning objectives.

Most of the high school principals in this study employed subject-matter specialists who they described as crucial to their high school success. This finding is consistent with a research conclusion by Ardzejewska, McMaugh, and Coutts (2010), where most principals in their study used subject-matter specialists whose knowledge was essential for teaching school subjects. Hennsse (2000) reported that specialized schoolteachers bring greater self-confidence to the classrooms. Wilson, Macdonald, Byme, Ewing, and Sheridan (2008) found that specialist instructors used their specific experiences to empower students to learn course contents effectively. According to Ojukwu (2016), factors causing students' poor performances in schools include teachers' qualifications, their method of instruction, their teaching experience, and their lack of using practical instructional resources.

This study also explored the instructional materials of the high schools. The current study participants acknowledged the importance of teaching resources to maintain education quality to improve students' learning capacity. That is in line with a previous study finding where teaching resources could make students enhance their learning performances (Adelowo, 2015). Our study results showed that the high schools used basic teaching materials, including blackboards, chalks, and textbooks, to support learning. Zhonggen (2019) argued that modern technologies could advance education. Educational technologies such as videos, online recordings, presentations, and typing could deliver knowledge more efficiently. However, differing results exist in the effectiveness of the basic and the modern teaching instruments, including videos, displays, blackboards, chalks, projectors, and online open technologies (Evans, 2014). Schools need support with appropriate instructional materials critical to increasing instruction effectiveness (Çakir, 2015). Hence, our study results suggested that more than half of the study participants reported their high schools used projectors and computers, and other essential instructional resources.

The concept of active learning is an option to traditional education (Waniel & Nae, 2017). Unlike teacher-centered learning, students collaborate in student-centered learning. The present study participants admitted that students' active learning was a crucial part of the high schools' teaching and learning techniques. However, they acknowledged that modern technologies disrupted students' active learning, i.e., smartphones and social media impact students' capacity to engage in learning actively. Nonetheless, our results indicated that teachers empowered students to participate in class activities actively. McGreevy and Church (2020) reported that teaching with active learning among students leads to students focusing more on the lesson. This finding is consistent with a previous result (Brigati, England, & Schussler, 2020) where, as part of active learning, all study participants reported schoolteachers routinely engaged with students by, for instance, asking oral questions about the lectures. Auerbach and Schussler (2016) classified class activities as part of students' active learning. Instructors explicitly ask students to actively engage in the learning process, i.e., class discussions and answering teachers' oral questions. Best practices in active learning help students to engage in course discussions so they can learn from each other (American Association for the Advancement of Science, 2011).

Modern technologies enable learners a wide variety of learning activities and informal learning experiences (Khaddage, Müller, & Flintoff, 2016). Technologies provide prospects for learning new skills and offer new approaches to learning traditional experience (Sefton-Green, 2004; Uden, 2007). In contrast with these statements, our study results showed that smartphones, mobiles, and social media hindered student learning. While we did not explore the use of these modern technologies in education by the schools, our study participants unanimously reported that their high schools spent a significant amount of time on social media and smartphones. We believe students were not encouraged to use technologies to advance learning effectively. We assume that the schools in our study lacked the expertise and the knowledge to successfully employ educational technology skills to minimize the negative influence of smartphones, mobiles, and social media on students' learning.

Assessments are essential for teachers' and students' teaching and learning performances (Vlanti, 2012). Formative assessments (FA) conducted at earlier stages of instruction can guide lesson planning and subsequent evaluations. Instructors apply FA to develop effective instruction and assessment tools that satisfy student learning needs (Vlanti, 2012). FA improved students' learning outcomes, and its introduction into everyday school practice is significant (Babinčáková, Ganajová, Sotáková, & Bernard, 2020). Srivastava et al. (2018) found that FA helped examine the students' learning performance in university students' research. The researchers reported that FA significantly improved students' learning outcomes. In line with the above statements, our results show that the high schools maintained the education quality by conducting monthly and midterm exams to improve student learning outcomes. The study participants unanimously reported routine final exams as a summative assessment to retain the quality education of the schools.

Implications for Practice

The current study's focus was to address the quality of education in public high schools in Somalia as a whole. Hence, we investigated the top nine public high schools' education performance in the South and Central regions of the country. The findings of this study could help the education community in Somalia find ways to effectively boost education quality regarding teaching and learning activities in public and private schools.

Accordingly, the current study provides empirical data on the benefits of employing a rigorous admission process, operational curriculum, adequate instructional resources, and professional instructors. The data is essential to develop the quality of education by integrating a well-organized system of teaching. This study identifies the need for technological literacy among public schoolteachers to effectively educate students by utilizing accessible educational technology tools such as smartphones, mobile phones, and social media. The study showed how these technologies hindered students' learning activities rather than helping. Educators may need to encourage students to incorporate modern educational technologies with learning activities in and outside classrooms.

Finally, the findings of this study suggest that robust assessment routines are vital to maintaining education quality. The results could explain how educators should routinely use formative and

summative assessments to ensure the teaching and learning goals. The study findings also underlined the significant role of parent contributions to students' learning, i.e., educators can rely on parents' positive involvements in student learning outside classrooms.

Limitations

There are few limitations to the present study: The base of the research data was on participants' responses. Therefore, the researchers had no control over how honestly participants respond to the questions from the interview. This study did not investigate the education quality of the outpaced high schools in South and Central Somalia. Hence, future research may need to compare the education qualities of different high schools in these regions and Somalia. Data from one of the top-ranked high schools were missing due to the inaccessibility of the school principal at the time of this study and the recruitment venue.

Recommendations

This study is unique, and to our knowledge, no one explored this topic before in Somalia. This investigation contributes to the literature by highlighting how schools in remote areas, which have limited resources, can become the top nine high schools in South and Central Somalia. Therefore, several opportunities exist for future research to explore their impacts on the quality of education in the country.

The participants of this study stated that they switched to the new Ministry of Education's curriculum as soon as the Ministry of Education introduced it. Further research on how a change of curriculum affected the students' learning capacity and whether it had any psychological effects or not is necessary. The country's number one ranked high school provided laptops to students, and it is not clear whether that technological factor boasted the students' learning abilities. Further studies on the effects of the technology factor are necessary. The participants indicated that they had rigorous placement tests and vetting processes before new students join in their high schools. Whether the quality of intrusion is the main factor of the schools' achievements or the students' participation and efforts is the success factor needs further research. The effectiveness of the new official curriculum compared to the curricula, which private schools follow also needs proper investigation.

Conclusion

The current study contributes to the quality of education in Somalia by looking into relevant data from the top nine high schools in the country's South and Central regions. This study attempted to examine what facilitated those schools to outpace other high schools in the 2019/20 school year. The study results can be a good foundation from which future research can probe what factors can improve the country's quality of education and the factors that may hinder productive learning. The findings of this study support the existing literature on the quality of education.

In a world where technology is essential to enhance learning, as shown in this study's results, Somalia's public schools are far behind in utilizing effective educational technology. The teachers' technological literacy is vital to effectively employ accessible educational technology,

which can encourage students to integrate modern technologies in their learning activities successfully. Contrariwise, the findings of this investigation revealed how smartphones with internet connections hindered the quality of education rather than utilizing them for learning purposes. Rigorous admission process, efficient curriculum, instruction, effective instructional materials, employing professional instructors, active learning in and outside classrooms, routine assessments, and school management and parental intervention were the key findings in this study to maintain education quality.

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